AGENDA

REGULAR MEETING OF THE BOARD OF COMMISSIONERS VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VVWRA) Victorville City Hall – Conference Room "D", 14343 Civic Drive, Victorville, CA 92392

Phone: (760) 246-8638

MEETING DATE: Thursday, March 15, 2018 TIME: 8:00 AM (Closed Session)

8:30 AM (Regular Session)

CALL TO ORDER

PUBLIC COMMENTS - CLOSED SESSION AGENDA

CLOSED SESSION

<u>CLOSED SESSION</u>: During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chair may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted. Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; or (c) employment actions, or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on

CONFERENCE WITH LEGAL COUNSEL- (Gov. Code Sec. 54954.5-54956.9(d)):

any of these subjects, the minutes will reflect all required disclosures of information.

- 1. Flow Diversion
- 2. Potential Litigation-Claim against City of Hesperia

CONFERENCE WITH LEGAL COUNSEL-POTENTIAL LITIGATION (Gov. Code Sec. 54956.9(d)):

- 3. Threatened or Pending Litigation- Upper Narrows Project
- 4. Threatened or Pending Litigation- Subregionals

CONFERENCE WITH LEGAL COUNSEL-REAL PROPERTY NEGOTIATOR (Govt. Code Sec. 54956.8)

5. Agency Negotiators: Logan Olds, General Manager; Piero Dallarda, Best Best Krieger Negotiating Party/Parties: Anaergia, Arun Sharma Under Negotiation: Real Property

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

REPORT FROM CLOSED SESSION

PUBLIC COMMENTS - REGULAR SESSION AGENDA

ANNOUNCEMENTS AND CORRESPONDENCE:

- 6. Possible conflict of interest issues
- 7. Article: OC Agencies set Guinness World Record Title for Most Wastewater Recycled into Drinking Water in 24 Hours
- 8. Staff Introductions- New Hire

CONSENT CALENDAR:

- 9. Approve February 2018 Disbursement Registers
- 10. Approve Minutes from the February 15, 2018 Regular Meeting
- 11. Recommendation to Ratify Low Voltage Power Emergency Purchases

ACTION & DISCUSSION ITEMS:

- 12. Request Permission to Enter Into a Maintenance Service Agreement With Wastewater Solids Management
- 13. Spring Valley Lake CSD Exploratory Group
- 14. Recommendation to Request Additional Funding For the Professional Services of Dr. Almgren to Perform an Analysis of the Financial Impact of Flow Diversion
- 15. Recommendation to Approve Resolution 2018-02: To Amend Billing Percentages and Approve Flow Billing Adjustments Relating to the Flow Monitoring Results as Measured by ADS Environmental Services, Inc.
- 16. Recommendation to Approve Change Order No. 7 For the Hesperia Subregional
- 17. Recommendation to Approve Change Order No. 8 For the Apple Valley Subregional
- 18. Recommendation to Approve Amended MWH Contract

STAFF/PROFESSIONAL SERVICES REPORTS:

- 19. Financial and Investment Report February 2018
- 20. Operations & Maintenance Report February 2018
- 21. Environmental Compliance Department Reports February 2018
- 22. Septage Receiving Facility Reports February 2018
- 23. Safety & Communications Report February 2018

NEXT VVWRA BOARD MEETING:

Thursday, April 19, 2018- Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Leave Policy

COMMISSIONER COMMENTS

ADJOURNMENT

Agenda Posting: In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the Authority's Administrative offices not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the Board Secretary.

<u>Items Not Posted</u>: In the event any matter not listed on this agenda is proposed to be submitted to the Board for discussion and/or action, it will be done in compliance with Section 54954.2(b) as an emergency item or because there is a need to take immediate action, which came to the attention of the Board subsequent to the posting of the agenda, or as set forth on a supplemental agenda posted in the manner as above, not less than 72 hours prior to the meeting date.

<u>Public Comments</u>: Any member of the public may address the Board of Commissioners on specific agenda items or matters of general interest. As determined by the Chair, speakers may be deferred until the specific item is taken for discussion and remarks may be limited to five minutes. Persons desiring to submit paperwork to the Board of Commissioners shall provide a copy of any paperwork to the Board Secretary for the official record.

Matters of Interest addressed by a member of the public and not listed on this agenda cannot have action taken by the Board of Commissioners except as authorized by Section 54954.2(b). If you wish to speak, please complete a Speaker's Form (located at the table in the lobby outside of the Board Room) and give it to the Board Secretary prior to the start of the meeting.

If any individual wishes to challenge an action of the Commission in court, he or she may be limited to raising those issues that were raised at the public hearing pertaining to the Commission's actions, or in any written correspondence delivered to the Commission on or prior to the public hearing.

Consent Calendar: All matters placed on the Consent Calendar are considered as not requiring discussion or further explanation and unless any particular item is requested to be removed from the Consent Calendar by a Commissioner, staff member or member of the public in attendance, there will be no separate discussion of these items. All items on the Consent Calendar will be enacted by one action approving all motions, and casting a unanimous ballot for resolutions included on the consent calendar. All items removed from the Consent Calendar shall be considered in the regular order of business.

The Chair will determine if any items are to be deleted from the Consent Calendar.

<u>Items Continued</u>: Items may be continued from this meeting without further notice to a Committee or Board meeting held within five (5) days of this meeting per Government Code Section 54954.2(b)(3).

<u>Meeting Adjournment</u>: This meeting may be adjourned to a later time and items of business from this agenda may be considered at the later meeting by Order of Adjournment and Notice in accordance with Government Code Section 54955 (posted within 24 hours).

Accommodations for the Disabled: In compliance with the Americans with Disabilities Act (ADA), the Board of Commissioners Meeting Room is wheelchair accessible. If you require any special disability related accommodations, please contact the Victor Valley Wastewater Reclamation Authority Board Secretary's office at 760-246-2892 at least 72 hours prior to the scheduled meeting. Requests must specify the nature of the disability and the type of accommodation requested.

PRESS RELEASE



FOR IMMEDIATE RELEASE

(Images available upon request)

OC Agencies set GUINNESS WORLD RECORDSTM Title for Most wastewater recycled into drinking water in 24 hours

Groundwater Replenishment System Celebrates 10th Anniversary with Record and Community Event Attended by Hundreds

FOUNTAIN VALLEY, CA (February 16, 2018) – The Orange County Water District (OCWD) and Orange County Sanitation District (OCSD) today succeeded in the attempt to set a GUINNESS WORLD RECORDSTM title for the *Most wastewater recycled to drinking water in 24 hours*.

The GUINNESS WORLD RECORDS title was achieved by the Groundwater Replenishment System (GWRS), which is the world's largest water purification facility of its kind. This achievement commemorates the 10th anniversary of the facility, a collaboration between the two districts.

"Recycling wastewater is critical to protecting and effectively managing our local water supplies at a time when we are facing extreme weather and droughts," said OCWD President Denis Bilodeau. "We hope this achievement will raise awareness and better understanding of the importance of facilities like the GRWS because the potential of water recycling in California, and around the world, is tremendous."

"This is a time to celebrate and learn about this proven technology that is so vital to sustaining our communities and our natural environment," said OCSD Board Chairman and GWRS Steering Committee Vice-Chair Greg Sebourn. "We have the technology now to produce safe drinking water that ensures long-term reliability of local supplies."

The GUINNESS WORLD RECORDS title attempt to produce the most wastewater recycled into drinking water in 24 hours started at 3:30 p.m. on Thursday, Feb. 15. The successful completion of the GUINNESS WORLD RECORDS title attempt was announced Friday, Feb. 16, during the Winter Fest, a public event that was held at the GWRS facility. The celebration included a community toast with recycled water from the facility.

"This was an incredible attempt that impacted the local community and environment. It provided perspective on the process of making water safe for consumption," said Philip Robertson, official GUINNESS WORLD RECORDS adjudicator. "We congratulate the efforts of Orange County Water District and Orange County Sanitation District and welcome them into the Guinness World Records family."

Currently, regulations limit the use of advanced purified water to replenish groundwater basins even though the GWRS facility creates water that exceeds state and federal drinking water standards. California law AB 2022, adopted in 2016, seeks to expand the public's awareness of water treatment advancements by allowing agencies such as OCWD to bottle highly purified recycled water to be handed out for free as an educational tool. The water is so pure, it is near-distilled in quality. The awareness effort is occurring as the state marches toward direct potable reuse of this water.

Around the world there are facilities similar to the GWRS, but the Orange County facility is considered the largest of its kind. The GWRS currently produces 100 million gallons a day of highly purified recycled water to inject into the Orange County Groundwater Basin, managed by OCWD, to increase local drinking water supplies and to prevent seawater intrusion. Work will soon be under way to expand its capacity to produce 130 million gallons a day of purified recycled water—enough for 1 million people.

"For more than a century, California has relied on rivers like the Colorado and Sacramento for our water. Today, we demonstrated we have new rivers to utilize," said renowned climate expert and scientist Bill Patzert, who emceed the celebration program. "It makes perfect sense to use the technology we have today to use the water we have right in our backyard and recycle it for drinking water."

For more information about the GWRS, visit www.ocwd.com/gwrs.

About the Orange County Water District

The District is committed to enhancing Orange County's groundwater quality and reliability in an environmentally friendly and economical manner. The following cities utilize the groundwater basin managed by OCWD and receive approximately 75 percent of their water supply from it: Anaheim, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Palma, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda. For more information about the Orange County Water District and its board of directors, call (714) 378-3200 or visit www.ocwd.com.

About the Orange County Sanitation District

OCSD is a public agency that provides wastewater collection, treatment, and recycling for approximately 2.6 million people in central and northwest Orange County. OCSD is a special district that is governed by a 25-member Board of Directors comprised of 20 cities, four special districts, and one representative from the Orange County Board of Supervisors. OCSD has two operating facilities that treat wastewater from

OCWD, OCSD sets world record, Page 3

residential, commercial and industrial sources. For more information, about the Orange County Sanitation District visit www.ocsd.com or call (714) 962-2411.

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News media contacts:

Denis Wolcott, Dick Jones Communications: Denis@dickjones.com, 213-200-1563 (Contact for images, footage)

Gina Ayala, OCWD: Gayala@ocwd.com, 714-378-3323 Rebecca Long, OCSD: Rlong@ocsd.com, 714-593-7444



Victor Valley Wastewater Reclamation Authority

A Joint Powers Authority and Public Agency of the State of California

20111 Shay Rd. Victorville, CA 92394 Telephone: (760) 246-8638 Fax: (760) 948-9897

DATE:

February 28, 2018

TO:

Logan Olds

General Manager

FROM:

Chieko Keagy

Controller

SUBJECT:

Cash Disbursements Register

RECOMMENDED ACTION

It is recommended that the Board of Commissioners approve the cash disbursements and payroll register for the Victor Valley Wastewater Reclamation Authority.

BACKGROUND

The Cash Disbursements Register totals represented below are for the month of FEBRUARY 2018, check numbers 121411-121471 and ACH's.

Accour	nts Payable	ayable		
Checks	ACH's and EFT's	Payroll	Total	
\$96,540.77	\$948,870.52	\$262,794.08	\$1,308,205.37	

Victor Valley Reclamation Authority Cash Disbursement Register From 2/1/18 through 2/28/18

121411	2/1/2018	Effective Date 2/1/2018	01	2G Energy Inc.	Transaction Description Smoke Detectors	415-081700905	- \$	heck Am 522
121412	2/1/2018	2/1/2018	01	Liberty Utilities- Apple Valley Ranches Water	AV Subregional Water- Otoe			
, ,						01242018	\$	
121413	2/1/2018	2/1/2018	01	Battery Mart	BATT000 Credit 266379	266379	\$	
121413	2/1/2018	2/1/2018	01	Battery Mart	Golf Cart Batteries	266374	\$	-
121414	2/1/2018	2/1/2018	01	Big Bear Electric, Inc.	Emergency Call Out	890	\$	
121415	2/1/2018	2/1/2018	01	Blackline Safety Corp	Loner Device Lease	INV2007420	\$	
121416	2/1/2018	2/1/2018	01	Charles P. Crowley Company, Inc	TP Pump Parts	24400	\$	
121417	2/1/2018	2/1/2018	01	City Employees Associates	Supervisors Association Dues	01232018	\$	51
121418	2/1/2018	2/1/2018	01	C.S. Amsco	Swing Check Valve	13219	\$	90
121419	2/1/2018	2/1/2018	01	Daily Press	Pretreatment Program Notice	300139621	\$	13
121420	2/1/2018	2/1/2018	01	Edenbros, Llc	Annual Calibration	200602664	\$	23
121421	2/1/2018	2/1/2018	01	Fastenal	Maintenance Consumables	CAVIC56279	\$	
121422	2/1/2018	2/1/2018	01	Golf Cars Of Riverside	Brake Shoe Set	08998	\$	
121423	2/1/2018	2/1/2018	01	Hi-Desert Communications	Site Rent	37566	\$	
121424	2/1/2018	2/1/2018	01	Misco - T.W. Associates				
					Velocity Logger	12379SW	\$	
121425	2/1/2018	2/1/2018	01	Orkin	Pest Control	165474776	\$	38
121426	2/1/2018	2/1/2018	01	Prudential Overall Supply	Uniform Service	22547507	\$	41
121426	2/1/2018	2/1/2018	01	Prudential Overall Supply	Uniform Service	22551069	\$	41
121426	2/1/2018	2/1/2018	01	Prudential Overall Supply	Uniform Service	22554649	\$	42
121427	2/1/2018	2/1/2018	01	Quantum Labs, Inc	Gioves	INV-393085	\$	53
121428	2/1/2018	2/1/2018	01	Quincy Compressor	Compressor Parts	868053	\$	2,06
121429	2/1/2018	2/1/2018	10	Safety-Kleen Systems Inc.	Solvent Disposal	75612789	\$	1,36
121430	2/1/2018	2/1/2018	01	Southern Counties Lubricants	Chevron Oils	358912	\$	1,83
121431	2/1/2018	2/1/2018	01	Sparling Instruments, Inc.	Mag Meter Electronics	10477201	\$	1,53
121432	2/1/2018	2/1/2018	01	S.P.S. Engineering, Inc.	Grit Classifier	A10205-17b	\$	2,62
121433	2/1/2018	2/1/2018	01	United Rentals Northwest, Inc	Reach Lift Rental	153557128-001	\$	88
121434	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges			
121434	2/1/2018	2/1/2018	01	Verizon Wireless Verizon Wireless		9798056248	\$	1,72
					Wireless Telephone Charges	9798056249	\$	15
121434	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges	9799857578	\$	1,86
121434	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges	9799857579	\$	15
121435	2/1/2018	2/1/2018	01	City Of Victorville / Sanitation	Trash Service	2776791	\$	4,27
121435	2/1/2018	2/1/2018	01	City Of Victorville / Sanitation	Trash Service	2812847	\$	5,14
121436	2/1/2018	2/1/2018	01	Victor Valley College Foundation	Golf Tournament	102202017	\$	1,00
121437	2/1/2018	2/1/2018	01	Whitson Cm	ERA Level 2 Action Plan	201712.96	\$	3,00
121438	2/1/2018	2/1/2018	01	Cintas Corporation	First Aid Supplies	5009502814	\$	43
121439	2/14/2018	2/14/2018	01	Apple Valley Transfer & Storage Dba Shredyourdocs.Con	n Document Shredding	3865	\$	4
121440	2/14/2018	2/14/2018	01	Atmospheric Analysis And Consulting, Inc.	Repair Charge for Damaged Gauge	A-17905	\$	57
121441	2/14/2018	2/14/2018	01	Flyers Energy, Llc	Gasoline	CFS-1554546	\$	83
121442	2/14/2018	2/14/2018	01	G.A. Osborne Pipe & Supply	Piping Supplies	389630	\$	
121443	2/14/2018	2/14/2018	01					36
				Hi-Desert Communications	Site Rent	37617	\$	10
121444	2/14/2018	2/14/2018	01	International Society Of Automation	IT Survival Basics	1084875445	\$	3,08
121445	2/14/2018	2/14/2018	01	Koflo Corporation	Static Mixer	K-80015	\$	14
121446	2/14/2018	2/14/2018	01	Orkin	Pest Control	166822282	\$	38
121447	2/14/2018	2/14/2018	01	Prudential Overall Supply	Uniform Service	22558159	\$	42
121447	2/14/2018	2/14/2018	01	Prudential Overall Supply	Uniform Service	22561845	\$	41
121448	2/14/2018	2/14/2018	01	Roto-Rooter Plumbers	Mens Restroom Repairs	A13118010	\$	21
121449	2/14/2018	2/14/2018	01	Royal Wholesale Electric	Processor Repair	6441-553771	\$	9,20
121450	2/14/2018	2/14/2018	01	Sparkletts Drinking Water	Bottled Water	14877093 020418	\$	1,91
121451	2/14/2018	2/14/2018	01	Thurlow'S Heating & A/C Inc.	Thurlows Service	21764	\$	2,37
121452	2/14/2018	2/14/2018	01	Town & Country Tire	Club Cart Tires	249025	\$	78
121453	2/14/2018	2/14/2018	01	Whitson Cm	Storm Water Pollution Prevention Plan	201801.88		
121454	2/14/2018	2/14/2018	01	Cintas Corporation			\$	50
					First Aid Supplies	5009841645	\$	64.
21455	2/22/2018	2/22/2018	01	Alpha Omega Septic Service	Pump and Dump	30947	\$	9,00
21455	2/22/2018	2/22/2018	01	Alpha Omega Septic Service	Pump and Dump Activated Sewage Water	30953	\$	9,00
21456	2/22/2018	2/22/2018	01	Liberty Utilities- Apple Valley Ranchos Water	Water Usage	02082018	\$	75
21457	2/22/2018	2/22/2018	01	World Oil Environmental Services	Use Oil Disposal	1500-00293489	\$	3:
21458	2/22/2018	2/22/2018	01	Atmospheric Analysis And Consulting, Inc.	Lab Analysis	A-17959	\$	1,336
21459	2/22/2018	2/22/2018	01	Big Bear Electric, Inc.	Demo Electrical at Old Ferric	931	\$	1,98
.21459	2/22/2018	2/22/2018	01	Big Bear Electric, Inc.	Replace Feeder to Bldg	930	\$	5,11:
21460	2/22/2018	2/22/2018	01	Blaine Tech Services, Inc.	Field Service	2BLRS-171024AP1		3,50
21461	2/22/2018	2/22/2018	01	City Employees Associates	Davis and Laari Dues Deduction	02212018	\$	5,50
21462	2/22/2018	2/22/2018	01	Daily Press	Public Notice	1801-00004121	\$	1,020
21463	2/22/2018	2/22/2018	01	Fastenal	Eye Sliphook			
21464	2/22/2018	2/22/2018	01	Flyers Energy, Llc	Gasoline	CAVIC56783	\$	14
						CFS-1563556	\$	900
21465	2/22/2018	2/22/2018	01	Jpr Systems, Inc.	Surge Protection	25358	\$	61
21466	2/22/2018	2/22/2018	01	Konica Minolta Business Solutions	Printing Charges	9004295970	\$	502
21467	2/22/2018	2/22/2018	01	Orkin	Bugs Control	166822283	\$	38
21468	2/22/2018	2/22/2018	01	Prudential Overall Supply	Maint & Ops Uniform Service	22565412	\$	423
21469	2/22/2018	2/22/2018	01	Quill Corporation	Legal Exhibit Dividers	4749954	\$	33
21469	2/22/2018	2/22/2018	01	Quill Corporation	Office Supplies	4715249	\$	183
21469	2/22/2018	2/22/2018	01	Quill Corporation	Office Supplies Color	4744091	\$	86
21469	2/22/2018	2/22/2018	01	Quill Corporation	Office supplies Frame	4718051	\$	80
21470	2/26/2018	2/26/2018	01	Donna Anthony	Retiree Health Benefit Allowance	ANTH022618	\$	438
21471	2/26/2018	2/26/2018	01	Dan Sentman	Retiree Health Benefit Allowance	SENT022618	\$	212
					- Salva Allow Bull	Total Checks		5,5 40.
118SWG	2/1/2018	2/1/2018	01	Southwest Gas Company	Natural Gas	01040010	p	, ,
418SWG	2/14/2018	2/14/2018	01			01242018	\$	1,150
				Southwest Gas Company	Subregional Natural Gas- Appaloosa	020818	\$	704
418UPS	2/14/2018	2/14/2018	01	Ups	Express Shipping	0000615V7V048	\$	24
418UPS	2/14/2018	2/14/2018	01	Ups	Express Shipping	0000615V7V058	\$	338
418UPS	2/14/2018	2/14/2018	01	Ups	Express Shipping	0000615V7V068	\$	222
2018SWG	2/14/2018	2/14/2018	01	Southwest Gas Company	Subregional Nautral Gas- Fresno	02082018	\$	25
18CHAR	2/27/2018	2/27/2018	01	Charter Communications	Telephone Charges	02072018	\$	4,839
718SWG	2/27/2018	2/27/2018	01	Southwest Gas Company	AV Subregional Natural Gas- Otoe	292018	\$	1,097
779437	2/1/2018	2/1/2018	01	Verizon Wireless				
-43737670	2/1/2018				Wireless Telephone Charges	9796264871		(3,444
		2/14/2018	01	Dell Inc.	Precision Workstations	02022018	\$	7,280
	2/14/2018	2/14/2018	09	State Water Resources Control Board	NAVI SRF Loan Payment	12222017	\$ 2	58,151
	01111-0							
08872	2/14/2018	2/14/2018	01	Swrcb	Index No. 325715	SW-0147946	\$	484
175936 208872 495467 93173-1	2/14/2018 2/1/2018 2/1/2018	2/1/2018 2/1/2018 2/1/2018	01 01 01	Swrcb Hesperia Water District A.D.S. Corp.	Index No. 325715 Hesperia Subregional Water Usage- Fresno	SW-0147946 01222018	\$	1,036

Victor Valley Reclamation Authority Cash Disbursement Register From 2/1/18 through 2/28/18

		Effective Date			Transaction Description	Invoice Number		heck Amoun
3593173-1	2/1/2018	2/1/2018	01	A.D.S. Corp.	Flow Monitoring	12928.22-1217	5	
3593173-10	2/1/2018	2/1/2018	10	Grainger	Packing Seal	9674035564	S	184,22
3593173-10	2/1/2018	2/1/2018	01	Grainger	Security Sign	9644499346	\$	72.75
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Hach Credit 2148416	2148416	\$	(433.16
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Lab Supplies	10743316	\$	723.67
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Lab Supplies	10744825	\$	236.79
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Lab Supplies	10755131	\$	582.08
3593173-12	2/1/2018	2/1/2018	01	Jwc Environmental	Rotor Assembly	90293	S	24,247.76
3593173-13	2/1/2018	2/1/2018	09	Mwh Constructors	Subregionals CM Services	1774440	S	69,522.18
3593173-13	2/1/2018	2/1/2018	09	Mwh Constructors	Subregionals CM Services	1778396	\$	
3593173-14	2/1/2018	2/1/2018	01	Principal Life Ins. Co.	Dental and Visision Insurance February	02012018	\$	
3593173-15	2/1/2018	2/1/2018	01	Protection One	Hesperia Subregional Appaloosa Protection On		\$,
3593173-16	2/1/2018	2/1/2018	01	Quinn Company	Belt Tension Gauge	PC8203967939	S	
3593173-16	2/1/2018	2/1/2018	07	Quinn Company	Generator Rental	E7002407	\$	
3593173-17	2/1/2018	2/1/2018	09	Michael Baker International	WWTP Stormwater Containment System	1000888	\$	
3593173-18	2/1/2018	2/1/2018	01	Schafer Consulting	Financial Software Consulting	2460	\$	
3593173-19	2/1/2018	2/1/2018	01	Teledyne Isco, Inc.	Sampler Parts	S020229962	\$	
3593173-2	2/1/2018	2/1/2018	01	American Express	American Express Charges December 2017	12282017	S	
3593173-20	2/1/2018	2/1/2018	01	U.S.A. Bluebook	NTU Calibration	440544	\$	
3593173-21	2/1/2018	2/1/2018	01	Vision Internet Providers	Web Hosting	36100	\$	
3593173-22	2/1/2018	2/1/2018	01	Victor Valley Wastewater Employees Assoc	Employee Association Dues January 2018	01232018	\$	
3593173-23	2/1/2018	2/1/2018	01	West Coast Safety Supply	Sensor Calibration	36342	\$	
3593173-3	2/1/2018	2/1/2018	01	Applied Maintenance Supplies & Solution	Maintenance Consumables	96889167	\$,
3593173-4	2/1/2018	2/1/2018	01	Brenntag Pacific, Inc	Brenntag Credit BPI270040	BPI270040	\$	(405.00
3593173-4	2/1/2018	2/1/2018	01	Brenntag Pacific, Inc	Ferric Chloride	BPI800300	\$	
3593173-4	2/1/2018	2/1/2018	01	Brenntag Pacific, Inc	Sodium Hypochlorite	BPI801062	\$	
3593173-5	2/1/2018	2/1/2018	09	Carollo Engineers, A Professional Corporation	Desert Knolls Wash Interceptor	0162538	\$	
3593173-5	2/1/2018	2/1/2018	09	Carollo Engineers, A Professional Corporation	Subregional ESDC	0162291	\$	
3593173-6	2/1/2018	2/1/2018	01	Crane Pro Services	Quarterly Crane Inspection	SBD001016172	\$	
3593173-7	2/1/2018	2/1/2018	01	D.K.F. Solutions Inc.	MSO Subscription	13669	\$	350.00
3593173-7	2/1/2018	2/1/2018	01	D.K.F. Solutions Inc.	Tactical Communication	13686	\$	1,810.00
3593173-7	2/1/2018	2/1/2018	01	D.K.F. Solutions Inc.	Tactical Communication	13687	S	
3593173-8	2/1/2018	2/1/2018	01	Environmental Systems Research Institute, Inc.	ESRI Software Renewal	93399929	\$	460.00 6,751.88
3593173-9	2/1/2018	2/1/2018	01	E.S. Babcock & Sons, Inc.	Lab Testing December 2017	01012018	\$	
3660663-L	2/14/2018	2/14/2018	01	2G Energy Inc.	Cyliner Head			-
3660663-1	2/14/2018	2/14/2018	01	2G Energy Inc.	Gasket	415-081800048	5	1,771.72
3660663-10	2/14/2018	2/14/2018	01	Culligan Water Conditioning	Water Softener	415-081800024	\$	455.97
3660663-11	2/14/2018	2/14/2018	01	Eec Acquisition Llc	Lab Dishwasher Repair	201802041401	\$	470.00
3660663-12	2/14/2018	2/14/2018	01	Energy Choice, Inc.		95044543	\$	526.20
3660663-13	2/14/2018	2/14/2018	01	E.S. Babcock & Sons, Inc.	Spark Plug	INV05675	\$	16,612.39
3660663-14	2/14/2018	2/14/2018	01	Grainger	Lab Testing	01312018	\$	19,953.00
3660663-14	2/14/2018	2/14/2018	01	Grainger	Safety Glasses	9637077869	\$	180.27
3660663-15	2/14/2018	2/14/2018	01	Larry Walker Associates	Security Sign	9670569715	\$	72.75
3660663-16	2/14/2018	2/14/2018	10	Megrath Rentcorp	Annual Reports	00054.49-1	\$	2,198.75
3660663-17	2/14/2018	2/14/2018	01	-	Admin Office Lease	1551208	\$	3,658.12
3660663-18	2/14/2018	2/14/2018	01	Protection One	Protection One Monitoring	120807894	\$	745.60
3660663-19	2/14/2018		01	Trimax Systems	Troubleshooting	109064	\$	1,202.67
3660663-2	2/14/2018	2/14/2018 2/14/2018		Underground Service Alert Of Southern California	Dig Alert Charges	120180796	\$	110.65
3660663-2			01 01	Adjusters International, Inc.	DHS/OIG Audit	VVWRA01-010	\$	2,512.50
	2/14/2018	2/14/2018		Adjusters International, Inc.	DHS/OIG Audit	VVWRA01-011	\$	852.50
3660663-20	2/14/2018	2/14/2018	01	U.S.A. Bluebook	Gauge	474791	\$	402.48
3660663-21	2/14/2018	2/14/2018	01	Vision Internet Providers	Web Hosting	36198	\$	243.10
3660663-22 3660663-23	2/14/2018	2/14/2018	01	Waxie Sanitary Supply	Janitorial Supplies	77225247	\$	1,336.62
	2/14/2018	2/14/2018	01	Xylem Water Solutions	UV Totalcare Services	3556983857	\$	29,900.00
3660663-3	2/14/2018	2/14/2018		Advanced Systems	Fleet Vehicle Wash	399	\$	200.00
3660663-4	2/14/2018	2/14/2018	01	All Covered	Cisco ASA	823196	\$	2,950.88
3660663-4	2/14/2018	2/14/2018		All Covered	FirePOWER Services	820401	\$	2,283.91
3660663-5	2/14/2018 2/14/2018	2/14/2018	01	Applied Maintenance Supplies & Solution	Bushing	96899471	\$	25.30
3660663-6 3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	CEQA Matters	814824	\$	3,745.50
		2/14/2018	01	Best, Best & Krieger, L.L.P.	Contract Review	814822	\$	3,055.50
3660663-6	2/14/2018	2/14/2018		Best, Best & Krieger, L.L.P.	Bthics and Goverance	814826	\$	157.50
3660663-6	2/14/2018	2/14/2018		Best, Best & Krieger, L.L.P.	Evaluation of Victorville Project	814823	\$	8,190.00
3660663-6	2/14/2018	2/14/2018		Best, Best & Krieger, L.L.P.	FEMA Audit	814827	\$	1,606.50
3660663-6 3660663-6	2/14/2018	2/14/2018		Best, Best & Krieger, L.L.P.	General- Retainer	814818	\$	11,344.57
	2/14/2018 2/14/2018	2/14/2018		Best, Best & Krieger, L.L.P.	Labor Matters	814819	\$	1,762.00
3660663-6		2/14/2018		Best, Best & Krieger, L.L.P.	Lahontan Regional Water Quality Control Board	814825	\$	472.50
3660663-6	2/14/2018	2/14/2018		Best, Best & Krieger, L.L.P.	Proejcts	814820	\$	79.29
3660663-6	2/14/2018	2/14/2018		Best, Best & Krieger, L.L.P.	Public Contract Drafting	814821	\$	1,562.00
3660663-7	2/14/2018	2/14/2018		Biogas Power Systems- Mojave, Llc	Biogas Project	VVWRA-18-02	\$	64,119.27
3660663-8	2/14/2018	2/14/2018		Biogas Engineering	Battery Pod Pad	116	\$	5,700.00
3660663-8	2/14/2018	2/14/2018		Biogas Engineering	Load Bank Design PM Hours	113	\$	4,032.00
3660663-9	2/14/2018	2/14/2018		Brenntag Pacific, Inc	Ferric Chloride	BPI804601	\$	4,383.01
3660666	2/14/2018	2/14/2018		Tarango, Michael	Training Mileage	09262017	\$	197.29
3686828-1	2/23/2018	2/23/2018		All Covered	Firewall P2P	824743	\$	2,362.50
3686828-10	2/23/2018	2/23/2018		Gierlich Mitchell, Inc.	Dominator Series Pump	15143	\$	1,500.83
3686828-11	2/23/2018	2/23/2018		link Business Management	Janitorial Services	151	\$	2,569.76
686828-12	2/23/2018	2/23/2018		Larry Walker Associates	2017 Local Limits Update	00054.47-2	\$	3,960.00
686828-12	2/23/2018	2/23/2018		Larry Walker Associates	NPDES Permit Renewal	00054.45-4	\$	5,817.50
686828-12	2/23/2018	2/23/2018		Larry Walker Associates	Regulatory Assistance	00054.49-2	\$	2,102.50
686828-13	2/23/2018	2/23/2018		Mc Master-Carr Supply Co.	Sling Hook	55739463	\$	518.20
686828-14	2/23/2018	2/23/2018		Msdsonline	MSDSonline HQ Account-Renewal	175605	\$	2,858.00
686828-15	2/23/2018	2/23/2018	07	Quinn Company	E005 Generator Rental	E70024		12,592.45
686828-16	2/23/2018	2/23/2018	01	Reliant Water Technologies	Otoe Pump Station Aeration	11018		28,896.95
686828-17	2/23/2018	2/23/2018		J.S.A. Bluebook	Loop Powered Indicator Transmitter	480617	\$	500.06
686828-17	2/23/2018	2/23/2018		J.S.A. Bluebook	Seametrics Insertion Mag Meter	480684	\$	1,295.25
686828-18	2/23/2018	2/23/2018		J.S. Bank	Cal Card Statement December 2017	12222017	\$	
686828-19	2/23/2018	2/23/2018		Victor Valley Wastewater Employees Assoc	Employees Association Dues			6,203.28
686828-2	2/23/2018	2/23/2018		Allmax Software, Inc.	AllMax Tech Support	02212018	\$	550.00
686828-3	2/23/2018	2/23/2018		American Organics		23239	\$	4,985.00
	2/23/2018	2/23/2018		Solenis Llc	Biosolids			10,152.19
080828-4				VANUE LIV	PRAESTOL K 260 FL IBC 1000L	131262511	\$	6,908.93
	2/23/2018	2/23/2019	Λ1 T	Brenntag Pacific Inc	Domin aldanida	DDIAGO	m	
3686828-4 3686828-5 3686828-6	2/23/2018 2/23/2018	2/23/2018 2/23/2018		Brenntag Pacific, Inc Caltrol, Inc.	Ferric chloride water treatment Kit, Repair	BPI808601 CD99038530	\$	5,361.68 415.62

Victor Valley Reclamation Authority Cash Disbursement Register From 2/1/18 through 2/28/18

Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Invoice Number	Ch	eck Amour
3686828-7	2/23/2018	2/23/2018	01	Diamond Environmental Services	Rremier Restroom	0001328423	\$	262.39
3686828-8	2/23/2018	2/23/2018	01	D.K.F. Solutions Inc.	My Safety Officer-Monthly Subscription Fee	13713	\$	350.00
3686828-9	2/23/2018	2/23/2018	01	Evoqua Water Technologies Llc	Bioxide	903428764	\$	8,292.71
3693263-1	2/26/2018	2/26/2018	01	Billings, Richard	Retiree Heal Benefit Allowance	BILL022618	\$	438.00
3693263-10	2/26/2018	2/26/2018	01	Randy Main	Retiree Health Benefit Allowance	MAIN022618	\$	438.00
3693263-11	2/26/2018	2/26/2018	01	Mark Mcgee	Retiree Health Benefit Allowance	MCGE	\$	438.00
3693263-12	2/26/2018	2/26/2018	01	Lillie Montgomery	Retiree Health Benefit Allowance	MONT0226	\$	438.00
3693263-13	2/26/2018	2/26/2018	01	L. Christina Nalian	Retiree Health Benefit Allowance	NALI022618	\$	438.00
3693263-14	2/26/2018	2/26/2018	01	Nave, Patrick	Retiree Health Benefit Allowance	NAVE022618	\$	438.00
3693263-2	2/26/2018	2/26/2018	01	Roy Dagnino	Retiree Health Benefit Allowance	DAGI022618	\$	438.00
3693263-3	2/26/2018	2/26/2018	01	Tim Davis	Retirce Health Benefit Allowance	DAVI022618	\$	438.00
3693263-4	2/26/2018	2/26/2018	01	Terrie Gossard Flint	Retiree Health Benefit Allowance	FLIN022618	\$	249.30
3693263-5	2/26/2018	2/26/2018	01	Gillette, Randy	Retiree Health Benefit Allowance	GILL022618	\$	438.00
3693263-6	2/26/2018	2/26/2018	01	Andrew Gyurcsik	Retiree Health Benefit Allowance	GYUR022618	\$	438.00
3693263-7	2/26/2018	2/26/2018	01	Thomas Hinojosa	Retiree Health Benefit Allowance	HINO022618	\$	438.00
3693263-8	2/26/2018	2/26/2018	01	Patricia J Johnson	Retiree Health Benefit Allowance	JOHN022618	\$	183.34
3693263-9	2/26/2018	2/26/2018	01	Olin Keniston	Retiree Health Benefit Allowance	KENI022618	\$	249.30
790695	2/14/2018	2/14/2018	01	Konica Minolta Business Solutions	Big Printer Lease	31429802	\$	351.02
790695	2/14/2018	2/14/2018	01	Konica Minolta Business Solutions	Individual Printer Lease	31460795	\$	662.95
32380696860329	2/1/2018	2/1/2018	01	Southern California Edison	Electricity	01172017	\$	46,114.40
32380696860589	2/27/2018	2/27/2018	01	Southern California Edison	Electricity	02162018	\$	39,581.26
33950026110589	2/27/2018	2/27/2018	01	Southern California Edison	Hesperia Subregional Electricity- Appaloosa	020918	\$	5,851.95
33950027690585	2/27/2018	2/27/2018	01	Southern California Edison	Hesperia Subregional Electricity- Fresno	02092018	\$	203.75
33977752890589	2/27/2018	2/27/2018	01	Southern California Edison	AV Subregional Electricity- Otoe	2918	\$	4,334.15
91000018912154	2/14/2018	2/14/2018	01	Lincoln Financial Group	Life and Disability Insurance	3606968694	\$	3,300.37
1000018912154	2/14/2018	2/14/2018	01	Lincoln Financial Group	Life and Disability Insurance	3606969495	\$	100.66
						Total ACH & EFT	948	3,870.52
					Total Checks	96,540.77		
					Total ACH and EFT	948,870.52		
	APPROV	0305	0		Total Payroll - February 2018	262,794.08		
Ch.	1000	0305	18		Total	1,308,205,37		

MINUTES OF A REGULAR MEETING REGULAR MEETING OF THE BOARD OF COMMISSIONERS VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VVWRA) February 15, 2018

CALL TO ORDER: Chair Jeff Rigney called the meeting to order at 8:00 am; in Conference Room D at Victorville City Hall, located at 14343 Civic Drive, Victorville California, with the following members present:

CITY OF HESPERIA
ORO GRANDE (CSA 42) AND
SPRING VALLEY LAKE (CSA 64)
TOWN OF APPLE VALLEY
CITY OF VICTORVILLE

Larry Bird, Alternate Jeff Rigney, Vice Chair

Scott Nassif, Secretary
Jim Kennedy, Treasurer

VVWRA Staff and Legal Counsel:

Logan Olds, General Manager Kristi Casteel, Secretary to GM/Board Piero Dallarda, Legal Counsel (BB&K) Chieko Keagy, Controller Eugene Davis, O&M Manager

David Wylie, Safety & Communications Officer Latif Laari, Business Applications Manager Xiewi Wang, Senior Accountant Robert Townsend, EC Inspector Robert Coromina, Director of Administration

Others Present:

Nils Bentsen, City of Hesperia Keith Metzler, City of Victorville Greg Snyder, Town of Apple Valley Carl Coleman, Mojave Water Robert Deloach, Deloach & Associates Jim Cox, City of Victorville

Doug Robertson, Town of Apple Valley Lori Lamson, Town of Apple Valley Brian Gengler, City of Victorville Blanca Gomez, City of Victorville Kimberly Cox, Helendale George Harris, City of Victorville

CLOSED SESSION

PUBLIC COMMENTS- CLOSED SESSION AGENDA

Chair Rigney asked if there were any comments from the public regarding any item on the Closed Session Agenda. Hearing none, he called for a motion to enter into Closed Session.

Commissioner Nassif made a motion to enter into Closed Session.

VVWRA Regular Meeting Minutes Thursday February 15, 2018 Page 2

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

Chair Rigney called the meeting to order at 9:09 am.

REPORT FROM CLOSED SESSION

PUBLIC COMMENTS- REGULAR SESSION AGENDA

ANNOUNCEMENTS AND CORRESPONDENCE:

4. Possible conflict of interest issues

Commissioner Nassif abstained from any disbursements to Napa Auto Parts.

- 5. Article: The Final Frontier? Astronauts Could Recycle Their Waste Into Protein Paste
- 6. Report: WaterWatts: A Modern Look at Wastewater Power-Metering Data

CONSENT CALENDAR:

7. Approve January 2018 Disbursement Registers

Commissioner Nassif abstained from any disbursements to Napa Auto Parts.

- 8. Approve Minutes from the January 18, 2018 Regular Meeting
- 9. Recommendation to Ratify Low Voltage Power Emergency Purchases

Commissioner Kennedy made a motion to approve the consent calendar, seconded by Commissioner Nassif and approved by roll call vote with Commissioner Nassif abstaining from any disbursements to Napa Auto Parts.

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

VVWRA Regular Meeting Minutes Thursday February 15, 2018 Page 3

REPORTS & PRESENTATIONS:

10. Presentation: Organizational Performance Assessment- Robert A. Deloach

Robert DeLoach gave a presentation on Organizational Performance for VVWRA

11. Presentation: Use of Connection Fees 2002-2009

Logan Olds gave a presentation on Use of Connection Fees

PUBLIC COMMENT

Blanca Gomez requested to speak after Reports & Presentations and made general public comments. **ACTION & DISCUSSION ITEMS:**

12. Recommendation to Approve Accounting Software

Manager Olds stated that a firm has been selected for the accounting software that the finance department has been reviewing with the help of the Finance Committee. Tyler Technology, they are the low bid and also the firm that is desired by staff.

Chieko Keagy said the staff has been using the current program for the last ten years and we have come to the maximum capacity of this program, it is no longer suited for VVWRA's needs.

Commissioner Kennedy asked if this proposed software package would retain some of VVWRA's sub-systems?

Chieko Keagy stated that this software would tie into and is compatible with VVWRA's inventory and maintenance software.

Commissioner Kennedy made a motion to approve the Recommendation, seconded by Commissioner Nassif

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

13. Discussion: Flow Diversion and Withholding of Payment for Services Rendered by the City of Hesperia

VVWRA Regular Meeting Minutes Thursday February 15, 2018 Page 4

There was a lengthy discussion by the Board regarding this matter. There was no action taken.

PUBLIC COMMENT

Joe Fuleute requested to speak; Chair Rigney allowed the public comment and asked that it be made after Item 13. Joe Fuleute made general public comments.

STAFF/PROFESSIONAL SERVICES REPORTS:

- 14. Financial and Investment Report January 2018
- 15. Operations & Maintenance Report January 2018
- 16. Environmental Compliance Department Reports January 2018
- 17. Septage Receiving Facility Reports January 2018
- 18. Safety & Communications Report January 2018
- 19. Construction Report January 2018

NEXT VVWRA BOARD MEETING:

Thursday, March 15, 2018 - Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Leave Policy

COMMISSIONER COMMENTS

ADJOURNMENT

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DATE:	BY:	
Approved by VVWRA Board		Scott Nassif, Secretary
		VVWRA Board of Commissioners



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners

March 15, 2018

FROM:

Chieko Keagy, Controller

TO:

Logan Olds, General Manager

SUBJECT:

Low Voltage Power and Failure of Standby Generators 1 and 2

RECOMMENDATION

Per Board direction in response to two low voltage power failure emergencies in May of 2017, which damaged standby generators 1 and 2, staff is bringing new expenses before the Board for ratification in the amount of \$12,592.45 that incurred during January and February of 2018.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel.

BACKGROUND INFORMATION

Please review the attached invoice for the January/February expenses. The attachment also shows the expenses incurred to date, \$509,474.62. The repair work has been delayed due to GE's scheduling. The staff will continue to incorporate the emergency generator switch gear with the plant standby generator switch gear. Staff believes VVWRA will complete the repairs to the standby and emergency generator systems by the March 12, 2018.

FINANCIAL IMPACT

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-02-545-6010 and 01-02-80-6000 From FY 2018 budget
Transfer Needed due to Insufficient Budget	Y[] N[X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$ 0.00
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$ 0.00

Finance Approval:

Fund 09							
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)							
Transfer Needed due to Insufficient Budget	Υ[]	N []			
If Transfer, from Which Account String or Reserve							
Budgeted Amount Where Money Comes from							
Budget Remaining after the Recommendation							
Outside Funding Source	\$						
Original Contract Amount	\$						

		ř.	<u>l</u>
Change Order	Y[] N[]	Change Order	Y[] N[]
Contract after Change	\$509,474.62	Contract after Change	\$

RELATED IMPACTS

The staff will report progress toward resolving the damages caused by the low voltage power to equipment and ensure that backup power is available in the future if both standby generators are damaged.

E005 Emergency Expenses As of 2/28/2018

05222017 JE054217 05222017 17-0042 17-0043 00963 108799	5/22/17 Cal Card Charges May 2017 6/1/17 Reclass BIGB000 557 5/22/17 Cal Card Charges May 2017 5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/22/17 Cal Card Charges May 2017 5/18/17 Troubleshoot Generator not Producing Volage	\$ \$ \$	720.00	USBA000	Fund 01	Account 8060
05222017 17-0042 17-0043 05222017 M00963 108799	5/22/17 Cal Card Charges May 2017 5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/22/17 Cal Card Charges May 2017	\$	720.00			9000
17-0042 17-0043 05222017 M00963 108799	5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/22/17 Cal Card Charges May 2017				01	CODE
17-0043 05222017 M00963 108799	5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/22/17 Cal Card Charges May 2017	\$	746 77	USBA000	01	6035
05222017 M00963 108799	5/18/17 Emergency Labor for Backwash pumps/Gen hookup 5/22/17 Cal Card Charges May 2017	•		DAVI003	01	8060
M00963 108799	5/22/17 Cal Card Charges May 2017		1,075.33		01	6035
108799	5/18/17 Troublechast Consultant and Decition to	±		USBADOO		6035
	2) 10/1/ HOUSESHOOK GENERACOL HOT NICOURING ACISCIE		7,776.55		01 07	8060
	5/25/17 Emergency Service Call	*	5,655.69		07	6000
JE053417	5/31/17 Reclass PACI004 I413398 and I413400	4	1,981.96	מטטרונאיו		6035
58225	5/24/17 Lucky Changy	\$		MORROOM	01	7350
589	5/30/17 Emergency Labor	₹ \$		MORRO00	01	6035
3005139-0001	6/2/17 Generator 1000KW			BIGB000	01	6035
E070217	7/12/17 Reclass JOHN009 3005139-0001	\$	4,457.60	JOHNOUS	07	6000
E063417	6/28/17 Reclass VALL002 B38543	\$	14,181.25		01	6000
5441-538695	6/13/17 VFD Board for Sludge Lagoon Transfer Pump	\$	48,378.54		01	6000
338493	5/4/17 Troubleshoot Generator Failure	\$	3,384.60		01	6015
E061817	6/22/17 Reclass ROYA000 6441-538695	\$	2,163.44	VALLO02	07	6010
T0011822	6/22/17 Emergency Parts	\$	257.91		01	6015
E061917	6/22/17 Reclass PACI004 I413399	\$	1,902.03	DRAK000	01	6035
-7483	6/28/17 Unstable Unit	\$	6,660.03		01	7350
039942-IN	7/11/17 Generator Docking Station	\$	2,515.15		07	6010
005139-0002	6/30/17 Emergency Generator	\$	17,538.07		07	6000
01302763	6/30/17 Emergency Service Commission	\$	11,181.25	POONHO:	07	6000
064817	6/30/17 Reclass VALLOO2 B38493	\$	20,950.00	GEINOD1	01	6035
01330500	7/25/17 Main Switchboard Modifications	\$	10,367.50		01	6000
05767		\$	75,490.90	SEIN002	01	6000
95	8/30/17 Emergency Service Used Gen BKR & Troubleshooting	\$	28,739.08	GEINOO2	01	6010
88953	8/10/17 Otoe Pump Station Door Switch Failure	\$	760.00 E	3IGB000	01	6035
7002401	8/23/17 Emergency Gen Service	\$	2,850.00 \	/ALL002	01	6010
7002402	7/27/17 Generator Rental	\$	12,592.45 (UINO02	07	6000
01173	8/24/17 Emergency Generator Rental	\$	12,592.45		07	6000
002403	7/29/17 Generator 1 Testing	\$	11,320.25 V	ALL002	07	6010
002404	9/21/17 E005 Emergency Generator Rental	\$	12,592.45		07	6000
1445789	10/19/17 Emergency Generator Rental	\$	12,592.45		07	7265
-0175	10/30/17 PSG Startup Field Service	\$	16,351.06 G		01	
-0175 002405	8/22/17 E005 Generator Termination Cabinet	\$	109,087.00 D		01	6050 (42 752 00) 5005 (55 000 00)
	11/16/2017 E005 Emergency Generator Rental	\$	12,592.45 Q		07	6060 (42,762.00) 6035 (66,325.00)
002406	12/14/2017 E005 Emergency Generator Rental	š	12,592.45 Q		07	7265
002407	1/11/2018 E005 Emergency Generator Rental	\$	12,592.45 Q		07	7265
		5	96 882.17	0111002	07	7265
w E005 Expenses						
cument Number	Document Date Document Description	Dock	ed Amount II			
30024	2/8/2018 E005 Emergency Generator Rental					
	and an all and an an area (and)	5	12,592,45 QI	JIN002	07	7265

Total E005 Expenses to Date \$ 509,474.62



10006 Rose Hills Road City of Industry, CA 90601 (562) 463-4000 www.quinncompany.com

SALES/RENTAL INVOICE

Make: CATERPILLAR INC.

Model: 1000KW Serial No: 0SXC00893

Equipment No ·

Machine ID No: PR2453

Meter Reading: 8344.0

BILL TO: VICTOR VALLEY WASTEWATER REC

* 20111 SHAY RD

VICTORVILLE, CA 92394

PLEASE MAKE REMITTANCE TO: QUINN COMPANY

P O Box 849665, Los Angeles, CA 90084-9665

Invoice No.	E7002408
Invoice Date	02/08/2018
Payment Due Date	03/10/2018
Amount Due	\$12,592.45
Payment Terms	Net 30 Days
Credit Memo Amount	
Customer Account No	712270L
Contract No	E70024
Customer PO Number	14729

Please use Remittance Advice on last page of this invoice.

SHIP TO: WASTE WATER TREATMENT PLANT VICTORVILLE, CA

Customer Contact: LOGAN OLDS

Quinn Sales Representative: JASON WONDOLLECK

Quinn Store Location: RIVERSIDE, 656 E. LA CADENA DR. RIVERSIDE, CA 92507 Ph. 951-683-5960

INVOICE	DETAIL	Contract Number: E70024	Contract Date: 07/02/2017	Inve	oice Date: 02/08/201	10
QTY	DESCR	PTION	DAY	WEEK		
	ALL F	RENTAL ITEMS ARE TAXABLE ITEMS WITH (T) ARE TAXABLE	ואסו	WEEK	4WEEK	PRICE
1,		: PR2453 SERIAL NO: 0SXC00893 W GENERATOR - 1000KW	\$1,120	\$3,360	\$10, 0 80	10,080.00
	HRS (OUT: 8344.0				
32	ID NO CABLE	: CABLE 50' SERIAL NO: CABLE 50' E 4/0 50' -	\$0	\$0	\$ O	
	QUINN	POWER SYSTEMS APPRECIATES YOU	JR BUSINESS ${\cal V}$	WWRA		
			FE	EB 1 3 2018		

Rental Subtotal:

10.080.00

Miscellaneous Items

ENV REC FEE 2(T)

1 FIRE, THEFT & VANDALISM

201.60 1,411,20

STATE 7.25% COUNTY 0.5% CITY 1% TOTAL TAX: 8.75%

899.65

Invoice Total:

12,592.45

Go Paperless. To receive your invoices and statements electronically, please visit our website at quinncompany.com.

CARB REGULATIONS Any on-road heavy-duty diesel, alternative-diesel, or off-road diesel vehicle, operated in California, may be subject to the California Air Resources Board In-Use On-Road (Truck and Bus) or In-Use Off-Road Diesel Vehicle Regulations. It therefore could be subject to exhaust retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board websites at http://www.arb.ca.gov/dieseltruck for the Truck and Bus Regulation or http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm for the Off-Road Regulation. Portable engines operated in California may require State or local air district permitting. Customer is responsible for any required air quality permits necessary to operate

TITLE It is understood and agreed that title to and right of possession of any rental item(s) above shall remain vested in the seller until any indebtedness and all sums due or to become due from the customer, whether evidenced by note, book account, judgment or otherwise, shall have been fully paid, at which time ownership shall pass to the customer.

A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM) will be charged on the past due balance. The past due balance represents all charges remaining unpaid on the closing date of the month following the invoice date. In the event of default in the payment of any amount due, and if the account is placed in the hands of any agency or attorney for collection or legal action, the purchaser agrees to pay finance charges equal to the cost of collection (as permitted by laws governing these transactions). When necessary, Quinn will invoke its repairman's lien pursuant to Sections 3051 and 3051a of the California Civil Code. Acceptance by the customer of the parts, service or equipment listed above is the customer's agreement to be bound by the credit and collection terms set forth above.

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PRICE



10006 Rose Hills Road City of Industry, CA 90601 (562) 463-4000

www.quinncompany.com

Make: CATERPILLAR INC.

Model: 1000KW Serial No: 0SXC00893

Equipment No:

DAY

Machine ID No: PR2453

VICTORVILLE, CA

Meter Reading: 8344.0

SALES/RENTAL INVOICE

BILL TO: VICTOR VALLEY WASTEWATER REC 20111 SHAY RD VICTORVILLE, CA 92394

Customer Contact: LOGAN OLDS

Quinn Sales Representative: JASON WONDOLLECK

WEEK

SHIP TO: WASTE WATER TREATMENT PLANT

Quinn Store Location: RIVERSIDE, 656 E. LA CADENA DR. RIVERSIDE, CA 92507 Ph. 951-683-5960

INVOICE DETAIL

QTY

Contract Number: E70024

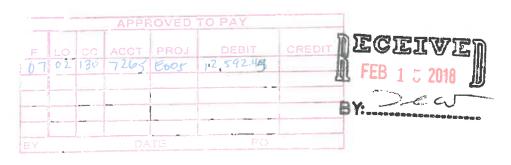
Contract Date: 07/02/2017

invoice Date: 02/08/2018 4WEEK

Date Out: 06/30/2017 Fri

DESCRIPTION

07:00 AM



Billed for 4 weeks from 1/12/2018 7:00 AM thru 2/9/2018 7:00 AM

CUT HERE AND RETURN WITH REMITTANCE

VICTOR VALLEY WASTEWATER REC 20111 SHAY RD VICTORVILLE, CA 92394

Account Number:

712270L

Purchase Order No:

14729

Payment Terms:

Net 30 Days

Contract Number:

E70024

Amount Due

invoice No.: E7002408 Invoice Date: 02/08/2018 Due Date: 03/10/2018.

\$12,592.45

Amount Paid:

Please send your Payment to:

> **QUINN COMPANY** PO Box 849665

Los Angeles, CA 90084-9665

Place this coupon in the return envelope with the mailing addresses clearly visible.

Printed on Thursday, February 8, 2018 8:13:07 PM by AUTOCYCLE-

Invoice No.

RNE070024080

E7002408

Page 2 of 2



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners

15 March 2018

FROM:

Logan Olds, General Manager

TO:

Board of Commissioners

SUBJECT:

Solids Removal from Digesters 2&3

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to enter in to a professional maintenance services contract with Wastewater Solids Management Co. (WSMC) in an amount not to exceed \$22,960.00, twenty two thousand nine hundred and sixty dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel, Eugene Davis, Manager of Operations and Maintenance, and Chieko Keagy, Controller.

BACKGROUND INFORMATION

Staff has continued to progress on identifying issues related to the re-commissioning of digesters 1-3. Digester 2 is approximately 1/3 full of solids and digester 3 is approximately 1/2 full of solids. In order to complete the structural and internal evaluation of the digesters they must be emptied. Staff has attempted to rent and purchase equipment to perform this task in the past without success. The material that remains is high in viscosity and does not lend itself to pumping without significant head pressure. Operationally adding water creates problems with drying the biosolids, volume in the storage lagoons, mixing and coning (a type of short circuiting). In each case WSMC was retained to complete the pumping and cleaning activities once staff got the digester levels as low as possible.

WSMC has the specialized equipment and knowledge to perform this task and has done so for VVWRA on three separate occasions in the past. Staff has not been able to identify additional maintenance service professionals to obtain multiple quotes for this type of project. Therefore it is staff's recommendation to proceed with WSMC to complete the task of draining and cleaning digesters 2&3. The cleaning of the digesters is not a public works contract under Public Contract Code section 1101 (a public work is generally defined as "erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind."). It is maintenance work (defined as "[r]outine, recurring, and usual work for the preservation or protection of any publicly owned or publicly operated facility for its intended purposes under Public Contract Code, § 22002(d)(1) and not subject to same public bidding requirements.

FINANCIAL IMPACT

Unbudgeted maintenance expense to 01-02-152-7132

Finance Approval:

Fund 01 or 07		
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-02-152- 7132	
Transfer Needed due to Insufficient Budget		
If Transfer, from Which Account String or Reserve		
Budgeted Amount Where Money Comes from	0	
Budget Remaining after the Recommendation		
Outside Funding Source if applicable	\$	
Original Contract Amount	\$	
Change Order		
Contract after Change	\$22,960	

Fund 09			
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)			
Transfer Needed due to Insufficient Budget			
If Transfer, from Which Account String or Reserve			
Budgeted Amount Where Money Comes from			
Budget Remaining after the Recommendation			
Outside Funding Source	\$		
Original Contract Amount	\$		
Change Order			
Contract after Change	\$		

RELATED IMPACTS

VVWRA staff will be able to begin the structural inspections of digesters 2&3.



February 28, 2018

Mr. Eugene Davis
Operations and Maintenance Manager
Victor Valley Water Reclamation Facility
20111 Shay Rd.
Victorville, CA 92394
(760) 246-2638 x 287 phone
(760) 246-5194 fax
(760) 954-5006 cell

Dear Eugene:

I would like to thank you for your continued interest in Wastewater Solids Management Company. We are a corporation with over 30 years cumulative experience in digester/lagoon cleaning and biosolids management. We are pleased to extend this quotation to you for the removal of solids from the digesters at the Victor Valley Water Reclamation Facility.

Above all else we are concerned with safety on the job and closely follow the OSHA rules and regulations set forth for maintenance activities. These procedures include lock out/tag out and confined space entry among others.

Attached is the requested quotation for digester cleaning and onsite solids removal services as well as an integrated agreement. Please note that prevailing wage determinations have been included. We anticipate a single mobilization with a four day project duration consisting of approximately two days per tank including set up, transfer to the second tank and tear down operations.

If you have any questions or require any further information, please advise by contacting (541) 547-3213 or (360) 901-4721. We look forward to this opportunity to work with you.

Respectfully submitted,

Victoria E. Prince General Manager

Wastewater Solids Management Company

vickyprince@wastewatermanagement.com www.wastewatermanagement.com

Enclosures:

quotation / agreement

ADMINISTRATIVE OFFICEP.O. BOX 430
YACHATS, OR 97498
(541) 547-3213 PHONE
(541) 971-4571 FAX

ACCOUNTING OFFICE P.O. BOX 1327 LINCOLN, CA 95648 CORPORATE OFFICE P.O. BOX 826 YERINGTON, NV 89447

Victor Valley WRF Request for Quotation Victor Valley Wastewater Facility-Digester Rehabilitation

QUOTATION DATE: FEBRUARY 28, 2018

Mobilization/Demobilization, each: \$2,510.00 Digester Cleaning, #2: \$9,500.00 Digester Cleaning, #3: \$10,950.00

PROJECT TOTAL \$ 22,960.00

- Suppose the state of the sta
- Wastewater Solids Management Company will remove all sludge, grit, sand, rags, plastics, grease and other miscellaneous debris from the digesters to the adjacent sludge storage lagoons. Prior to handing over the digesters for cleaning, VVWRA personnel will have the level of the digester drawn down to the cone in Digester #2 and to just below the side access cover in Digester #3. All hatch covers will be removed by VVWRA personnel prior to the commencement of cleaning operations. WWSMC will hydro-wash the interior of the digester at the Victor Valley Water Reclamation Facility with the following provisions:
 - Tigester #2 & #3: Diameter: 40'; sidewall depth: 37'
 - Digester #2 & #3: Cone Depth: 10'
 - Maximum solids volume, Digester #2: 90,000 gallons
 - Maximum solids volume, Digester #3: 190,000 gallons (20°)
 - Material to be pumped to adjacent sludge storage lagoons
 - Prevailing wage determinations included

This will include all labor and materials except as listed below.

- S Victor Valley WRA will provide the following:
 - Water available, 300 gpm/80 psi
 - § 90 amps, 480 V, 3 phase power
 - Sufficient storage area for sludge material
 - Removal & replacement of access hatch covers
 - S Equipment necessary for offloading, placement of WWSM Co. equipment (backhoe or other).

Integrated Agreement Between Victor Valley WRA and Wastewater Solids Management Co.

This agreement with attachments of addends, represents the entire and integrated agreement between Victor Valley WRA and Wastewater Solids Management Company and supersedes all prior negotiations, representations or agreements, written or oral. However, the proposal submitted by Wastewater Solids Management Company and related documents establish the background and framework in which the contract was prepared and do set forth the expectations of each party to the contract. This agreement may be amended only by written instrument signed by both Victor Valley WRA and Wastewater Solids Management Company.

Dated this the	28th day of February, 2018
	The second secon
Victor Valley WRA	Wastewater Solids Management Co.
	General Manager/Corporate Secretary
Title	Title



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners 15 March 2018

FROM:

Logan Olds, General Manager

TO:

Board of Commissioners

SUBJECT:

Spring Valley Lake – CSD Exploratory Group

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to formally respond to programmatic and strategic questions, if asked to, by the Spring Valley Lake CSD - Exploratory Group. Should this occur VVWRA Staff would provide a draft of the correspondence to Legal Counsel, the City, Town and Special District Managers as well as to the Board for review prior to providing the written response to Mr. Shannon.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel.

BACKGROUND INFORMATION

The community of Spring Valley Lake has created a group to explore the creation of a Special District. Mr. Shannon sent the attached letter dated 14 February 2018 and staff met with Mr. Shannon on 26 February to discuss various options related to the treatment and conveyance of sewage, current status of the VVWRA JPA and its membership process. Staff informed Mr. Shannon that the comments made were for the purpose of identifying parameters for discussion but that any opinion offered did not represent a VVWRA Board position.

Mr. Shannon indicated that as the investigation in to a CSD continues that they may require formal correspondence with VVWRA for the purpose of addressing their questions. The requested information may exceed the parameters of a public information request which is why staff is requesting additional authority and identifying the positions involved with reviewing the correspondence.

FINANCIAL IMPACT

None

RELATED IMPACTS

Unknown

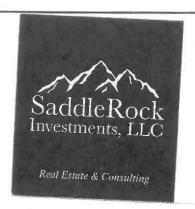
SPRING VALLEY LAKE - CSD EXPLORATORY GROUP

February 14, 2018

WWRA FEB 2 0 2919

Mr. Logan Olds VVWRA 20111 Shay Rd. Victorville, CA 92394

Dear Mr. Olds,



Rory Shannon Managing Partner

9384 SVL Box Victorville, CA 92395 c. 760.2 f. 866.800.8235

Residents of Spring Valley Lake/CSA 64 have recently formed a CSD Exploratory Group to investigate the feasibility of creating a CSD for the purpose of providing water, wastewater, trash and park services to our community. This is being done by residents and not the Homeowners Association. This would be a similar process as Helendale and Phelan/Pinon Hills has done. We are currently creating the feasibility study and will present to LAFCO if and when appropriate. Please keep in mind that this is in the feasibility stage only at this time.

Members of this group believe that exploring the option of local control is a valid conversation for our community understanding that the ultimate decision will be that of the community once LAFCO has completed its evaluation and the LAFCO Commission rendered a decision.

In order to fully examine the feasibility of a CSD we are in the process of gathering information. VVWRA is clearly a stakeholder in this process and upon formation of the new CSD will continue to handle the sanitation needs of a newly formed Spring Valley Lake CSD. With that in mind, the Spring Valley Lake CSD Exploratory Group is requesting to meet with you and any interested VVWRA Commissioners to discuss this process. We would like to meet with you as soon as possible.

We look forward to hearing from you soon.

Sincerely

Rory J. Shanhon

Spring Valley Lake CSD Exploratory Group



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners 15 March 2018

FROM: Logan Olds, General Manager

TO: Board of Commissioners

SUBJECT: Retention of Dr. Almgren to Assist with Resolution of Mediation Issues

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to increase the professional services of Dr. Almgren for tasks associated with resolving issues associated with the current mediation between parties in an amount not to exceed \$35,000.00, thirty five thousand dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel and Chieko Keagy, Controller.

BACKGROUND INFORMATION

The mediator in connection with the flow diversion issues, Justice King, Ret., indicated that all parties involved in the mediation proceedings believe that there is a benefit to having an independent consultant look at the issues related to the costs that VVWRA has suffered as a result of the flow diversion from a financial perspective. To avoid any appearance of bias, Justice King, Ret., picked the consultant, Dr. Almgren. The Member Entities also agreed that VVWRA would be paying for Dr. Almgren's fees.

The Commissioners approved the professional services agreement with Dr. Almgren on 21 December 2017 in an initial amount of \$10,000.00 (Attached). At the time VVWRA was provided with an estimate by Justice King which ranged as high as \$40,000.00. On 20 February 2018 VVWRA received an invoice from Dr. Almgren (Attached) in the amount of \$32,788.19. This value exceeds the Boards authorized expenditure by \$22,788.19 but is within the range provided by Justice King. Staff recommends increasing the professional service contract to a value of \$35,000.00 to address any final questions that Justice King may request from Dr. Almgren. Staff believes that Dr. Almgren has concluded his work so there should not be any additional significant charges.

FINANCIAL IMPACT

Fund 01 or 07			
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-02-300- 8175		
Transfer Needed due to Insufficient Budget	Y[] N[]		
If Transfer, from Which Account String or Reserve			
Budgeted Amount Where Money Comes from	\$35,000.00		
Budget Remaining after the Recommendation			
Outside Funding Source if applicable	\$		
Original Contract Amount	\$35,000.00		
Change Order	Y[] N[]		
Contract after Change	\$		

Finance Approval:

Fund 09					
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)					
Transfer Needed due to Insufficient Budget	Y[]		N[]
If Transfer, from Which Account String or Reserve					
Budgeted Amount Where Money Comes from					
Budget Remaining after the Recommendation					
Outside Funding Source	\$				
Original Contract Amount	\$				
Change Order	Y[]	И[]	
Contract after Change	\$				



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners 21 December 2017

FROM:

Logan Olds, General Manager

TO:

Board of Commissioners

SUBJECT:

Retention of Dr. Almgren to Assist with Resolution of Mediation Issues

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to retain the professional services of Dr. Almgren for tasks associated with resolving issues associated with the current mediation between parties in an amount not to exceed \$10,000.00, ten thousand dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel and Chieko Keagy, Controller.

BACKGROUND INFORMATION

The mediator in connection with the flow diversion issues, Justice King, Ret., indicated that all parties involved in the mediation proceedings believe that there is a benefit to having an independent consultant look at the issues related to the costs that VVWRA has suffered as a result of the flow diversion from a financial perspective. To avoid any appearance of bias, Justice King, Ret., picked the consultant, Dr. Almgren. We understand that the Member Entities have no objection to retaining Dr. Almgren for the limited purpose identified by Justice King. The Member Entities also agreed that VVWRA would be paying for Dr. Almgren's fees.

FINANCIAL IMPACT

Fund 01 or 07			
Accounting Code (String) example: 01-xx-xxxx (project code if any)	01-02-300- 8175		
Transfer Needed due to Insufficient Budget	ווא נוא		
If Transfer, from Which Account String or Reserve			
Budgeted Amount Where Money Comes from	\$10,000.00		
Budget Remaining after the Recommendation			

Finance Approval:

Fund 09				
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)				
Transfer Needed due to Insufficient Budget	Αĺ	1	Ni	_
If Transfer, from Which Account String or Reserve				_
Budgeted Amount Where Money Comes from				
Budget Remaining after the Recommendation				_

HOWARD ALMGREN, Ph.D., P.E. CIVIL ENGINEER

8583 Aero Drive, No. 1047 San Diego, California 92123

cell: 760-305-2522

e-mail: halmgren@hotmail.com

INVOICE

February 20, 2018

Victor Valley Wastewater Reclamation Authority 2011 Shay Road Victorville, California 92394

Re: JAMS REF# 1220054043 Victor Valley Wastewater Reclamation Authority

Invoice No. 1 - December 4, 2017 to February 17, 2018

Scope of Services:

Meetings with Justice Jeffrey King on December 4th, February 6th and February 17th. Requested and researched documents.

Prepared Draft Report No. 1 for Justice Jeffrey King.

Professional Services 107.0 hours at \$300.00/hour

\$32,100.00

Expenses per attached accounting

\$688.19

AMOUNT DUE - THIS INVOICE

\$32,788.19

JAMS REF# 1220054043 Victor Valley Wastewater Reclamation Authority

Almgren Work Product: No. 1 February 17, 2018

Brief Log of Activities to Date

- 1. The initial telephone contact was on November 27th.
- 2. On December 4th Almgren visited the JAMS office in Ontario. A general discussion of the situation was held and several documents were given to Almgren for reference.

2 hours

- 3. On December 4th the following three work items were given to Almgren as a proposed
 - It is contended that from about January 1, 2014 to the present the City of Victorville A. has diverted flow from the VVWRA.
 - It is further contended that from January 1, 2014 to the present the City of Victorville B. has diverted connection fees from the VVWRA.
 - To the extent there has been a diversion of flow and/or connection fees from the VVWRA, what are the damages, if any, that have been sustained by the VVWRA?
- 4. On subsequent days Almgren reviewed some of the material he received; downloaded a few items from the internet; and reviewed Google Maps to get a general layout of the facilities

8 hours

- 5. On December 15th Mr. Dallarda wrote that he had prepared a letter of engagement for Dr. Almgren but that the City of Victorville objected to part of the Scope-of-Work.
- 6. On December 21st there was a conference call with the counsels for the agencies involved. During the call Mr. Dallarda indicated he had received approval for the work of Dr. Almgren at a VVWRA Board Meeting.

1 hour

- 7. On December 22nd Almgren received an e-mail from Andre de Bortnowsky designating Brian Gengler, City Engineer, as the point of Contract for information from the City of Victorville.
- 8. On December 30th Almgren received an e-mail from Piero Dallarda designating Xiwei Wang as the VVWRA representative for obtaining VVWRA information.
- 9. On January 10th Mr. King and Almgren spoke about the time that has gone by and that I don't have a formal letter describing my Scope-of-Work, pay provisions, and contract administrative items concerning my assignment.

- 10. January 15th Almgren prepared a Log of Activities 2 hours
- 11. January 16th Almgren started writing a "Initial Request for Information"
- 12. January 17th Almgren finished the request and sent it to both Points-of-Contact 6 hours - 25 total
- 13. January 22nd e-mails with X. Wang 1 hour
- January 23rd reproduction at Staples and filing 2 hours
- 15. January 24th reviewing documents 3 hours
- 16. January 25th developing concept for damages 2 hours
- 17. January 26th reproduction at Staples and review 2 hours
- 18. January 27th typing up questions 3 hours
- 19. January 28th started Budget book review & attorney Briefs
- 20. January 29th telephone call with Justice King and with Mr. X. Wang 2 hours - 42 total
- 21. February 1st reproduction at Staples and filing 2 hours
- 22. February 2nd reading VVWRA Budget books, making spreadsheet
- 23. February 3rd reviewing files on flows & interceptor map for measurement locations
- 24. February 4th additional spreadsheets 4 hours
 - 25. February 5th summarizing materials for meeting

5 hours - - - 60 total

- 26. February 6th meeting in JAMS office in Ontario with Justice King 3 hours
- 27. February 7th outlined report topics 2 hours
- 28. February 8th received connection fees from City of Victorville, reviewing IWTP's permit & 4 hours
- 29. February 9th writing "Almgren's Report #1" 6 hours
- 30. February 10th writing "Almgren's Report #1" 7 hours
- 31. February 11th writing "Almgren's Report #1" 7 hours
- 32. February 12th writing "Almgren's Report #1" 5 hours
- 33. February 13th finished writing "Almgren's Report #1", sent draft report to Justice King 4 hours
- 34. February 15th analysis of connection fee schedule from City of Victorville, further analysis of flows and e-mail additional connection fee analysis to Justice King 4 hours
- 35. February 16th phone calls with Justice King and preparations for meeting 2 hours
- 36. February 17th meeting in JAMS office in Ontario with Justice King 3 hours

Total hours: 107

Prepared Invoice No. 1 - December 4, 2017 to February 17, 2018

EXPENSE ACCOUNT - Howard Almgren

Re: JAMS REF# 1220054043 Victor Valley Wastewater Reclamation Authority

Item No.	Date	Amount	B	
			Description	Receip
1	12/4/2017	\$143.00	Mileage to JAMS office, December 4th - 220 miles @ 0.65/mile	
2	1/23/2018			no
3	1/26/2018	\$59.86	Staples - reproduction & supplies Staples - reproduction & supplies	ves
4	2/1/2018	\$118.17	Staples - reproduction & supplies	yes
5	2/6/2018		Mileage to JAMS office, February 6th - 220 miles @ 0.65/mile	yes
6	2/17/2018			no
			Mileage to JAMS office, February 17th - 220 miles @ 0.65/mile	no
		\$688.19	TOTAL FOR DECEMBER 2017 to FEBRUARY 2018	

STAPLES

4240 Kearny Mesa Road Suite 120 SAN DIEGO, CA 92111 (858) 279-0355

SALE

1764696 13 005 05005 0266 01/23/18 01:47

GTY SKU

PRICE

****** Customer Order 2097873436 ****** Posters * 2503349 29.93 Wide Format Exp * 2614598 8.97N Documents * 1980563 17.29 Express Guarant * 2623897 5.10N Questions on Customer Order 2097873436 Call Customer Service at 1-800-3STAPLES STPLS STAN VIEW BN 718103198424 4,99 STPLS STAN VIEW BN

1 STPLS STAN VIEW BN
718103198387
1 STPLS STAN VIEW BN
718103216272
SUBTUTAL
Standard Tax 7.7577%
4.82
TOTAL
4.99
881.16

Visa Credit USD\$81,16

Card No.: XXXXXXXXXXXXXX9752 [C]

Chip Read

Auth No.: 018360 AID.: A0000000031010

TOTAL ITEMS 7

*Item is currently on promotion. Some coupons are only valid on regular priced items. Please see coupon terms and cunditions for details.

Staples brand products. Below Budget. Above Expectations.

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Staples Rewards members get up to 5% back in Rewards in store only. \$2 back in Rewards per recycled ink cartridges. Up to 20 per month Minimum prochase recycled.

STAPLES

4240 Kearny Mesa Road Suite 120 SAN DIEGO, CA 92111 (858) 279-0355

SALE

1844710 13 005 05264 0266 01/26/18 03:43

QTY SKU

PRICE

******* Customer Order 2097968892 ******

1 Documents 1980563

37.76

1 Express Guarant 2623897

11 000

STPLSSIAN VIEW BND 718103216371

7.29

SUBTOTAL Standard Tax 7.7500%

56.37

TOTAL

3.49 \$59.86

CHASE VISA

USD859.86

Chip Read

Auth No.: 075440

0101E000000000 :. DIA

TOTAL ITEMS 3

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Staples Rewards members get up to 5% back in Rewards in store only. \$2 back in Rewards per recycled ink cartridges. Up to 20 per month.Minimum purchase required.
Exclusions Apply.See an associate for full program details or to enroll.



SIGN UP AND GET \$10 OFF your purchase of \$50 or more

4240 Kearny Mesa Road Suite 120 SAN DIEGO, CA 92111 (858) 279-0355

SALE

1764696 13 005 05699 0266 02/01/18 03:24

QTY SKU

PRICE

****** Custoner Order 2098122376 ***** Documents 1980563 4.14 **Documents** 1980563 81.65 1 1 1/258 Guarant 02.0017 1.24N hap was Guarant 2623897 24.49N

Questions on Customer Order 2098122376 Call Customer Service at 1-800-3STAPLES SUBTOTAL 111,52 Standard Tax 7.7500%

TOTAL

6.65 \$118.17

Visa Credit

USD\$118.17

Card No.: XXXXXXXXXXXXXX9752 [C]

Chip Read

Auth No.: 007790 AID.: A0000000031010

TOTAL ITEMS

Staples brand products. Below Budget. Above Expectations.

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"Find for "



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners

March 15, 2018

FROM:

Chieko Keagy, Controller

me

TO:

Logan Olds, General Manager

SUBJECT:

Resolution 2018-02 Reapportionment of Flow Billing Percentages

RECOMMENDATION

It is recommended that the Board of Commissioners approve Resolution 2018-02 to amend flow billing percentages and approve the flow billing rates as measured by ADS Environmental Services, Inc.

REVIEW BY OTHERS

This recommendation was reviewed by:

Greg Snyder, Town of Apple Valley
David Burkett, City of Hesperia
Tim Millington, County of San Bernardino, Special Districts Department
Brian Gengler, City of Victorville
Piero Dallarda, Legal Counsel
Latif Laari, VVWRA Business Application Manager

BACKGROUND INFORMATION

VVWRA contracts with ADS Environmental Services, Inc. to conduct continuous flow measurement throughout the VVWRA collection system. The data collected is used to determine the percentage of flow the Authority receives from each Member Agency. The actual amount billed to each Member Agency is their percentage of flow measured at the influent flow meter at the wastewater treatment plant. The Member Agencies then meet and discuss the results. Once agreement occurs, the flow study and associated percentages are forwarded to the Board for adoption by Resolution.

FINANCIAL IMPACT

The user fees will be reapportioned among Member Agencies based on the flow study.

Finance Approval:

Fund 01 or 07				
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)				
Transfer from Reserve	Υ[]) и]
If Transfer, from Which Reserve				
Outside Funding Source if applicable				
Change Order	Υ[]	N[J
Original Budget Amount	\$			
Original Contract Amount	\$			
Budget Remaining after the Recommendation	\$			
Contract after Change	\$			

Fund 09		
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)		
Transfer from Reserve	Y[]	N[]
If Transfer, from Which Reserve		
Outside Funding Source		
Change Order	Y[]	N[]
Original Budget Amount	\$	
Original Contract Amount	\$	
Budget Remaining after the Recommendation	\$	
Contract after Change	\$	

RELATED IMPACTS

The purpose of the allocation percentages is to assure each Member Agency only pays for its own portion of flow treated by VVWRA,

RESOLUTION NO. 2018-02

A RESOLUTION OF THE VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY TO AMEND BILLING PERCENTAGES AND APPROVE FLOW BILLING ADJUSTMENTS RELATING TO THE FLOW MONITORING RESULTS AS MEASURED BY ADS ENVIRONMENTAL SERVICES, INC.

WHEREAS, the Victor Valley Wastewater Reclamation Authority ("Authority") is a Joint Powers Authority and Public Agency of the State of California established in 1978 that provides Regional wastewater treatment to a designated Service Area; and

WHEREAS, an amendment to the Victor Valley Regional Wastewater Service Agreement was made and entered into as of August 1, 2005, by and between the Authority and the City of Victorville, the City of Hesperia, the Town of Apple Valley, and the County of San Bernardino Service Areas No. 42 (Oro Grande) and No. 64 (Spring Valley Lake), collectively referred to as "Member Entities"; and

WHEREAS, the Authority provides wastewater treatment service to the Member Entities and issues monthly flow billings to the Member Entities based upon the number of gallons of flow received from each Entity; and

WHEREAS, it was agreed and established in 1998 by the VVWRA Technical Advisory Committee that the local metering stations are inaccurate and do not provide reliable flow data, and it was determined that the Authority would utilize the services of an independent agent to conduct periodic flow monitoring with their own equipment; and

WHEREAS, it was agreed and established that the results of the flow monitoring study would be used to establish percentages with which to apportion the total flow as measured by the Magmeter at the Regional Treatment Plant and determine member entity flow by said percentages for billing purposes; and

WHEREAS, the Commission of the Victor Valley Wastewater Reclamation Authority approved and adopted the flow monitoring results as measured by ADS Environmental Services, Inc., attached hereto as "Exhibit A", and directed staff to make appropriate flow billing adjustments;

NOW, THEREFORE, BE IT RESOLVED that the Commission of the Victor Valley Wastewater Reclamation Authority does hereby amend the flow billing percentages relating to the flow monitoring results as measured by ADS Environmental Services, Inc. and direct staff to implement flow billing adjustments based on the amended billing percentages.

APPROVED AND ADOPTED on this 15th day of March 2018.

Russ Blewett, Chair VVWRA Board of Commissioners

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ATTEST:	APPROVED AS TO FORM:
Scott Nassif, Secretary VVWRA Board of Commissioners	Piero C. Dallarda of Best, Best & Krieger LLP, VVWRA Counsel
CERTIFICATION:	
I do hereby certify that the foregoing is a full, true, a meeting of the Board of Commissioners held on M	and correct copy of a resolution duly and regularly adopted at March 15, 2018.
Kristi Casteel – Clerk of the Board	

EXHIBIT "A"

											Flo July 2014	Flow Study July 2016 - June 2017										
Proposed Flow Allocation Based on July 2816 - June 2017	on July 2816 - June 20	17																				
Measured by ADS	Percentage of Total	July P	Percentage of Total	August	Percentage of Total	September	Percentage of Tetal	October	Percentage of Total	November	Percentage 1	December	Percentage of Total	Jenuary	Percentage February	Percentage March	Percentage	April	Percentage	;		- 12
VSD 1 (feet North Apple Valley) VSD 2	%83	20,8790	6.0118%	20.8020	5.8753%	19.5020	5.9803%	MG 20.8440	5.9747%	MG 20.2850	5.9988%	MG 21.2870	5.7866%	MG 20.5140	% MG	% MG	% ************************************	MG	of total	MG	of Total	June
VSD 3		82,2670	24.2005%	83.7390	24.1241%	80.0750 73 9650	25.4253%	48.4890 88.6190	25,7087%	87.2850	13.7364% 25.2467%	48.7440	13.6367% 25.8190%	48.3430	Corrupted data due to	Corrupted data due to	13.5874%	47.1290	13.4212%	48.5020		15.8840
VSD 5 VSD 6 VSD Total		22,6750		22,4700	0.5926%	1,9670	0.5141%	1.7920	0.5237%	1.7780	7.1838% 0.4864% 6.3460%	1.7260	7.1050% 0.4223% 6.3045%	1.4970	meter malfunction	meter malfunction	7.1880%	24,9320	7.3158%	26.4380		24.4340
		1995390	58.7266%	203.2070	58.6702%	194.7448	59,5191%	207.4520	59.3137%	201.3790	58.9981%	209.3570	59.0781%	209.4360			59.7027%	25.0520	60.4250%	25.2140	60.6019% 2	13.6430
Apple Valley 01 Apple Valley 02 Apple Valley North	11.2764% 3 5.7896% 1 0.0248%	38.2310 19.6290 0.0840	11.2522% 5.8886% 0.1023%	38.9350 20.3760 0.1540	5.9100%	35.7570	5.7372%	36.9650	5.6902%	37.0720	10.8738%	38,5860	10.7660%	38.1650			10.6188%	36.8320		37.0170		5.3320
Apple Total	"	57,9440	17.2431%	59.650	16.8972%	55.7880	16.4727%	57.4150	16.7188%	56.7630	0.1274%	59.0400	0.0832%	59.1030			0.1090%	0.3780	0.094496	0.3410	0.1068%	0.3700
Hesperia	18.1544% 6	61.5500	18.2433%	63.1260	18.7473%	62.2280	18.5490%	64.6520	18.3839%	62.4160	18.5772%	65.9220	18.3797%	65,1570			18.1181%	62.8440	17.8945%	0899 P9		33.4070
CSA 64 SVL CSA 42 Oro Grando	- 0	17.5630	4.9650%	2.8440	4.9236%	16.3430	4.8960%	17.0650	4.9279%	16.7310	5.0721%	17.9990	5.0177%	17.7880			4.7956%	16,6340	4.7462%	17.1520		0000070
CSA Total	5.9002% 2	20.0040	5.7869%	20.0240	5,7753%	19,1700	5.4593%	19.0280	5.5837%	18.9570	5.7868%	20.5350	5.8703%	3,0220			0.7618%	19.2760	6.6957%	2.5140	0.5662%	1.9610
Total Apportioned Flow	100.0000% 33	339.0370 L	100.0000%	346.0220	100.0000%	331.9300	189.0000%	348.5470	100.0000%	339.5150	100.0000%	354.8540	100.0000%	354.5060			100.0000%	346.8570		4	m	346.3130
Mojave Narrowa Regional Park Total Study Flow	33	0.1000		0.1000		0.1000		0.1000		0.1000		0.1000		0 1000				0.1000		0 1000		1000
								0.40000	l	239,0150		354.9540		354.8869				346.9570		361.4840	3	346.4130

Program | Floor Albocation | Program | Floor Albocation | Part |

Measured by ADS	Flow	March	Flow	April	Flow	May	Flow	June	Flow	Anl	Flore	Anamore	Board Approved	Board Approved Flow
	Study %	NGD	Study %	MGD	Study %	MGD	Study %	NG.	Study	(m)	Soudy		Approved on 1/27/2016	a 1/27/2016
VSD 1 (less North Apple Valley)	5,7767%	20.2710	\$ 8610%	10 5450	4 000402	70 7400	A DONACO	1		TOTAL	R	MGD	2	MG
780.5	12 344667	46 0000	40 40444		01.000.0	20.7460	5.10.10%	18.5000	5.8239%	19.5150	5.6556%	19.5480	5.8025%	118.5930
	82.066CT	0026.04	12.1906%	40,6730	12,3448%	42,7630	12.6306%	41.9710	13.2096%	44.2630	79CF30 CI	44 7770	12 783694	361 3720
s dev	25.6803%	90.1140	26.1457%	87.1900	25.6480%	88.8460	26.0652%	86 6170	26059030	OLLO YS	26 23860/	00000	De offense	200,000
VSD 4	7.5368%	26,4470	7.8269%	26.1010	%C5F1 8	28 2170	9 762064	27 62 40	S COCCO	00.2770	23.7 (33%	89.0910	25.8730%	528,8350
7SD 5	A Annes	0.727.1	0.40190	4 4 4 4 4 4			0.7030.0	21.3240	3.323278	18.5140	7.0891%	24.5030	7.4031%	151,3060
760%	- COALC	1000	0.401736	1.4.480	0.4030%	1.3960	0.4382%	1.4560	0.4978%	1.6680	0,4360%	1.5070	0.4326%	8.8410
SED Total	4.71.73	0515.67	7.250390	24,1780	7.0556%	24.4410	6.9336%	23.0400	7.3048%	24.4770	965969	0770.85	7 13079	144 7720
	97.9620.90	210.6480	59.6817%	199.0250	59.5866%	206.4110	60.0592%	199.5740	58.3182%	195,4140	58.8768%	203.5030	59.4270%	1,214.5750
upple Valley 01	11.0157%	38,6550	10.8886%	36,3110	10.8474%	37.5760	10.7154%	35 6070	10 023092	36 8050	10.61990/	00000	10.010.01	201 408
Apple Valley 02	5.4949%	19,2820	5.6469%	18.8310	\$ 600.4%	10 4000	A 47010x	00000	0000000	30.000	10.018876	36.7030	10.8435%	221.6570
Apple Valley North	0.27539%	n sken	0 202762	0.0750	200000	2000	0.1074.0	10.1770	3,3214%	12.5420	5,8367%	20.1740	5.6662%	115,8060
Apple Total	16 70500/.	60 0010	16 04000	2000	0.3020.30	7.0400	0.2814%	0.9350	0.2376%	0.7960	0.2514%	0.8690	0.2734%	5.5880
	2000	20.7020	10,020270	20.1180	10.7498%	S8.0220	16.4669%	54.7190	17.1729%	57.5430	16.7069%	57.7460	16.7849%	343.0510
fesperit	17.9854%	63.1120	18.0423%	60.1670	17.9816%	62.2890	17.5636%	58,3630	18,4835%	61.9350	18,3681%	63.4880	18,0718%	369,3540
CSA 64 SVI. CSA 42 Oro Grande	4.4864%	2.5010	4.6981%	15.6670	4.9650%	17.1990	4.8460%	16.1030	4.8827%	16.3610	4.8996%	16.9350	4.7954%	98,0030
CSA Total	£ 100197	19 7440	2 447007	.0		7.1040	1.V045378	3,3370	1.142/76	3.8250	1.1486%	3.9700	0.9209%	18.8210
	3133174	10.2440	3244/876	18.1670	5.6822%	19.6830	5.9103%	19.6400	6.0254%	20,1900	6.0482%	20,9050	\$7163%	116.8290
fotal Apportioned Flow	100.0000%	350,9070	100.0000%	333.4770	100.0002%	346.4050	100.0060%	332.2960	1.00.0000%	335.0820	100.0000%	345.6420	100.0000%	2,043.8090
Mojavo Narrowa Hearmit Park		0.1000		0.1000		0.1000		0.1000		00000		1000		
Total Study Flow		351.0070		333 5770		240 5050				0.1000		0.1000		0.0000

VVWRA	Flow Measured by ADS	June 2017

	AppleValley Not MP1 QFINAL	AppleValley No2 MP1 QFINAL	CSA 42 MP1 QFENAL	CSA 64 MP1 QPINAL	Hesperia MP1 QFINAL	NAVI MPI QFINAL	VSD No1 MP1 Less NAVI	VSD No2 MP1 QFTINAL	VSD No3 MP1 QFINAL	VSD No4 MP1 QFINAL	VSD NoS MP1 QFUNAL	VSD No6 MP1 QFINAL	ADS Totals	COVV IWWTP Wastewater	WY COVV INWITE SA64	Part	ADS+Unmetered Flow	Mag Meter Flow Data	Variance
Date	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Callons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million	Million	Million	Million	Million Gallons	Million	Million
1/2017	1.2000	0.6700	0.0740	0.5460	2.0430	0.0110	0.7400	1 2770	2.0010	OPPO O	00000				e common	Curlotte		CABILODS	CHROES
7,102/2	1.2040	0.6670	0.0710	0.5310	2.0780	0.0120	0.7170	1.2000	3.0610	0.2270	0.0650	1.0170	11.5510	00000	0.0333	0.0033	10.4170	10.5810	-0.1640
3/2017	1.2040	0.6920	0.0720	0.5480	2 1180	0110	0.700.0	1.2300	2.0340	0.8180	0.0000	1.0120	11.5190	0.0000	0.0333	0.0033	10.3970	10.3740	0.0230
4/2017	1.2010	0.6790	0.0670	0.5660	2 (920)	01100	0.7000	1,2000	3.1140	0.8480	0.0660	1,0090	11.6540	0.0000	0.0333	0.0033	10.3390	10.3240	0.0150
5/2017	1.2080	0.6690	0.0640	0.5480	2 0660	0.0170	0.720	0.02.0	3,2030	0.8580	0.0650	1.0430	11.7800	0.0000	0.0333	0.0033	10.5760	10.5770	-0.0010
6/6/2017	1.1990	0.6590	0.0590	0.5550	2.0570	0.0120	0.0700	1 4200	3.1090	0.8200	0.0660	1.0510	11.5570	0.0000	0.0333	0.0033	10.7880	10.3710	0.4170
7102/1	1.2040	0.6610	0.0580	0195.0	2 0750	0,0130	0.7010	00001	3.0390	0.8280	0.0660	0.8480	11.4890	0.0000	0.0333	0.0033	10,5400	10.2070	0.3330
8/2017	1.1850	0.6940	0.0640	0 5460	0.50 5	00100	0.7040	0666.1	3.0750	0.8140	0.0660	0,7150	11.5360	0.000.0	0.0333	0.0033	10.6350	10.3810	0.2540
9/2017	1.1940	0.6840	0.0660	0.5440	2.0890	0,0120	0.6660	1.3530	3.0370	0.8220	0.0650	0.7250	11.5140	0.0000	0.0333	0.0033	10.3620	10.1990	0.1630
0/2017	1.1820	0.6720	0.0620	0.3560	2,0970	0.0130	0.0330	0.0410	3.0050	0.8440	0.0660	0.7640	11.6290	0.0000	0.0333	0.0033	10.6630	10.4780	0.1850
1/2017	1.1600	0.6720	0.0640	0.5480	2 0710	001100	0.0720	0/807	3.1250	0.8670	0.0680	0.7750	11.6760	0.0000	0.0333	0.0033	10.4720	10.5580	-0.0860
2/2017	1.1810	0.6650	0.0660	0.5500	20070	01100	0,000,0	1.5/40	3.1470	0.8460	0.0680	0.7550	11.5850	0.0000	0.0333	0.0033	10.3530	10.4660	-0.1130
3/2017	1.1860	0.6600	0.0670	0.5220	2 0560	0.0100	0.07.0	1.2400	3.1050	0.8300	0.0680	0.7330	11.1730	0.0000	0.0333	0.0033	10.6230	9.9590	0.6640
4/2017	1.1530	0.6260	0.0650	0.5360	2 0660	0.0120	0.0000	07171	0780.5	0.7960	0.0700	0,7040	11.6090	0.0000	0.0333	0.0033	19.2540	10.1570	0.0970
5/2017	1.0550	0.6590	0.0640	0.5360	2.0620	0.0140	0.6670	16310	3.1020	0.7740	00/00	0.7130	11.4120	0.0000	0.0333	0.0033	10.4930	10.2170	0.2760
5/2017	1.2420	0.6820	0.0660	0.5290	2.1000	0.0120	0.6550	01667	3.0780	0.7780	0.0700	0.7100	11.2850	0.0000	0.0333	0.0033	10.5810	9.8400	0.7410
772017	1.2000	0.6940	0.0670	0.5320	2 1030	0.0140	0.0000	00001	3,0360	0.7860	0.0720	0.7390	11.6260	0.000.0	0.0333	0.0033	9.5670	10.3470	-0.7800
8/2017	1.1350	0.6570	0.0620	0.5460	2.0950	0.010	0.6730	0,500	3.1010	0.6990	00700	0.7300	11.6070	0.0000	0.0333	0.0033	9.9670	10.1600	-0.1930
9/2017	1.0450	0.6570	0.0650	0.5540	2 0800	0.0130	06500	1.0120	3.1040	0.8090	0.0710	0.7320	11.5070	0.0000	0.0333	0.0033	10.3890	10.2800	0.1090
5/2017	1.2820	0.6510	0,0660	0.5460	2.1220	0.0130	0.6540	1,6050	3.2000	0.8160	0.0740	0.7360	11.5370	0.0000	0.0333	0.0033	10.4380	8.8720	1.5660
1/2017	1.1660	0.6390	0.0680	0.5480	2.0920	0.0140	0,6740	1 6740	2,1220	0.0030	0.0/00	0.7400	11.6810	0.0000	0.0333	0.0033	10.2970	9.6810	0.6160
2/2017	1.1450	0.6370	0.0670	0.5390	2.0880	0.0120	0,6730	05721	3.1320	0.5120	06/070	0.7350	11.5830	0.0000	0.0333	0.0033	10.4740	9.8150	0.6590
3/2017	1.2400	0.6680	0.0650	0.5530	2.0870	0.0120	0.6580	02201	2 1790	0.7090	0.0780	0.7290	11,5090	0.0000	0.0333	0.0033	10.3590	9.9640	0.3950
1/2017	1.1580	0.6830	0.0650	0.6020	2.1100	0.0120	019910	1 6650	2 2020	0.0120	0,000	000/20	11.7270	0.0000	0.0333	0.0033	10.3510	10.8570	-0.5060
5/2017	1.1530	0.6520	0.0700	0.5730	2.0710	00110	0.6560	1 6020	2 2400	0.9130	0.0730	0.7550	11.7940	0.0000	0.0333	0.0033	10.2990	11.9110	-1.6120
6/26/2017	1.1620	0.6570	0.0640	0.5540	2 1060	0.0130	0.6650	1 6200	0374.6	0.9230	0.0770	0.7560	11.6950	0.0000	0.0333	0.0033	10.3950	11.0300	-0.6350
7/2017	1.1720	0.5880	0.0650	0.5320	2.1240	0.0130	0.6700	1,6010	2.1000	0.0180	0.0800	0.7460	11.6590	0.0000	0.0333	0.0033	10.0760	10.3360	-0.2600
6/28/2017	1.1450	0.6490	0.0660	0.5540	2.0690	0.0130	0.6700	0100.1	2.1430	0,1900	0.0790	0.7290	11.5310	0.0000	0.0333	0.0033	10,2250	10,1120	0.1130
6/29/2017	1.1520	0.5800	00900	0.5410	2.1300	0.0130	0.6330	1,5110	2.1420	0.9030	0.0770	0.7300	11.5360	0.0000	0.0333	0.0033	10.8810	10.5230	0.3580
6/30/2017	1.2190	0.6420	0.0620	0.5510	2.1050	0.0120	0.6610	1 6350	3.0830	0.5020	0.0750	0.7240	11.3810	0.0000	0.0333	0.0033	10.3260	10.2670	0.0590
Totals	36.3320	1, 7650	1.9610	16.4470	62 5660	0.3700	30,2620	45 1840	93.5050	24.4340	2.1440	23,6430	346,3136	0,0000	0.0333	0.0033	10.0250	10.2020 309 04K0	-0.1770
8	3D I data was revised	VSD I data was revised to exclude NAVI flow.	W.															Variance %	0.8141%

VSD 1 data was revised to exclude NAVI flow; CSA64 Mojave Narrows added 0.1MG by screenent

15-7



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners

15 March 2018

FROM:

Logan Olds, General Manager

TO:

Board of Commissioners

SUBJECT:

Recommendation to approve FINAL Change Order No. 7 for the Hesperia Subregional

Construction Project Contract #10943 with W.M. Lyles Co. of a net increase in the

amount of \$157,227.17

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the approval of FINAL Change Order No. 7 for the Hesperia Subregional Construction Contract #10943 with W.M. Lyles Co. as dated 28 February 2018 in a net increase in the contract by the amount of \$157,227.17 for a contract total of \$34,146,511.39. There is no time impact in this Change Order. The proposed Change Order #7 is attached.

REVIEW BY OTHERS

This recommendation has been prepared by Logan Olds, General Manager and reviewed by the VVWRA Engineering Committee including Tim Millington, David Burket, Brian Gengler and Greg Snyder.

BACKGROUND INFORMATION

As requested by the Board all potential change orders for the Subregional Project are taken to the VVWRA Engineering Committee for review and comment. Upon review by the VVWRA Engineering Committee on March 5, 2018 it was the consensus of the members present to place this staff recommendation for Change Order No. 7 before the VVWRA Board for approval.

The Subregional Project in Hesperia has completed construction. The Hesperia portion of the overall project has reached Substantial Completion and VVWRA staff are currently performing operational testing. The total construction change order percentage for the Hesperia subregional is 2.79%; this is quite good when industry standard is at 10%.

This Change Order No. 7 contains multiple items. The numbering system of the items is based on the potential change order (PCO) tracking. Backup material is attached to the change order for each of the items. The original contract and Change Orders are shown in the following Table.

Change Order	Amount	% CO
1	0	0%
2	(\$82,532.28)	-0.25%
3	\$201,010.27	0.61%
4	\$154,027.13	0.46%
5	\$435,693.09	1.31%
6	\$61,086.01	0.18%
7	\$157,227.17	0.47%
Total	\$769,284.22	2.79%

This Change Order No. 7 deals with electrical items and staff requests for the WRP. Multiple RFI and Design Clarifications have been communicated through the construction team of VVWRA, Design Engineers, CM Consultant, General Contractor, and Sub-Contractors. Items come from conflicting information in the Bid Documents, requests from VVWRA Operations and Maintenance, and input for a better system from the Contractor. A summary of this Change Order Items follows:

Item No.	Description	Amount
52R	COH - DCM 100 - Deletion of Membrane Coating	\$ 25,307.10
73	COH - RFI 398 - Feed Forward Pumps Functionality	\$ 2,262.14
80	COH - Incorporation of safety shower flow switch signal into SCADA	\$ 1,655.13
83	COH - DC 121 4" Gas Main Addition	\$ 38,358.28
84	COH - RFI 356 Added Ethernet Switch for Cameras	\$ 1,194.65
86	COH - DC 122 VFD Wiring Modifications	\$ 13,426.11
87	COH - DC 114 - MBR Instrument Air Compressor Electrical Changes	\$ (1,036.50)
90	COH - DC 119 - Supervisory Relay Modifications	\$ 5,196.64
91	COH - DC 123 Damper & Make Up Air Unit Controls & FM 200	\$ 34,716.62
92	COH - Modifications to Process Drain Pump Station Level Indicating Transmitter	\$ 12,002.57
93	COH - Addition of a Dedicated Receptacle for PLC UPS	\$ 2,737.72
94	COH - MBR Basin 16" Knife Gate Valve Body Change	\$ 22,330.58
95	COH - Fiberglass Double Door Inactive Leaf Flush Bolt & Astragal	\$ 1,052.02
96	COH- DC-74R Modification to Water Heater Solenoid Valve Control Strategy	\$ 3,484.50
97	COH - Process Blower Intake Pipe Supports	\$ 10,908.52
98	COH - Bid Item B15 Bid Item B15 Credit for Unused Permit Fees	\$ (10,000.00)
99	COH - Bid Item B16 Credit for Unused Allowance - Line Item B16 MBR Electrical	\$ (5,439.95)
100	COH - Bid Item C1 Credit for Unused Allowance - Line Item C1 Owners Reserve	\$ (928.96)

TOTAL \$ 157,227.17

The approved SRF loan includes contingency for this change order in the amount of \$2,222,795.00 of which \$1,385,041.00 has been requested to date. Of the approved state revolving fund change order contingency there will be a remaining balance of approximately \$680,526.00. VVWRA staff has been working with SRF staff to reallocate those remaining funds towards soft costs. As of 31 January 2018 there remained an additional \$4,662,055.00 to finalize costs (construction, construction management and engineering services) associated with the Hesperia subregional project.

The total of these items is a net increase of \$157,227.17 and no impact to the project construction time. The Change Order No 7 is attached with supporting documentation. Staff has reviewed and agrees with the items within this Change Order. The VVWRA Engineering Committee and VVWRA Staff met on October 5, 2017 to review the list of Potential Change Orders. Staff presented a summary and responded to the committee questions. The Committee evaluated the material and agreed that this Change Order 7 be presented to the Board for approval. As mentioned previously the project is well under a 10% construction change order contingency.

Staff recommends that the Board authorize the approval of Change Order No. 7 Hesperia Subregional Construction Contract #10943 with W.M. Lyles Co. as dated 28 February 2018.

FINANCIAL IMPACT

Fund 01 or 07				
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)				
Transfer Needed due to Insufficient Budget	Y[]	Ν[1
If Transfer, from Which Account String or Reserve				
Budgeted Amount Where Money Comes from				
Budget Remaining after the Recommendation				
Outside Funding Source if applicable	\$			
Original Contract Amount	\$			
Change Order	Υ[]	N[]
Contract after Change	\$			

Finance	Approval:	
---------	-----------	--

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	09-54-500- 9000, C101
Transfer Needed due to Insufficient Budget	Y[] N[x]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	SRF Loan
Budget Remaining after the Recommendation	\$0
Outside Funding Source	\$44,522,846.00
Original Contract Amount	\$33,220,000.00
Change Order	Y[x] N[]
Contract after Change	\$34,146,511.39

The expense is an increase of \$157,227.17 to FY17/18 Budget Account, 09-54-500-9000, C101.

RELATED IMPACTS

The approved SRF loan includes contingency for this change order.

Sub-Regional WRP Projects Sub Regional WRP Projects





COH - DCM 100 - Deletion of

Membrane Coating

Type: RFC - Request for Change

Contract:

10943 - Hesperia W M Lyles Co

ISO Currency Code: Purchase Order:

USD

Contract # 10943 - Hesperia Priority:

Submitted:

Submitted To:

09/08/2016

d To: EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Andrew Gilmore, EADOC-VVWRA

-Sub-R - Grant Gourley

Status:

Pending Medium

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created: 09/08/2016

Contractor's PCO #:

Reason:

Owner Request

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

118,477.99

Amount Added:

25,507.82 143,985.81

New Approved Amount:
Current Contract Duration:

821

Davs Added:

0

New Contract Duration:

821

Budget :

Funding:

Cost Item:

Locations

Element B1 - Hesperia WRP - Vol-05 - 03 - Membrane Filtration Basins

Sub-Regional WRP Projects Sub Regional WRP Projects

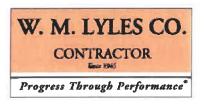
Printed 03/01/2018, Page 2 of 2

References

Correspondence # 91 DCM # 100 DCM 100 - Deletion of Membrane Coating DC 100 - Deletion of Membrane Coating Requirement Closed Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	timated Cost Change	%	A	Adjusted Cost Change
1	Labor	\$	-		\$	-
2	Materials	\$		2.0	\$	
3	Equipment	\$	-		\$	
					\$	
	Total	\$	-		\$	-
	Markup	\$	-	15%	\$	
ubs	Subtotal	\$	-		\$	
4	CorRay	\$	24,052.63		\$	20,735.
		\$	-		\$	
		\$	-		\$	-
		\$			\$	
	Subcontract Subtotal	\$	24,052.63		\$	20,735.
	Subontractro Bond & Ins	\$	240.53	1%		
	Subtotal	\$	24,293.16		\$	20,735.0
	GC-Subcontractor Markup	\$	1,214.66	5%	\$	1,036.7
	Total	\$	25,507.82		\$	21,771.7
	Subcontractor OH&P			15%	\$	3,110.2
	Subcontractor Bond & Ins			1%	\$	207.3
	GC Bond & Ins	\$	255.08	1%	\$	217.7
	Total	_	25,762.90		\$	25,307.1



California Contractor's License No. 422390

Southern Division - **Temecula Office** 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

An Equal Opportunity Employer

January 16, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-52 Membrane Coating Deletion

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in RFI response 305 to delete the coating on the concrete within the membrane basins. The direction came after Cor-Ray Painting Inc. (CRP) had already completed the surface preparation of the concrete and ordered the specified material. CRP was able to return the specified material for a re-stocking fee. Their credit to eliminate the concrete coating within the Membrane Basin is attached titled PCO-004.

CRP was then directed within DCM100 to apply SikaSeal 107 to the walls of the Membrane Basins. This work was completed on a time and material basis and their backup is attached titled PCO-005.

The overall Cost for this change is:

CRP COR-004 <\$21,792.46> CRP COR-005 \$45,845.10 WML Markup \$1,202.63 WML Bond \$252.55

Total \$25,507.82

\$25,307.10

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley - WML Project Executive



Painting • Sandblasting • Fireproofing • Specialty Coatings ISO 9001:2008 Certified

August 31, 2016

CRPC Ref. 305367

W.M. Lyles

Attn: Bryan Case/Grant Gourley

Re: VVWRA Subregional Water Reclamation Plants Project

Subject: PCO-004 Credit for Membrane Coatings

Bryan/Grant

Reference is made to RFI 305 deleting the membrane basin coating at both sites from Cor-Ray Painting Company's (CRPC'S) scope of work. CRPC is offering the individual site credits below based on the SOV value and whether any work was performed. Please see the attached spreadsheets for calculations.

Apple Valley WRP Membrane Basin--

No work was performed at this site. Credit is based on original labor, materials and equipment plus profit and overhead.

AVWRP Membrane Basin Credit

\$40 524 81

Hesperia WRP Membrane Basin--

Abrasive blasting was performed on the concrete surfaces at this site. Additionally, material was ordered. A return freight and restocking fee was charged. Credit is based on original labor, materials and equipment plus profit and overhead.

Hesperia Membrane Basin Credit

\$21,792.46

Total Credit for PCO 004 is:

\$62,317.27

Please review and contact me if you have any questions.

Respectfully,

Craig R. Borel

Craig R. Borel

COR-RAY PAINTING CO.
STATE OF CA LIC. 233474 A/C33, C35 - STATE OF CA. PWC REG 1000004748
10114 SHOEMAKER AVENUE - SANTA FE SPRINGS, CALIFORNIA 90670
PHONE (562) 906-9770- FAX (562) 906-6104 www.cortaypainting.com

PROJECT NAME: ESTIMATOR: DATE:		HWRP-	ВО	BASIN CREDIT PREL /2016		
BID NUMBER		wo		RFORMED		
<u>ITEM</u>	HOURS/GALS	UNIT .	COST			
LABOR	120	64	\$	7,680.00		
EQUIP		15	\$	1,800.00		
CONSUMABLES		2	\$	240.00		
INDIRECTS		4	\$	480.00		
MATERIAL-PAINT	1	0	\$	-		
MATERIAL-ABR	17	295	\$	5,015.00		
TAX		9.00%	\$	451.35		
FREIGHT CHARGE						
FOR RETURNED						
MAT'LS	1	\$ 2,616.00	\$	2,616.00		
SUPER	6	75	\$	450.00		
					•	
COST SUBTOTAL			\$	18,732.35	COST FOR WORK PERFORMED	\$ 18,732.35
MARGIN		0.00%	\$	**		
SELL			\$	18,732.35		
PROJECT NAME: ESTIMATOR: DATE: BID NUMBER ITEM	HOURS/GALS	ORIG	BO 8/18/	BASIN CREDIT REL /2016 ESTIMATE		
	11					
LABOR	337			21,568.00		
EQUIP		15	\$	5,055.00		
CONSUMABLES		2	\$	674.00		
INDIRECTS		4	\$	1,348.00		
MATERIAL-PAINT	1		-	4,724.50		
MATERIAL-ABR	17		•	5,015.00		
TAX		9.00%	\$	876.56		

75 \$

\$ **21.05%** \$ \$

16.85

SUPER

MARGIN

SELL.

COST SUBTOTAL

1,263.75

40,524.81

10,802.69 ORIGINAL MARGIN

CREDIT

BUDGET VALUE

51,327.50 SUBTOTAL

\$10,802.69

\$ 29,535.04

\$51,327.50

\$ 21,792.46

THE SHERWIN-WILLIAMS CO. 7613 SOMERSET BLVD **PARAMOUNT CA 90723 4129**



	ACCOUNT: 6769-9523-4
--	----------------------

Visit www.sherwin-williams.com Store 8544 (562) 531-1850 JOB 20 VVWRA

CHARGE CORRECT No. 6532-2

APPRVL

COR-RAY PAINTING CO ATTN: ACCOUNTS PAYABLE 10114 SHOEMAKER AVE SANTA FE SPGS CA 90670 3404

PAGE 1 OF 1 PO# 305497

DATE: 04/19/2016 TIME: 12:54 PM 2-4954 E71/17385

(562) 447-2579

ALES NUMBER	SIZE	PRODUCT	DESCRIPTION	QTY	PRICE	VALUE
*****	****	www.www.er.com	************CHANGED E	ROM*************		
6403-88757	LG DRM	B65H910	SHFLEX BEIGE A			
6403-88880	LG DRM	B65V910	SHFLEX B	159	-33.00	-5,247.00
0400-C0+0	TO DIVIN	5007870	GITTEN B	53	-33.00	-1,749.00
				SUBTOTAL BEFORE TAX 9.000%;1-059072300		-6996.00 -629.64
***	****	****	*******CHANGE) TO******************	****	****
5599-2211	EACH	RESTOCK00	RESTOCK ON RET GOODS	1	2,400.00	2,400.00
		_		SUSTOTAL BEFORE TAX	m, 103100	2400.00
				9.000%:1-059072300		216.00
	设力资格分类收收	有有有有有有实验的有的有效的 。	Thank You		*******	
ORIGINAL TERM: 173 TRAN: <u>621</u>	85 62	**************************************	Thenk You receipt required for refund	SUBTOTAL BEFORE TAX 9.000% SALES TAX:1-05907230 CORRECT SUBTOTAL		-4596.00 -413.64 -4596.00
ORIGINAL TERM: 173 TRAN: <u>621</u>	85	**************************************	Thenk You	SUBTOTAL BEFORE TAX 9.000% SALES TAX:1-05907230		-4596.00 -413.64
ORIGINAL TERM: 173 TRAN: <u>621</u>	85 62	物育 机杂黄金 沙哈 索勒 公债	Thenk You	SUBTOTAL BEFORE YAX 9.000% SALES TAX:1-05907230 CORRECT SUBTOTAL TOTAL TAX DUE CUSTOMER		-4596.00 -413.64 -4596.00 -413.64
ORIGINAL TERM: 173 TRAN: <u>621</u> DATE: 04/0	85 62	传教·安安·安安·安安·安安·安安·安安·安安·安安·安安·安安·安安·安安·安安	Thenk You	SUBTOTAL BEFORE YAX 9.000% SALES TAX:1-05907230 CORRECT SUBTOTAL TOTAL TAX DUE CUSTOMER		-4596.00 -413.64 -4596.00 -413.64
ORIGINAL TERM: 173 TRAN: <u>621</u> DATE: 04/0	85 62	· · · · · · · · · · · · · · · · · · ·	Thenk You	SUBTOTAL BEFORE YAX 9.000% SALES TAX:1-05907230 CORRECT SUBTOTAL TOTAL YAX DUE CUSTOMER		-4596.00 -413.64 -4596.00 -413.64

IT'S OUR POLICY

-Customer satisfaction guaranteed on every product we sell.
-Merchandise (other than tinted paint) may be returned in good condition with proof of purchase within 30 days.

-Small deposit required on all special orders.

-75% refund on returns of special ordered wallcovering. Sorry, cut rolls not returnable.

-Freight extra on blinds & wallpaper book orders.

-A service fee will be charged for all returned chacks. See Store Manager for details.

305369



Painting • Sandblasting • Fireproofing • Specialty Coatings ISO 9001:2008 Certified

November 29, 2016

CRPC Ref. 305369

W.M. Lyles

Attn: Bryan Case/Grant Gourley

Re: VVWRA Subregional Water Reclamation Plants Project

Subject: PCO-005 HWRP Membrane Basin T & M Work (RFI 305 & DCM 100)

Bryan/Grant,

Cor-Ray Painting Company (CRPC) is requesting a change order for application of SikaSeal 107 to the Hesperia WRP membrane basin. Please reference RFI 305 and DCM 100. Documentation for material, labor and equipment is attached.

Total Request for PCO-005 is:

\$45,845.10

Please review and provide a change order at your earliest convenience.

Respectfully,

Craig R. Borel

TIME & MATERIAL RECAP

DATE	09/28/16		OWNER	INITIATED	Х		REF# PCO-005
JOB NO.	305369)	CONTRACTO	OR INITIATED			
JOB NAME		VVW	RA-VICTO		(HESP	ERIA SITE	<u> </u>
DESCRIPTION OF WORK		Т&М	MEMBRANE	BASIN RECOA	TING-SIKAT	FOP/HUB 100)
TICKET NO. (S)						10171102 101	
TICKET DATE(S)				2/23/16 - 3/3	2/16		
CRAFT LABOR	ST HR	ST RATE	OT HR	OT RATE	DT HR	DT RATE	AMOUNT
Painter Foreman	51	\$ 57.46	0	\$ 77.50	0	\$ 97.54	
Painter	413	\$ 53.85	0	\$ 72.17	0	\$ 90.50	
LABOR SUBTOTAL							\$25,170.51
LABOR MARK-UP						15%	\$3,775.58
LABOR TOTAL							\$28,946.09
	-1			QUAN STD			
EQUIPMENT tal Rate in effect at the time work is performed	QUAN REG	UOM	RATE	BY	UOM	RATE	
ent is CRPC owned equipment	-						
Pick Up Truck*	128	HR	\$ 26.95	0	HR	\$ 21.56	\$3,449.60
Scaffold Rental	1	LS	\$ 1,377.69	0	LS	\$ -	\$1,377.69
185 CFM Compressor*	84	HR	\$ 87.11	0	HR	\$ 52.27	\$7,317.24
Canned Sand Blast Pot	0	HR	\$ 22.00	0	HR	\$ 17.60	\$0.00
Air Dryer	0	HR	\$ 30.00	0	HR	\$ 24.00	\$0.00
Water Blaster	8	HR	\$ 15.00	0	HR	\$ 15.00	\$120.00
20 KW Generator	0	HR	\$ 28.13	0	HR	\$ 16.88	\$0.00
Forklift*	0	HR	\$ 46.02	0	HR	\$ 32.21	\$0.00
EQUIPMENT SUBTOTAL						[\$12,264.53
EQUIPMENT MARK-UP						15%	\$1,839.68
EQUIPMENT TOTAL						[\$14,104.21
MATERIAL	QUAN	ÚOM	RATE				
SikaTop Seal 107	48	KITS	\$46.45			Г	\$2,229.60
Hub 100 II Grout	27	BAGS	\$0.00			1	
Material 3	0	BAGS	\$0.00			+	\$0.00
Material 4	0	_	\$0.00			-	\$0.00
Material 5	0	-	\$0.00			-	\$0.00
						-	\$0.00
Material 6	0		\$0.00			-	\$0.00
Material 7	0		\$0.00			-	\$0.00
Material 8	(Material invoice	s will be used as	\$0.00 s primary form of	f billing)		L	\$0.00
Sales Tax	_					9.0%	200.664
MATERIAL SUBTOTAL							\$2,430.26
MATERIAL MARK-UP					- 1	15%	\$364.54
MATERIAL TOTAL							\$2,794.80
SUBTOTAL							\$45,845.10
					1	Ant:	
BOND					1	1%	\$458.45

T:/ISO 9001:2008/Documents Internal/!!CURRENT/Time and Material Recap Template Rev.1

	8/24/16 8																	Totals
Ticket #->	4731	4821	4733	4815	4730	4732	3600	3631	3632	3604	3603	3605	3606	3607	3609	3608	3601	
LABOR CLASS												_			_			
Painter Foreman	4	8	8		4	8	2		2	1	1	1	В			1	3	
Rainter		8	8	32	32	24	32	32	32	32	32	25	24	24	32	32	12	
Overtime LABOR CLASS																		
Painter Foreman											5 114					1		
Journeyman Painter									_1									
Double Time LABOR CLASS																		
Painter Foreman																		
Journeyman Painter																		10
EQUIPMENT CLASS REG																		Totals
Pick Up Truck*	4	8	8	8	8	8	8	В	8	8	8	8	8	8	8	8	4	
Scaffold Rental	1		-											- 1				
185 CFM Compressor*				8		8	8	4	8	8	8	8	8	8		8		
Canned Sand Blast Pot																		
Air Dryer																		
Water Blaster		8		200							14						3113	
20 KW Generator																		
Forklift*																- 1		
QUIPMENT CLASS STD BY / DELAY																		Totals
Pick Up Truck										1								
185 CFM Compressor					- 3						7/1							
935 Compressor																-		
Canned Sand Blast Pot																		
Air Dryer																		
2500 CFM DH Unit																		
20 KW Generator											1							
Forklift																		
MATERIAL CLASS																		Totals
SikaTop Seat 107			- 31	9	- 6					2	3	. 5	7	6		10		
Hub 100 II Grout						5	5	2	9	6		1.3						
Material 3											1							
Material 4											V						-11/2	
Material 5				-							5 5 1				1			
Material 6			-		- 1						- 11							
Material 7												- (
Material 8															- 0			

NDUSTRIAL PREVAILING / FULL SCALE	## STATE INDUSTRIAL PREVAILING / FULL SCALE ## STATE SAUGH FICA MEDICARE FUI COMP H&W ## PAY \$1.55 \$4.07 \$2.11 \$2.11 \$0.49 \$0.20 \$1.94 \$0.55 ## STATE \$4.87 \$2.11 \$2.11 \$0.49 \$0.20 \$1.94 \$0.55 ## STATE \$4.87 \$2.30 \$2.30 \$0.54 \$2.11 \$0.55 ## STATE \$1.55 \$4.83 \$3.40 \$3.50 \$1.56 \$3.50 \$3.50 ## STATE \$1.55 \$2.30 \$2.30 \$0.54 \$2.21 \$0.55 ## STATE \$1.55 \$2.30 \$2.30 \$0.54 \$2.21 \$0.55 ## STATE \$1.55 \$2.30 \$2.42 \$0.55 \$0.54 \$2.23 \$0.55 ## STATE \$1.55 \$2.83 \$3.55	NDUSTRIAL PREVAILING / FULL SCALE						SOUTH	SOUTHERN CA - LABOR RATES	OR RATES						
BASE VACATION WAGE 6.20% 6.20% 1.65% 0.60% 5.70% 88.05 83.05 83.5% 1.55 66.28 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.55 67.83 3.59 7.70 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.0	PAYROLL TAXES PAYROLL TAXE	BASE VACATION WAGE S.U FICA MEDICARE F.U COMP H.8.W PENSITE					INDUS		PREVAIL	NG / FL						
BASE VACATION WAGE S.11 S.11 S.12 S.1	BASE VACATION WAGE 6.20% 1.46% 0.60% 5.70% 1.84 PENSI 65.04 1.55 86.59 4.73 4.13 0.57 0.40 0.33 2.11 8.05 1.12 8.05 1.12 8.05 1.12 8.05 1.13 8.05 1.14 8.05 1.15 8.05	BASE VACATION WAGE S.U FICA MEDICARE F.U COMP H.a.W PENSI														
BASE VACATION WAGE SUI FICA MEDICARE FUI WORKERS H & W PENSI PAY \$1.55 6.20% 6.20% 1.45% 0.60% 5.70% \$8.05 \$3.0 1.2.7 6.20% 1.45% 0.20 1.94 8.05 \$3.0 2.2.8 50.33 3.12 3.12 0.73 0.30 1.94 8.05 46.78 1.55 50.33 3.12 3.12 0.77 0.30 1.94 8.05 65.04 1.55 56.89 4.13 4.13 0.97 0.40 1.94 8.05 55.28 1.55 56.89 4.13 4.13 0.97 0.44 2.11 8.05 55.28 1.55 56.83 3.40 3.40 0.80 0.32 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 56.28 1.55 38.07 2.42	BASE VACATION TAXABLE SUI FICA MEDICARE FUI WORKERS H & W PENSI PAY \$1.55 8.155 8.407 2.11 E.20% 6.20% 6.70% 5.70% \$8.05 \$3.0 32.52 \$1.55 81.55 34.07 2.11 2.11 0.49 0.20 1.94 8.05 65.04 1.56 66.59 4.13 4.13 4.13 0.97 0.40 1.94 8.05 65.04 1.56 66.59 4.13 4.13 0.97 0.40 1.94 8.05 65.04 1.56 66.59 4.13 4.13 0.97 0.40 1.94 8.05 71.04 1.56 54.83 3.40 3.40 0.80 0.33 2.11 8.05 8.628 1.56 57.83 4.50 4.50 1.06 0.44 2.11 8.05 8.628 1.56 35.07 2.42 2.42 0.57 0.23 <th> PAYROLL TAXES PAYROLL TAXE</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>8)</th> <th>/1/2016 till 6/30</th> <th>/2017</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	PAYROLL TAXES PAYROLL TAXE						8)	/1/2016 till 6/30	/2017						
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PAY \$155 6.20% 6.20% 1.45% 0.60% 5.70% 58.05 53.00 32.52 \$1.55 34.07 2.11 2.11 0.49 0.20 1.94 8.05 48.78 1.55 56.33 3.12 3.12 0.73 0.30 1.94 8.05 55.28 1.55 54.87 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.54 0.22 2.11 8.05 53.28 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 56.28 1.55 33.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 57.50 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 57.50 1.55 76.59 4.75 1.11 0.46 2.23 8.05 57.50 1.55 76.59 4.75 1.11 0.46 2.23 8.05 57.50 1.55 76.59 4.75 1.11 0.46 2.23 8.05 57.50 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 57.50 1.50 1.50 1.50 1.50 1.50 1.50 57.50 1.50 1.50 1.50 1.50 1.50 57.50 1.50 1.50 1.50 1.50 1.50 57.50 1.	PAY \$1.55 5.20% 6.20% 1.45% 0.60% 5.70% 58.05 53.00	PAY \$1.55 \$1.50 \$1.20% \$1.20% \$1.45% \$0.60% \$5.70% \$38.05 \$3.50		BASE	VACATION	TAXABLE	SUI	FICA	MEDICARE	5	WORKERS	¥ %	PENSION		APPR	1
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32.52 \$1.55 34.07 2.11 2.11 0.49 0.20 1.94 8.05 48.78 1.55 50.33 3.12 0.73 0.30 1.94 8.05 65.04 1.55 50.33 3.12 0.73 0.30 1.94 8.05 65.04 1.55 50.33 3.12 0.73 0.40 1.94 8.05 35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 71.04 1.55 72.59 4.50 1.05 0.44 2.11 8.05 56.28 51.55 38.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.56 4.75 4.75 1.11 0.46 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.44 2.23<	32.52 \$1.55 34.07 2.11 2.11 0.49 0.20 1.94 8.05 65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 65.04 1.55 56.28 3.40 3.40 0.80 0.33 2.11 8.05 67.28 37.07 2.30 2.30 0.54 0.22 2.11 8.05 77.04 1.55 56.28 3.40 4.50 1.05 0.44 2.11 8.05 56.28 1.55 37.07 2.42 2.42 0.57 0.40 2.33 8.05 56.28 1.55 56.28 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 57.83 3.59 57.83 3.59 3.59 3.59 3.59 3.59 3.59 3.59 3.5	32.52 \$1.56 34.07 2.11 2.11 0.49 0.20 1.94 8.05 48.78 1.55 50.33 3.12 3.12 0.73 0.30 1.94 8.05 65.04 1.55 50.33 3.12 3.12 0.73 0.30 1.94 8.05 65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 36.52 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 53.28 1.56 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 56.28 1.56 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 56.28 1.56 57.83<	JOURNEYMAN													
48.78 1.55 50.33 3.12 3.12 0.73 0.73 0.90 1.94 8.05 65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.56 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.56 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 71.04 1.56 39.07 2.42 2.42 0.57 0.23 2.21 8.05 56.28 1.56 39.07 2.42 2.42 0.57 0.23 2.23 8.05 75.04 1.56 4.75 4.75 1.11 0.46 2.23 8.05	48.78 1.55 50.33 3.12 0.73 0.30 1.94 8.05 65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 34.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 71.04 1.55 38.07 2.42 2.42 0.57 0.23 2.11 8.05 56.28 1.55 38.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 38.07 2.42 2.42 0.54 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 75.04 1.55 4.75 4.75 1.11 <td>48.78 1.55 50.33 3.12 3.12 0.73 0.30 1.94 8.05 65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 54.83 3.40 4.50 1.05 0.44 2.11 8.05 37.52 \$1.55 39.07 2.42 0.57 0.23 2.21 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 4.75 4.75 1.11 0.46 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05</td> <td>A.</td> <td>32.52</td> <td>99</td> <td>34.07</td> <td>2.11</td> <td>2.11</td> <td>0.49</td> <td>0.20</td> <td>1.94</td> <td>8.05</td> <td>3.04</td> <td>1</td> <td>0.70</td> <td>0.70</td>	48.78 1.55 50.33 3.12 3.12 0.73 0.30 1.94 8.05 65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 54.83 3.40 4.50 1.05 0.44 2.11 8.05 37.52 \$1.55 39.07 2.42 0.57 0.23 2.21 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 56.28 1.55 4.75 4.75 1.11 0.46 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05	A.	32.52	99	34.07	2.11	2.11	0.49	0.20	1.94	8.05	3.04	1	0.70	0.70
65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 4.50 1.05 0.44 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 71.04 1.55 39.07 2.42 2.42 0.57 0.23 2.21 8.05 37.52 \$1.55 39.07 2.42 2.42 0.67 0.23 2.23 8.05 56.28 1.55 57.83 3.59 4.75 1.11 0.46 2.23 8.05 75.04 1.55 4.75 4.75 1.11 0.46 2.23 8.05	65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 56.28 1.55 39.07 2.42 2.42 0.57 0.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05	65.04 1.55 66.59 4.13 4.13 0.97 0.40 1.94 8.05 35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 37.52 \$1.55 39.07 2.42 2.42 0.57 0.23 8.05 56.28 1.56 \$57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 31STENCE: Up to \$70.00 / day	W E	48.78		50.33	3.12	3.12	0.73	0.30	1.94	8.05	3.04	1	0.70	
35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 37.52 \$1.55 39.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 1.11 0.46 2.23 8.05	35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 71.04 1.55 72.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 75.04 1.55 76.59 8.75 1.11 0.46 2.23 8.05	35.52 1.55 37.07 2.30 2.30 0.54 0.22 2.11 8.05 53.28 1.55 54.83 3.40 3.40 0.80 0.33 2.11 8.05 71.04 1.55 72.59 4.50 4.50 1.05 0.44 2.11 8.05 75.04 1.55 39.07 2.42 2.42 0.57 0.23 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 1.11 0.45 1		65.04		66.59	4.13	4.13	0.97	0.40	1.94	8.05	3.04		0.70	
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71.04 1.55 72.59 4.50 4.50 1.06 0.44 2.11 8.05 37.52 \$1.55 39.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.56 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 1.11 0.46 2.23 8.05	71.04 1.55 72.59 4.50 4.50 1.06 0.44 2.11 8.05 8.05 8.05 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 8.05 8.05 8.05 8.05 8.05 8.05 8.05	71.04 1.55 72.59 4.50 4.50 1.06 0.44 2.11 8.05 8.05 8.05 8.05 9.07 0.50 8.05 9.05 9.05 9.05 9.05 9.05 9.05 9.05 9	ME.	53.28		54.83	3.40	3.40	08'0	0.33	2.11	8.05	3.04		0.70	
37.52 \$1.55 39.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05	37.52 \$1.55 39.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 SISTENCE: Up to \$70.00 / day	37.52 \$1.55 39.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 8.05 8.05 8.05 8.05 8.05 8.05 8.05		71.04		72.59	4.50	4.50	1.05	0.44	2.11	8.05	3.04		0.70	
37.52 \$1.55 \$39.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 \$7.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05	39.07 2.42 2.42 0.57 0.23 2.23 8.05 67.83 3.59 3.59 0.84 0.35 2.23 8.05 76.59 4.75 4.75 1.11 0.46 2.23 8.05	37.52 \$1.55 39.07 2.42 2.42 0.57 0.23 2.23 8.05 56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 SUBSISTENCE: Up to \$70.00 / day	OREN	IAN												
56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05	56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 8.05 8.05 8.05 9.05 9.05 9.05 9.05 9.05 9.05 9.05 9	56.28 1.55 57.83 3.59 3.59 0.84 0.35 2.23 8.05 75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 8.05 8.05 8.05 8.05 8.05 8.05 8.05	A	37.52		39.07	2.42	2.42	0.57	0.23	2.23	8.05	3.04		0.70	0.70
75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05	75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 SUBSISTENCE: Up to \$70.00 / day	75.04 1.55 76.59 4.75 4.75 1.11 0.46 2.23 8.05 SUBSISTENCE: Up to \$70.00 / day	W E	56.28		57.83	3.59	3.59	0.84	0.35	2.23	8.05	3.04		0.70	
	SUBSISTENCE: Up to \$70.00 / day	SUBSISTENCE: Up to \$70.00 / day		75.04	1.55	76.59	4.75	4.75	1,11	0.46	2.23	8.05	3.04		0.70	

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH - RFI 398 - Feed Forward

Pumps Functionality

Type: **Contract:**

10943 - Hesperia

Contractor: **ISO Currency Code:**

Purchase Order:

RFC - Request for Change

W M Lyles Co

USD

Contract # 10943 - Hesperi Priority:

Submitted:

01/18/2017

Submitted To: EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -Andrew Gilmore, EADOC-VVWRA

-Sub-R - Grant Gourley

Status:

Pending Medium

Pending On User:

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Andrew Gilmore

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

01/18/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

272,505.12

Amount Added:

2,497,23

New Approved Amount: Current Contract Duration: 275,002.35 821

Days Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

Correspondence # 118

RFI 398 - Feed Forward Pumps

Closed

Functionality

RFI # 398

Feed Forward Pumps Functionality

Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	imated Cost Change	%	Ac	ljusted Cost Change
1	Labor	\$	-		\$	-
2	Materials	\$			\$	
3	Equipment	\$			\$	
					\$	•
	Total	\$			\$	
	Markup	\$	•	15%	\$	
	Subtotal	\$			\$	
Subs 4	Trimax	\$	2,150.00		\$	1,853.4
		\$	-		\$	•
		\$			\$	
		\$	-		\$	-
	Subcontract Subtotal	\$	2,150.00		\$	1,853.4
	Subontractro Bond & Ins	\$	21.50	1%		
	Subtotal	\$	2,171.50		\$	1,853.4
	GC-Subcontractor Markup	\$	108.58	5%	\$	92.6
	Total	ċ	2,280.08		\$	1,946.1
	Total	٧	2,280.08		Į.	1,940.1.
	Subcontractor OH&P			15%	\$	278.02
	Subcontractor Bond & Ins			1%	\$	18.53
	GC Bond & Ins	\$	22.80	1%	\$	19.46
	Total	\$	2,302.88	СОН	\$	2,262.14
				AV	\$	2,262.14



California Contractor's License No. 422390

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January 18, 2017

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: RFI 398 - Feed Forward Pump Logic Changes

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received RFI response 398 which require program changes to incorporate the feed forward routines. WML deems this change to be additional work and the cost associated with these changes will be \$2,497.23. The breakdown of this amount is attached for your review.

\$2,262.14

Please review the items above and respond as soon as possible. If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

1/18/2017

Grant Gourley Project Executive

Signed by: Grant Gourley



From: Marty McLaughlin

COR – Change Order Request

Trimax Systems COR No. 33

To:

Southern Contracting Company

559 N. Twin Oaks Valley Rd.

San Marcos, CA 92069

Attention: Steve Vickers

Date:

January 6, 2017

Job No.:

P-2192

Victor Valley Wastewater Reclamation District

Subregional Water Reclamation Plants

Date Required:

Project:

January 30, 2017

Supporting Docs: RFI 389

none

Drawing Ref.:

Spec Ref.:

none

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Fixed Price	\$4,300.00	NA	None

Subject:

Feed Forward Pump Logic Changes

Summary:

The following PLC panels require program changes to incorporate the feed forward routines: Each of the following panels require this modification:

- Apple Valley WRP Main
- Hesperia WRP Main

The following is required:

- PLC Program changes
- Local HMI changes
- SCADA program changes
- Start-up and witness testing
- Testing documentation changes for start-up.

Please issue a change order for \$4,300.00 for the above requested changes.

Trimax Systems, Inc. will proceed upon receipt of change order confirmation.

Trimax Systems, Inc. has excluded the following from this proposal:

Any other material or labor that is not explicitly mentioned above as being provided

 $$4,300 \times 15\% = $4,945 \times 1\% = $4,994.45 / 2 = $2,497.23$

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH - Incorporation of safety shower flow switch signal into **SCADA**

Type:

RFC - Request for Change

Contract:

10943 - Hesperia

Contractor: **ISO Currency Code:**

USD

Purchase Order:

W M Lyles Co

Status:

Priority:

Submitted:

Submitted To:

Contract # 10943 - Hesperia Pending On User:

High

EADOC-VVWRA-Sub-R - Grant

Pending

06/09/2017

Gourley, EADOC-VVWRA-Sub-R -Alton Anderson, EADOC-VVWRA

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Andrew Gilmore, EADOC-VVWRA

-Sub-R - Andrew Gilmore

-Sub-R - Grant Gourley

Pending On Org: W M Lyles Co, Victor Valley

Wastewater Reclamation Authority,

Carollo Engineers

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

06/09/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By:

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

708,198.21

Amount Added:

0.00

New Approved Amount:

708,198.21

Current Contract Duration:

821

Davs Added:

0 821

New Contract Duration:

Budget:

Funding:

Cost Item:

eadoc

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

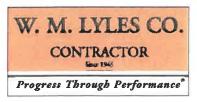
Element B1 - Hesperia WRP - Vol-05 - 05 - Operations Room

References

Correspondence # 129 RFI # 437 RFI 437 Response FSH 3710 Closed Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description		Estimated Cost		Adjusted Cost	
			Change	%		Change
2	Labor	\$			\$	-
3	Materials	\$	•		\$	-
3	Equipment	Ş			\$	-
	Total	\$	-		\$	-
	Markup	\$	-	15%	\$	
	Subtotal	\$	-		\$	-
Subs						
4	Trimax	\$	1,573.09		\$	1,356.:
		\$	-		\$	-
		\$	_		\$	-
		\$	-		\$	
		Ş			þ	
	Subcontract Subtotal	\$	1,573.09		\$	1,356.1
	Subontractro Bond & Ins	\$	15.73	1%		
	Subtotal	Ś	1,588.82		Ś	1,356.1
	GC-Subcontractor Markup	\$	79.44	5%	\$	67.8
	Total	Ś	1,668.26		'\$	1,423.9
			1,000.120			
	Subcontractor OH&P			15%	\$	203.4
	Subcontractor Bond & Ins			1%	\$	13.5
	GC Bond & Ins	\$	16.68	1%	\$	14.2
	Total		1,684.94	СОН	\$	



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June 14, 2017

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: RFI 437 – Add New IO for Emergency Eyewash

PCO: COH-80

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from RFI response 437 to add additional IO for the Emergency Eyewash Station. WML deems this change to be additional work and the cost associated with these changes will be \$1,655.13. The breakdown of this amount is attached for your review.

Please review the items above and respond as soon as possible. If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

Jant Jouley

Corporate Office: 1250 W. Olive, Fresno, CA 93728 Telephone: (559) 441-1900 • Fax (559) 487-7958

Trimax Systems, Inc. Change Order Request

Job Name		Customer P.O. Number
VVWR/	A Subregional Plants	T1139-50
То:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd.	Change Order Request: COR-39
Attn:	San Marcos, CA 92069 Steve Vickers	Date: 6/1/2017

Descripton:

Reference Trimax Systems' RFI-059, 5/31/2017

At Hesperia WRP: Add one (1) new discrete input to the Headworks PLC, for FSH-3710 located at the emergency eyewash/shower station. An existing spare discrete I/O point will be used. Provide programming, documentation, testing to integrate the new I/O. The flow switch is provided by others.

Material

Item	Description	Qty	Unit Price	Extended Price
1				\$0.00
2				\$0.00
		Subtotal:		\$0.00
		Markup:	15.00%	\$0.00

Markup: 15.00% \$0.00
Sales w/o Tax: \$0.00
Sales Tax: 8.75% \$0.00

Total Material Cost: \$0.00

Non-Taxable Labor

Item	Description	Resource	Hrs	Rate	Extended Price
1	Review and plan the changes described herein	Prog	1.00	160.00	\$160.00
2	Update PLC program to add new I/O	Prog	1.50	160.00	\$240.00
3	Add new point to local Operator Interface	Prog	1.00	160.00	\$160.00
4	Add new tag at SCADA, update displays	Prog	1.00	160.00	\$160.00
5	Update I/O wiring diagram	Des	1.00	110.00	\$110.00
6	Update Loop Diagrams	Des	1.50	110.00	\$165.00
7	Update test documents	Des	1.00	110.00	\$110.00
8	Loop testing	Eng	2.00	160.00	\$320.00
9			-		\$0.00

Total Non-Taxable Labor Cost:

10.00

\$1,425.00

Other Direct Costs

ltem	Description	RT Miles	Qty	Unit Price	Extended Price
1	Mileage		1	\$0.62	\$0.00
2	Freight		1	\$0.00	\$0.00
3	Delivery to job site		1		\$0.00
4	Lodging				\$0.00
5	Per Diem			\$75.00	\$0.00

Total Other Direct Costs:

\$0.00

Complete price for the scope of work described herein:

\$1,425.00

Markup 15% \$213.75 Bond 1% \$16.38 Total: \$1,655.13

Trimax Systems, Inc. Change Order Request

Job Name VVWRA Subregional Plants		Customer P.O. Number
		T1139-50
То:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-39 Date: 6/1/2017
Attn:	Steve Vickers	

Exclusions:

- 1. Flow Switch FSH-3710
- 2. Providing or installing any relay, accessory or panel modification(s) required to interface with the flow switch
- 3. Additional PLC I/O modules

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Scott Hoops

Project Manager Trimax Systems, Inc.

Cell Ph. - 714-599-1062 scotth@trimaxsystems.com



REQUEST FOR INFORMATION (RFI)

Owner:	Victor Valley Wastewater Reclamation Authority	Date:	6/1/17
Contractor:	M W Lyles Co.	Project No.:	8229A.20
Project Name:	Subregional WRPs	RFI No.:	437
RFI Title:	FSH 3710	Spec/Dwg. Reference:	17301
Authored By:	MWH Constructors – Ted Luiten		

Information and Reason Requested

Overview:

Referring to FSH-3710 (C3710) on drawing 03-E-07, we have verified that it is not indicated in the P&ID drawings; then Trimax is considering this instrument as new DI to the Headworks PLC.

Information Requested:

Please confirm if it is required to incorporate FSH-3710 in the Headworks PLC, HMI, & SCADA (which implies also the drawings and related documentation update).

Also, please confirm in Apple Valley and Hesperia WRP Headworks panel requires to incorporate this FSH-3710 as well. Trimax will verify the cost impact and will be included in the corresponding COR quotation.

Authored By: MWH Constructors – Ted Luiten Date Submitted: 6/1/17

Response to Request:

This is for the eyewash shower in the lab which the Operation room area has no P&ID sheet. It was added in Addendum No. 4 (Hesperia WRP) and Addendum No. 6 (Apple Valley WRP).

It is required to incorporate FSH-3710 in the Headworks (Primary) PLC, HMI, & SCADA for both Apple Valley and Hesperia WRPs per Addendum 4 and Addendum 6.

The programming for FSH-3710 in the Headworks PLC shall indicate use of eye wash and shower; and an ALARM shall be displayed on the local HMI and at SCADA. The programming shall replicate the same programming as was done for Loop 8102 (FSH-8102A or B for chemical area eyewash).

The PLC programming and HMI/SCADA configuration are minor and should require only minimal effort.

In the event, Contractor believes the RFI response does or will cause a change to the requirements of the Contract, Contractor shall immediately give written notice stating that Contractor considers the response to be a Change Order.

Firm:	Carollo Engineers Inc	Signature:	Adam Nichols, Raymond Genato	Date Returned:	06/05/2017
			0011010		

If any submittal, RFI, or other document is reviewed by the Third-Party inspector, Engineer shall not be liable and/or responsible for such review and/or the consequences of such review. Engineer shall not be liable for changes made by and/or coordination with any submittals, RFIs or other documents not reviewed by Engineer.

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH -	DC 121	4" Gae	Main	Addition
			14173111	

Type:

RFC - Request for Change Submitted To:

Contract:

10943 - Hesperia

Contractor:

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - Hesperia

08/23/2017 Submitted:

EADOC-VVWRA-Sub-R -

Alton Anderson, EADOC

-VVWRA-Sub-R - Grant

Gourley, EADOC-VVWRA-Sub

-R - Juan Castillo, EADOC -VVWRA-Sub-R - Lynene

Voelker

Revision Date:

Status:

Pending

Priority:

High

Pending On User:

EADOC-VVWRA-Sub-R -

Alton Anderson, EADOC -VVWRA-Sub-R - Lynene Voelker, EADOC-VVWRA-Sub

-R - Juan Castillo

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers, W M Lyles Co

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

08/14/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

48,493.00

Set:

Approved Thru Last:

708,198.21

Amount Added:

38,373.41

New Approved Amount:

746,571.62

Current Contract Duration: Davs Added:

New Contract Duration:

821

eadoc

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05 - 00 - Yard / Site Facilities

References

DCM # 121

DC 121 - Hesperia Natural Gas Line

Closed

Modifications

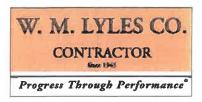
Correspondence # 135

DC 121 4" Gas Main

Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

14.0	D	Estimated Cost		0.0	Adjusted Cost	
Item	Description		Change	%		Change
1	Labor	\$	13,784.24		\$	13,784.2
2	Materials	\$	11,233.26		\$	11,233.2
3	Equipment	\$	6,595.96		\$	6,595.9
	CAT Material Credit				\$	
	Total	\$	31,613.46		\$	31,613.4
	Markup	\$	4,742.02	15%	\$	4,742.0
Subs	Subtotal	\$	36,355.48		\$	36,355.4
4	Dayton Welding	\$	1,560.00		\$	1,343.0
		\$	-		\$	-
	Subcontract Subtotal	\$	1,560.00		\$	1,343.0
	Subontractro Bond & Ins	\$	15.60	1%		
	Subtotal	ċ	1,575.60		ċ	1 242 0
	GC-Subcontractor Markup		78.78	5%	\$	1,343.0
	ЭС-Зирсопітастої магкир	Ş	76.76	376	Ş	67.1.
	Total	\$	38,009.86		\$	37,765.7
	Subcontractor OH&P			15%	\$	201.4
	Subcontractor Bond & Ins		T. A	1%	\$	13.43
	GC Bond & Ins	\$	380.10	1%	\$	377.60
	Total	\$	38,389.96		\$	38,358.2



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Temecula, CA 92590
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Fax (951) 698-3031

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January 30, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-83 DC 121 4" Gas Main

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC 121 to replace the existing gas main at the Hesperia WRP with a 4" gas main. WML deems this change to be additional work and the cost for this change is \$38,373.41. The breakdown of this amount is attached.

\$38,358,28

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

W. M. Lyles Co.

Labor

Date	CF	Clead	Carp.	CA	FF	Fin.	LF	Lab.	LATO	MWF	MW	OE
01/02/2018							8	8				8
01/03/2018		1	1				8	8				8
01/04/2018		T.					8	8				8
01/05/2018			1				9	9		4		9
01/08/2018						- 1	8	6				6
01/10/2018							6	6				7
01/11/2018							8	8				8
01/12/2018							6	5				5
Paint Pipe								16				
-	0	0	0	0	0	0	61	74	0	0	0	59

Craft	Hours	Rate	Extension
Carp. Foreman	0	\$73.36	\$0.00
Carp. Leadman	0	\$71.35	\$0.00
Carpenter	0	\$69.34	\$0.00
Carp. Apprent.	0	\$53.53	\$0.00
Finisher Fore.	0	\$72.01	\$0.00
Finisher	0	\$67.99	\$0.00
Laborer Fore.	61	\$67.55	\$4,120.55
Laborer	74	\$65.22	\$4,826.28
Lab. Apprent	0	\$56.86	\$0,00
Millwright Fore.	0		\$0.00
Millwright	0		\$0.00
Operating Eng.	59	\$81.99	\$4,837.41
	Total Labor =		\$13,784.24

<u>Material</u>	Quantity	Unit	Price	Extension
Steel Pipe	1	Lot	\$662,00	\$662.00
Asphalt	1	Lot	\$140.00	\$0.00
Home Depot	1	Lot	\$87.00	\$87,00
Concrete	1	Lot	\$880.00	\$880.00
Slurry	1	Lot	\$600.00	\$600.00
HDPE Pipe	1	Lot	\$4,504.26	\$4,504.26
Johnson Cat	1	Lot		\$4,500.00
	Total Mater	rial =		\$11,233.26

Equipment

Date	Trk	23T	BH	DT	EX	WTR TRK	Skip	FORK	950F	CHIP	GEN	COMPAC
01/02/2018	10				8							
01/03/2018	10				8	1 1 1						
01/04/2018	10				8	1	8					
01/05/2018	10				8		8					
01/08/2018	9				8		8					
01/10/2018	7				8		8			1		
01/11/2018	10				8		8					
01/12/2018	8						8					
	74	0	0	0	56	0	48	0	0	0	- (0

Equipment	<u>Hours</u>	<u>Rate</u>	Extension
Truck	74	\$21.50	\$1,591.00
23 Ton Crane	0		\$0.00
Backhoe	0	\$53.91	\$0.00
Dump Truck	0	\$21.00	\$0.00

Excavator	56	\$53.16	\$2,976.96
Water Truck	0	\$71.65	\$0.00
Skip Load	48	\$42.25	\$2,028.00
Fork Lift	0	\$64.11	\$0.00
950F Loader	0	\$70,52	\$0.00
Chipping Gun	0		\$0.00
Generator	0		\$0,00
Compactor	. 0		\$0.00
	Total Equipment =		\$6,595.96

RECAPITULATION

Subcontractors: Dayton Welding	\$1,560.00
WML Markup 5%	\$78.00
W.M. Lyles Co.	
- Labor	\$13,784.24
- Material	\$11,233.26
- Equipment	\$6,595.96
Markup @ 15%	\$4,742.02
Bond @ 1%	\$379.93
-	
TOTAL CHANGE ORDER REQUEST	\$38,373.41



Bill To

W. M. Lyles Co. P.O. Box 4377 Fresno, CA 93744 Invoice:

25214

Date:

1/3/2018

Ship To

W. M. Lyles Co. PO: 55-1139-92 Attn: Juan Castillo 14269 Mojave Street Hesperia, CA 92345

Terms	Due Date	Your P.O. No.
Net 30	2/2/2018	55-1139-92
Via		F.O.B.

UPS - Ground

Factory

Qty	Item Code	Description	Price Each	Ordered	Prev. Inv.	Backorder	Amount
480 4	MDPE GAS PIPE MDPE GAS BF	4" DR 11.5 MDPE GAS PIPE X 40' 4" DR 11/11.5 MDPE GAS BF 90 ELBOW	6.25 45.00	480 4	0 0	0 0	3,000.00T 180.00T
2	MDPE GAS FLANGE	4" DR 11.5 MDPE GAS FLANGE TRANSITION	267.00	2	0	0	534.00T
1	Freight	Freight Charges	502.42				502.42

Please send payment to

JPR Systems, Inc. 305 No. Berry Street Brea, CA 92821 T. 714.674.9520 Email. accounting@jprsystems.com

 Subtotal
 \$4,216.42

 Sales Tax (7.75%)
 \$287.84

 Total
 \$4,504.26

 Balance Due
 \$4,504.26



2/2/w

invoice:

Date:

25235

1/5/2018

and all alies

Billio The Society of the Society

W. M. Lyles Co. P.O. Box 4377 Fresho, CA 93744 W. M. Lylet Co. PO: 55-1139-55 14269 Mojave Street Hesperia, CA 92345

RECEIVED

JAN 05 203

Net 30 2/4/2016 55-1139-55
Vig F.O.8.

Best Way

Factory

Ty .	in a constant in the constant	Posecialit on	්ෂාප්ජෝ (and and	Realiza	Dereica	(प्राच्या)
1	2" 150# Hange	2" 150# Raised Face Slip-On flange (A105)	28.64	1	0	0	28.64T
ţ.	4" x 2" Reducer		22.60	1	0	Ď	22.60T
1	2" Thread-o-let		22.00	1	0	0	22.00T
1	4"x3" Concentric Reducer	(ASTM - A234)	15. 5 0	1	0	0	15.501
1	3" 90 eibow	(ASTM A234)	20.78	1	0	0	20.78T
4	4" 90 Elbow	Short Radius (ASTM - A234)	26.80	4	0	0	107.20T
2	4" 150# Flange	4" 150# Raised Face Slip-On Flange	41.00	2	0	0	82.007
3	3" 1 <i>50#</i> Flange	3" 150# Raised Face Slip-On Flange	36.00	3	0	0	100.00T
2	4" bolt sets	Vandor #	25.00	2	0	٥	50.00T
2	4" gaskets	CONTRACTOR OF THE STREET	15.00	2	0	Ò	30,000
4	3" bolt sets	$Ed_{\mathcal{D}} \otimes \mathcal{P}_{G} M$	18.00	4	0	0	72.00T
4	3" gaskets		14,00	4	0	0	56.00T

TBC

Job#/Eq# \$5.1139 Amt 662.36

Con Cone

Approved by

Jate

Please Send payment to

JPR Systems, Inc. 305 No. Berry Street Brea, CA 92821 T. 714.674.9520 Email. accounting@j

Email. accounting@jprsystems.com

1/4

 Subtofal
 \$614.72

 Sales Tax (7.75%)
 \$47.64

 Total
 \$662.36

 Balance Due
 \$662.36

Thank you for your business.



NO. 170824

3500 Shepherd Street, City of Industry, California 90601 Box 227044, Los Angeles, California 90022-0744 (562) 463-6000 Fax: (562) 463-7156

(562) 4	63-6000 Fax:	(562) 463-7156	Date: Januar	y 30, 2018 Pag	ge: <u>1 of 4</u>	
To:	Contact:	Grant Gourley	Terms:	Net Cash, see T&C's		
	Company:	W. M Lyles Co.	F.O.B.	Jobsite, unloading by	others	
	Address:	42142 Roick Drive	Sales Rep.:	Rogelio V. Deguzman		
	City, Zip:	Temecula, CA 92590	Contact #:	Office: 951-683-5960 C	ell:714-863-4295	
	Phone:	Email: ggourley@wmlylesco.com	Email:	Rogelio.deguzman@qu	innpower.com	
Pro	oject Name:	Victor Valley Water Reclamation Plant, Hesperia and Apple	Valley			
Qty:		Description		Unit Price	Extension	
1	Cancelle N6R0015	d test at Hesperia site for N6R00151 on 1/4/17 and A 2 on 9/5/17, travel time, mileage, labor, and load bank.	ople Valley site	for	\$4,500.00	
		PRICE IS FOR EQUIPMENT DELIVERY IN 2015.				

SALES TAX IS NOT INCLUDED. Buyer responsible for all taxes. Any offer to sell or any offer accepted shall be subject to the Terms and Conditions page. Unless expressly stated on the face of this quotation, all prices, delivery schedules and product specifications are subject to change without notice. **Quotation is good for** 30 days from quote date above, expires after that duration.



NO. 170824

3500 Shepherd Street, City of Industry, California 90601 Box 227044, Los Angeles, California 90022-0744 (562) 463-6000 Fax: (562) 463-7156

Date: January 30, 2018

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NOTES, EXCEPTIONS, CLARIFICATION

- > The equipment offered in this proposal is CAT standard product as listed above. No other written details, plans, specification sections, contract documents, general or supplementary conditions apply to this quotation. Equipment is as stated above, call for any revisions to equipment quoted. Exception taken to anything not included in this proposal and as listed below.
- > Quotation does not include Sales Tax, any Air District or Building Permits, Off-loading or Crane Services, Installation or Anchoring, Initial Fuel fill or Test fuel, Major Testing unless otherwise specified in the Bill of Materials.
- > Depending on final height of installed generator set, a personal platform may be required to access the control panel and maintenance doors. Platform not included in this proposal, if required please call for quotation.
- > Start Up and Commissioning Services are provided for CAT factory/QPS supplied equipment only. Scope of work for Start Up Services available upon request. Out of Scope services to be billed on Time & Material basis in the field at purchaser's expense. QPS standard labor rates apply. Technician services are provided during normal business hours Monday through Friday.
- > Exception taken to NETA 3rd party or independent testing requirements. Any and all testing as listed above to be provided by QPS technicians.

EMISSIONS NOTE

- > "California Air Resources Board (CARB) has approved alignment with the federal New Source Performance Standards (NSPS). Such alignment allows for emergency standby engines to be exempt from Tier 4 emissions standards; however, local air districts can require more stringent emissions control. The prospective buyer of the equipment quoted above is hereby notified the NSPS exemption does not apply to non-emergency standby engines (e.g. prime power applications such as peak shaving, parallel operation with the grid, or storm avoidance), or portable engines, even if used for emergency standby. Consult the local air district for permitting requirements and required emissions controls. Presently, South Coast Air Quality Management District (SCAQMD) Rule 1470 requires the use of a particulate filter if an engine is located within 100 meters of a school, and may require either a diesel particulate filter or an oxidation catalyst, depending upon engine size, if the installation is within 50 meters of a sensitive receptor. Particulate filters may also be required for Title V and major polluting facilities. For emissions requirements specific to the project for which this engine is being quoted, please contact SCAQMD at 909-396-2000. Unless otherwise listed above a DPF is not included in this proposal, please call for quotation if a DPF is required for this project."
- > Caterpillar engines require a minimum of 30% load to prevent engine damage due to wet-stacking. Depending upon the permit and site specific conditions, SCAQMD emergency engine permits will only allow between 20 and 50 hours of runtime per year for non-emergency applications such as testing and exercising. Passive Diesel Particulate Filter systems depend on generator loading of a minimum of 50-60% to achieve minimum exhaust temperature threshold to keep soot regeneration and the filter backpressure within acceptable levels. If the engine will be operated consistently at low loads/low exhaust temperatures, the customer should make provisions to add load via facility operations or a load bank. Active Diesel Particulate Filter systems require no external load in order to regenerate. If listed above, Passive DPF option pricing, does not include a load bank or a load bank circuit breaker. If a load bank is needed for this project, please call for quotation.



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3500 Shepherd Street, City of Industry, California 90601 Box 227044, Los Angeles, California 90022-0744 (562) 463-6000 Fax: (562) 463-7156

Date: January 30, 2018

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TERMS AND CONDITIONS

1. Acceptance of Order.

This Quotation is for Buyer's information only and is not a valid offer to sell unless signed by an authorized representative of Seller in the place provided on the face of this Quotation. Prices, terms and conditions in an order from Buyer, which are inconsistent with the prices, terms and conditions of this Quotation, will be rejected by Seller, and are of no force and effect unless accepted in writing by Seller. Prices, delivery schedules and the scope of work on this Quotation are subject to change at Seller's discretion.

2. Liability.

Seller's liability on any claim of any kind, including claims for negligence, or for any loss or damage arising out of or connected with the manufacture, sale, delivery, installation, resale or use of any products covered by or furnished under any order connected with this Quotation shall be limited to those claims arising solely from the acts of Seller and Seller shall in no way be liable for any special, indirect, incidental or consequential damages. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to property or equipment. Buyer expressly acknowledges and agrees that Seller has set its prices in reliance upon the imitations of liability and other terms and conditions specified herein, which allocate the risk between Seller and Buyer and form a basis of this bargain between the parties. Any claims against Seller for shortages in shipments shall be made in writing to Seller within fifteen (15) days of receipt of shipment by Buyer. Unless otherwise provided for in writing, Seller's responsibility for shipment ceases upon delivery to carrier, and any claims for shortage, delays in delivery attributable to strikes, labor disputes, lockouts, accidents, fires, delays in manufacture or in transportation, delays in delivery of component materials, floods, severe weather, or Acts of God, embargoes, governmental actions, or any other cause beyond the resonable control of Seller. Seller shall not indemnify nor be liable to Buyer, Buyer's assigns, successors, purchasers, lessees or licensees, or to any person or entity for any claims, losses, expenses or judgments arising out of or resulting in any way from the product or integration of compatibility of the product with any other components, processes, facilities or equipment that does not comply with the equipment manufacturer(s)'s recommendations.

3. Shipments.

3. Snipments.

Unless otherwise specified, all risk of loss from the goods shall shift to Buyer at such time as the goods are delivered to a carrier for shipment to Buyer. Unless otherwise specified, shipment dates are approximate and all quoted prices exclude shipping costs. Shipment of goods under any order accepted by Seller shall be subject to the approval by Seller of Buyer's financial condition at the time of shipment. Whether or not terms of payment are specified elsewhere, Seller may, at its option, condition shipments under any order accepted by Seller upon receipt of satisfactory security or of cash prior to shipment. If, at Buyer's request, shipment of goods under any order accepted by Seller is delayed more than thirty (30) days after the shipment date specified in the order, or the date the goods are ready for shipment, whichever is later, Seller will require immediate payment in full and/or assess additional charges for the expenses incident to such delay.

4. Termination.

In the absence of a written agreement between Buyer and Seller expressing different terms and conditions as to termination, any order accepted by Seller may be terminated prior to completion by Buyer only upon written notice to Seller and payment of Seller's termination charges. If notice of termination is received by Seller after Seller has committed to buy the principal components for any order, termination charges shall include all direct and indirect costs incurred by Seller and the total profit anticipated by Seller. Additionally, Buyer's instruction to Seller to stop work for thirty (30) days during the time specified for performance in any order may be construed by Seller as the equivalent of written notice of termination from Buyer and previous stipulations will be in effect.

Unless expressly stated, Seller's prices do not include sales, use, excise or similar taxes, which Seller may be required to pay in filling Buyer's order. The amount of any applicable tax shall be paid by Buyer as an additional charge unless specifically included in any order accepted by Seller, or in lieu thereof, Buyer shall provide Seller with a tax exemption certificate acceptable to the taxing authorities.

Seller shall, at its own expense, defend and save Buyer harmless from the expenses and consequences of any suit or procedure brought against Buyer, based on a claim that the use or sale of goods specified in any order accepted by Seller constitutes an infringement of any United States letters of patent in existence on the date of any such order; provided Buyer promptly notifies Seller in writing of such claim and gives the necessary authorization, information and assistance for the defense of such a claim.

7. Changes.

Seller, and Seller's suppliers, may, at any time, without notice to Buyer, make changes (whether in design, materials, the addition of improvements, or otherwise) in any goods specified in any order accepted by Seller without incurring any obligation of any kind as a result thereof, but only to the extent that such change does not cause the goods specified to fail to meet Buyer's requirements. Buyer may, in its order, provide for changes in its requirements with provision for a corresponding equitable change in the price, if any; but in no instance shall Buyer make changes, which are substantially different from the scope of the original order accepted by Seller.

8. Export Sales.

8. Export Sales.

In the event the goods and services specified in any order accepted by Seller are for export, the Buyer shall be responsible for securing export, import and other licenses or authorizations as may be required. The conditions specified in this Section apply to all export transactions. This transaction is only for the sale of the equipment requested and detailed in this Quotation. Not included is any startup assistance, field-testing, training or any other services that might be required on site. Also not included is any installation, installation audits, sea trials (if applicable), or installation materials. To ensure proper application, installation, and warranty integrity, Buyer is encouraged to contact the applicable Caterpillar Dealer for these services. The costs of these services are not included in the sale price nor will Seller be responsible for

9. Permits for Equipment Design, Installation and Operation.

9. Permits for Equipment Design, Installation and Operation.
As a supplier of equipment, disclaims responsibility for any and all permits or licenses necessary to design, install and operate the equipment due to zoning, air quality, environmental, safety, building or construction codes or use permits pertaining to Buyer's particular application of such equipment or any similar type of permit. Special attention should be given to the requirements of local air district rules and California Air Resources Board (CARB) regulations pertaining to permit requirements. Seller is quoting on equipment based on the specifications set forth in this Quotation. If additional equipment or engine modifications are required beyond the specifications, such as additional equipment required for compliance by a local air district or CARB, those items are not included and are the responsibility of Buyer. For example, South Coast AQMD (SCAQMD) Rule 1470 may require controls and limits on particulate matter, especially when the engine installation is within 100-meters from a school, or within 50 meters of a sensitive receptor (defined in Rule 1470). Ultra low sulfur fuel is required for particulate filters. CARB Diesel Fuel, or other CARB-approved alternative fuel, is also required for compression ignition (CI) engines operated in California. When indicated in the bill of materials, the proposed equipment may be SCAQMD pre-approved as Certified Equipment. This certification does not eliminate the permit process or responsibility of others to obtain a permit. Procurement of certified equipment assures permitability, reduces the permit processing fees and reduces the time necessary to obtain the permit through SCAQMD.

10. Start-up, Commissioning and Operating Requirements.

10. Start-up, Commissioning and Operating Requirements.

Equipment provided in this Quotation may require start-up and commissioning, including inspection(s), to ensure the equipment is installed in accordance with manufacturer(s)'s recommendations and specifications. If Seller has commissioned the equipment, Buyer agrees not to modify the design or components of the installation such that the modifications would violate any legal requirements of the installation, or would cause the installation to deviate from manufacturer(s)'s recommendations and specifications. Buyer acknowledges and agrees that, with respect to products sold to Buyer in connection with this Quotation, Buyer shall have the sole responsibility to ensure the products are properly installed, operated and maintained in accordance with the manufacturer(s)'s recommendations and specifications, and to determine and Buyer shall have the sole responsionly to ensure the products are properly installed, operated and maintain a coordance with all applicable Federal, state, local and regulated use restrictions and requirements, including, without limitation, the continuing responsibility to ensure that the use of product is in full compliance with all applicable environmental laws and regulations. Failure to install, operate and maintain the products in accordance with the manufacturer(s)'s recommendations and specifications will invalidate any applicable manufacturer's warranty.

11. Additional material.

Only those items listed in this Quotation are included with any order. For example, unless specifically identified in this Quotation, the following items are not included with any purchased equipment: any exhaust or fuel piping, main fuel tank, fuel, duct work, special tools, insulation, wiring, cable, bus duct, concrete, anchor bolts, rigging or any material or labor incidental to the installation itself. Buyer specifically assumes responsibility for the provision of any such items if not specifically identified in the Quotation.

When included, delivery, startup assistance, field testing, training or any other services required on site will be provided during the normal weekday working hours of 7:00 am to 4:30 pm. Delivery or services occurring at any other time, weekends or holidays is subject to premium charges.

The equipment manufacturer's warranty is the only warranty provided in connection with the equipment described in this Quolation. Buyer is responsible for operating and maintaining the equipment as specified by the manufacturer. The manufacturer's warranties are exclusive and in lieu of all other warranties either oral or written, express or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose. Selier is not a manufacturer and makes no warranty and shall not, under any circumstances, be liable for any indirect or special, incidental or consequential damages including but not limited to loss of production, loss of profit, loss of use or business interruption, or any other economic loss, whether arising from contract, tort, strict liability or any other theory of law. Buyer, Buyer's assigns, successors, purchasers or any other person designated to operate the equipment as the end user, is responsible for operating the equipment in accordance with manufacturer(s)'s recommendations and specifications. Failure to perform all scheduled maintenance may result in damage to the equipment, and may be grounds to deny warranty coverage.

Terms of payment are due upon receipt of invoice with no deductions of any kind for retentions, setoffs, discounts or other similar items. A finance charge of 1.5% per month (not to exceed the maximum allowed by law) will be charged on all past due invoices. When necessary Seller will file a California "Preliminary 20-day notice" pursuant to Section 3097 of the California Civil Code.



NO. 170824

3500 Shepherd Street, City of Industry, California 90601 Box 227044, Los Angeles, California 90022-0744 (562) 463-6000 Fax: (562) 463-7156

Date: January 30, 2018

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15. Cost additives.

A: Unit Cost.

Quotation prices are valid for 30 days only and are based on current market prices as of date of quotation. The Seller reserves the right to adjust the final invoice with a price escalation up to 6% due to 1) purchase orders being received after expiration of quotation, 2) fluctuations in raw materials market prices at time of order, 3) labor rate increases at time of scheduled field services, 4) delays in submittal approvals and/or release of equipment or 5) additional items or services provided that were not included as part of the original quotation. Since final invoicing can and may take place up to a year or more from original quotation date. B: Delays.

If delivery is delayed by customer Buyer beyond original shipment date, purchase price is due 30 days after original shipment date and a storage and handling charge will be applied and is due each month until delivery. Finance charge of 1.5% per month (not to exceed the maximum allowed by law) is applicable on any amounts arising hereunder or in connection herewith that are not paid when due. C: Start up.

If construction of the facility or other delays are experienced or expected, which prohibit the initial startup of the equipment beyond one year from delivery additional costs may be imposed including, but not be limited to, long term storage preparation, inspection charges, parts, service, etc.

16. Lead Times

Lead times are based on manufactures estimated timetables. Project completion time may vary due to delays in receipt of purchase orders, submittal approval, release of equipment, manufactures unforeseen delays in production or holiday schedules. Project completion time frame cannot be guaranteed. Back orders will be processed as soon as available. Part number changes may be made to provide latest improved interchangeable items of equipment.

The rights and obligations of the parties with respect to the transactions contemplated by this Quotation shall be governed in all respects by the laws of the State of California. The parties hereto irrevocably agree that the exclusive venue for any litigation arising in connection with the transactions specified in this Quotation shall be in the courts located in the County of Los Angeles, California.

18. Attorneys' Fees and Costs

In the event of any legal action, controversy, claim, or dispute between the parties involving the transactions contemplated by this Quotation, the prevailing party shall be entitled to recover from the other party reasonable expenses, attorneys' fees, and costs

19. Additional Conditions

19. Additional Conditions.

Buyer shall furnish to Seller, at no cost, suitable working space, storage space, adequate heat, telephone, light, ventilation, regulated electric power and outlets for testing purposes (if applicable). The facilities shall be within a reasonable distance from where any applicable services are to be provided. Seller and its representatives shall have full and free access to the equipment in order to provide any applicable services. Buyer shall provide the means to shut-off and secure electric power to the equipment and provide safe working conditions. Buyer shall not require Seller or its employees, as a condition to site access or otherwise, to further agree or enter into any agreement, which waives, releases, indemises or expands any rights or obligation whatsoever. Any such agreements shall be null and vold. Seller is under no obligation to remove or dispose of parts or equipment unless specifically agreed upon in Seller's scope of work. Seller-removed parts become the property of Seller. Seller must not perform any electrical power switching unless specifically requested by Buyer, under the supervision of Buyer, and subject to procedures jointly agreed to in advance. Notwithstanding Buyer's request, Seller may refuse to perform power switching, if in the opinion of Seller, such action would be unsafe. IN THE EVENT THAT SELLER PERFORMS POWER SWITCHING, TO THE FULLEST EXTENT PERMITTED BY LAW, BUYER SHALL INDEMNIFY, DEFEND, AND HOLD SELLER HARMLESS FROM ANY AND ALL LIABILITY, ACTIONS, SUITS, CLAIMS, DEMANDS, DAMAGES, COSTS, AND EXPENSES ("LOSSES") ARISING OUT OF OR IN INDEMNIFY, DEFEND, AND HOLD SELLER HARMLESS FROM ANY AND ALL LIABILITY, ACTIONS, SUITS, CLAIMS, DEMANDS, DAMAGES, COSTS, AND EXPENSES ("LOSSES") ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR RESULTING FROM SELLER'S PERFORMANCE OF POWER SWITCHING, REGARDLESS OF WHETHER THE LOSSES RESULT FROM SELLER'S NEGLIGENCE (WHETHER ACTION OR PASSIVE, AND WHETHER SOLE, JOINT, OR CONCURRENT), AND EVEN THOUGH CAUSED IN WHOLE OR IN PART BY A PRE-EXISTING DEFECT, STRICT LIABILITY, OR OTHER LEGAL FAULT OF SELLER. THIS INDEMNITY SHALL APPLY TO ANY ACTS OR OMISSIONS OR NEGLIGENT CONDUCT, WHETHER ACTIVE OR PASSIVE, ON THE PART OF EITHER SELLER OR BUYER. If OSHA or any other federal, state or local government, trade association, or contractual regulations or standards require a "safety person" to be on site during the performance of services, or in the event of a trade union jurisdictional dispute where trade union represented personnel are required to assist or stand by during the performance of services by Seller, Buyer shall be responsible for providing for and paying for any charge or wages for such person(s), as applicable. Buyer shall immediately inform Seller, in writing, at the time of order placement and thereafter, of any unsafe or hazardous substance or condition at the site, including, but not limited to, the presence of asbestos or asbestos-containing materials, and shall provide Seller with any applicable Material Data Safety Sheets regarding the same. Any losses, costs, damages, claims and expenses incurred by Seller as a result of Buyer's failure to advise Seller shall be borne by Buyer. Seller, in its sole discretion and without cost or penalty, reserves the right to cancel its carnages, caams and expenses incurred by Selier as a result or buyers sature to advise Selier shall be borne by Buyer. Selier, in its sole discretion and without cost or penalty, reserves the right to cancel its performance under this Agreement or any order immediately upon written notice to Buyer following Seller's discovery of unsafe or hazardous site substance or condition or any other circumstance altering Seller performance of Services. Buyer shall appoint a representative familiar with the site and the nature of the Services to be performed by Seller to be accessible at all times that Seller personnel are at the site. Seller shall not be liable for any expenses incurred by Buyer in removing, replacing or refurbishing any Buyer equipment or any part of Buyer's building structure that restricts Seller's access. Buyer's personnel shall cooperate with and provide all necessary assistance to Seller. Seller shall not be liable or responsible for any work performed by Buyer.

ACCEPTED BY:	
Ву:	
Company:	
Date:	
P.O. #:	

PCO#84

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH - RFI 356 Added Ethernet Switch for Cameras

Type:

RFC - Request for Change

Contract: Contractor:

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

10943 - Hesperia

Contract # 10943 - Hesperia Priority:

Submitted: 08/18/2017

Submitted To: EADOC-VVWRA-Sub-R - Alton

> Anderson, EADOC-VVWRA-Sub-R -Grant Gourley, EADOC-VVWRA-Sub

-R - Lynene Voelker

Status:

Pending Low

Pending On User: EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Lynene Voelker

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

08/18/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By:

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

708,198.21 1,194.65

Amount Added: New Approved Amount:

709,392.86

Current Contract Duration:

821

Davs Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

Correspondence # 136

RFI 356 Added Ethernet Switch for

Closed

Cameras

RFI # 356

Camera 1, 2, & 3 Reroute

Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	Estimated Cost		Ac	ijusted Cost
1		_	Change	-		Change
1	Labor	\$	•		\$	
3	Materials	\$			\$	-
3	Equipment	\$	•		\$	
					\$	-
	Total	\$	-		\$	-
	Markup	\$		15%	\$	-
	Subtotal	\$	-		\$	_
ubs						
4	Trimax	\$	1,135.43		\$	978.8
		\$	- 1		\$	-
		\$			\$	
		\$	_		\$	-
	Subcontract Subtotal	\$	1,135.43		\$	978.8
	Subontractro Bond & Ins	\$	11.35	1%		
	Subtotal	\$	1,146.79		\$	978.8
	GC-Subcontractor Markup	\$	57.34	5%	\$	48.9
	Total	\$	1,204.12		\$	1,027.7
	Subcontractor OH&P			15%	\$	146.8
	Subcontractor Bond & Ins			1%	\$	9.7
	GC Bond & Ins	\$	12.04	1%	\$	10.2
	Total	\$	1,216.17	СОН	\$	1,194.6
				AV	\$	1,194.6



Trimax Systems, Inc. Change Order Request

Job Nar	ne	Customer P.O. Number
VVWRA	Subregional Plants	T1139-50
То:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd.	Change Order Request: COR-45
Attn:	San Marcos, CA 92069 Steve Vickers	Date: 8/15/2017
		Reference RFI-356

Descripton:

Provide for each Hesperia and Apple valley:

- (1) 1000-POE4+ Injector
- (1) Ethernet 1FT patch cable
- Install above and wire the power into the Networks panel

item	Description		Qty	Unit Price	Extended Price
1	1000-POE4+ Injector	RED LION	2	\$699.00	\$1,398.00
2 1	Ethernet 1 FT Industrial Patch Cable		2	\$10.00	\$20.00
	l.		Subtotal:		\$1,418.00
			Markup:	15.00%	\$212.70
			Sales w/o Tax:		\$1,630.70
			Sales Tax:	7.75%	\$126.38
			Tota	Material Cost:	\$1,757.08

Non-Taxable Labor

					Extended
ltem	Description	Resource	Hrs	Rate	Price
1	Review, plan and coordinate changes - Both Sites	Prog		160.00	\$0.00
2	Update panel I/O drawings - Both Sites	Des Eng	0.50	160.00	\$80.00
3	O&M Manual Modifications HWRP	Des Eng		160.00	\$0.00
3	O&M Manual Modifications AVWRP	Des Eng		160.00	\$0.00
4	Update loop drawings HWRP (1 dwg)	Des Eng		160.00	\$0.00
5	Update loop drawings AVWRP (1 dwg)	Des Eng		160.00	\$0.00
6	Add PLC program for HWRP	Prog		160.00	\$0.00
7	Add PLC program for AVWRP	Prog		160.00	\$0.00
8	Add HMI program for HWRP	Prog		160.00	\$0.00
9	Add HMI program for AVWRP	Prog		160.00	\$0.00
10	Add SCADA app for HWRP	Prog		160.00	\$0.00
11	Add SCADA app for AVWRP	Prog		160.00	\$0.00
12	Loop testing - Both Sites	Field Tech		110.00	\$0.00
13	Operational testing - Both Sites	Prog		160.00	\$0.00
14	Field Installation - Mounting and Wiring - Both Sites	Field Tech	2.00	110.00	\$220.00
			-		

Total Non-Taxable Labor Cost:

2.50

\$300.00

Other Direct Costs

					Extended
item	Description	RT Miles	Qty	Unit Price	Price
1	Mileage			\$0.62	\$0.00
2	Freight			\$0.00	\$0.00
3	Delivery to job site				\$0.00
4	Lodging				\$0.00
5	Per Diem			\$75.00	\$0.00
			Total O	ther Direct Costs:	\$0.00

200

Complete price for the scope of work described herein:

\$2,057.08

WML Markup 15% = \$308.56 Bond 1% = \$23.65 Total = \$2,389.29

COH = \$1,194.65 TOAV = \$1,194.64



Trimax Systems, Inc. Change Order Request

Job Na	me	Customer P.O. Number
VVWR/	A Subregional Plants	T1139-50
То:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd.	Change Order Request: COR-45
Attn:	San Marcos, CA 92069 Steve Vickers	Date: 8/15/2017
		Reference RFI-356

Exclusions:

- 1. Mounting stanchion, mounting plate.
- 2. Materials for installation.
- 3. Additional PLC I/O modules to accommodate new I/O.
- 4. Installation of furnished equipment.

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Marty McLaughlin Project Manager Trimax Systems, Inc.

Cell Ph. - 714-595-1269 brianbertrimaxsystems.com

Sub-Regional WRP Projects Sub Regional WRP Projects

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COH - DC 122 VFD Wiring

Modifications

Type:

RFC - Request for Change 10943 - Hesperia

Contract: Contractor:

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - HesperiaStatus:

Priority:

Submitted:

Submitted To:

High **Internal Priority:** High

Pending On User:

EADOC-VVWRA-Sub-R - Alton

Pending

09/27/2017

Anderson, EADOC-VVWRA-Sub-R -

EADOC-VVWRA-Sub-R - Alton

-Sub-R - Grant Gourley, EADOC

-VVWRA-Sub-R - Lynene Voelker

Anderson, EADOC-VVWRA-Sub-R -

Charles Reynolds, EADOC-VVWRA

Lynene Voelker

Pending On Org: Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

09/27/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 708,198.21 Amount Added: 13.550.54 **New Approved Amount:** 721,748.75 **Current Contract Duration:** 821 0

Days Added:

New Contract Duration: 821

Budget:

Funding:

Cost Item:

16-44

eadoc

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

DCM # 122 Correspondence # 138 DC 122 - VFD wiring modifications DC 122 VFD Wiring Modifications Closed Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Item	Description			Estimated Cost		%	Α	djusted Cost
			Change	70		Change		
1	Labor	\$	-		\$			
2	Materials	\$	•		\$	-		
3	Equipment	\$			\$			
					\$			
	Total	\$	-		\$	_		
	Markup	\$	-	15%	\$	-		
Subs	Subtotal	\$	-		\$	-		
4	Southern Electrical	\$	12,777.08		\$	11,000.5		
		\$	-		\$	-		
	Subcontract Subtotal	\$	12,777.08		\$	11,000.		
	Subontractro Bond & Ins	\$	127.77	1%				
	Subtotal	\$	12,904.85		\$	11,000.5		
	GC-Subcontractor Markup	\$	645.24	5%	\$	550.0		
	Total	\$	13,550.09		\$	11,550.5		
	Subcontractor OH&P			15%	\$	1,650.0		
	Subcontractor Bond & Ins			1%	\$	110.0		
	GC Bond & Ins	\$	135.50	1%	\$	115.5		
	Total	\$	13,685.60	сон	\$	13,426.1		
				TOAV	\$	13,426.1		

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00136

TITLE:

DC 122 VFD Mods

DATE: 12/14/2017

PROJECT:

Victor Valley Subregional WRPq

JOB: 100531

TO:

Attn: Grant Gourley

CONTRACT NO:

1

W.M. Lyles

42142 Roick Drive Temecula, CA 92590

Phone: 951-973-7393

Fax: 951-698-3031

RE:

To:

From:

Number:

DESCRIPTION OF PROPOSAL

Provide modifications to VFDs as directed in DC 122

Item Description Stock # Quantity Units **Unit Price** Tax Rate **Tax Amount Net Amount** 0.00% \$25,555.00 00001 Provide VFD 1.000 \$25,555.00 \$0.00

Modifications as directed in DC 122

Unit Cost:

\$25,555.00

Unit Tax:

\$0.00

Total:

\$25,555.00

WML Markup: \$1,277.75 WML Bond: \$268.33 WML total: \$27,101.08

\$13,426.11 COH = \$13,550.54 \$13,426.11 TOAV = \$13,550.54

APPRO	VAL:				
By:			By:		
	Grant Gourley		_	Brendan Bradford	
Date:			Date:		
rimavera ®		16-47		Pag	99 1 of 1



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445 (T) 760-744-0760 (F) 760-744-6475 Lic. No. 222252

Cost Proposal/Estimate for Extra Work

				LILES NO.	
				SCC COR NO.	136
PROJECT:	Vic	tor Valley Wastewater Reclamation Authority		SCC JOB NO.	100531
	Sul	pregional WRP's			
		.M. Lyles Co.			
TO:		tention: Grant Gourly			
	42	142 Roick Drive			
	Te	mecula, CA 92590			
THE FOLLOW	ING !	BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPR	OVAL:		
REFERENCE:	DC	122 VFD Wiring Modifications			
DESCRIPTION:	Pro	vide Wiring Modifications as directed in DC 122			
	(a)	Direct Materials [from Breakdown]	¢	18,060	
	(b)	Sales Tax on Materials [8.0% of (a)]		1,445	
	(c)	Direct Labor [from Breakdown]	_	1,945	
	(d)	Rental Equipment [from Breakdown]		510	
	(e)	Sales Tax on Rental Equipment [8.0% of (d)]	\$	41	
	(f)	Subcontract & Outside Services [from Breakdown]	\$	•	
	(g)	SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	22,001	
	(h)	Overhead and Profit:			
		Materials [15% of (a)+(b)]	\$	2,926	
		Direct Labor [15% of (c)]		292	
		Equipment [15% of (d)+(e)]	\$	83	
		Subcontract & Outside Services [15% of (f)]	. \$		
	(i)	SUBTOTAL [(g)+(h)]	\$	25,302	
	(j)	Bond [1.0% of (i)]	. \$	253	
	тот	AL PROPOSAL/ESTIMATE [(i)+(j)]	\$	25,555	
	Esti	mated Time Extension Required TBD	days		
SUBMITTED	BY:			12/14/201	7
		Brendan Bradford			
APPROVED	BY:	DATE:			

Breakdown of Direct Cost

								AV	VC PCO NO.	0
CONTRACTOR WORK ITEMS	QTY		ERIAL	LAB			BOR		EQUIPMEN'	
CONTINUE TO CONTIN	Q. I	UNIT (\$)	EXT	UNIT (HR)	EXT	UNIT (HR)	EXT		RATE (\$)	EXT
1 Hesperia		1			(1					
2 LS Pumps 01-P-110 and 01-P-120	1 lot	3,277.50	3,277.50	2.	-		1060			
3 Hesperia WRP Feed Forward Pumps	1 Lot		4,916.25		-					
4 EATON Drives MCC	1 Lot	2,475.00	2,475.00							-
5 Scc Support	1		_	2.00	2.00	8.00	8.00			
6 Truck		s 11						12.8	20.00	255.00
7 Apple Valley										-
8 Apple Valley Feed Forward Pumps	1 lot	4,916.25	4,916.25		-		-			-
9 EATON Drives MCC	1 Lot	2,475.00	2,475.00							-
10 Scc Support	1 Lot		-	2.50	2.50	13.00	13.00			
11 Truck								12.8	20.00	255.00
12			-		-		(·			-
13			-		-		0.50			•
14			-	1	-		28			•
15			-	1	-		(2)			•
16			-	1	-					•
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			-		-		1921			•
			-	1	-		(10)		- 1	•
			-		•					•
			-		•		(2)			•
			-		-		3.5			•
			8		-					•
				TOTAL HRS	4,50	TOTAL HRS	21.00			
				RATE / HR	\$81.24	RATE / HR	\$75.19			
TOTAL CONTRACTORS WORK		. 111	10 060 00	\$	365,58	\$	1,578.99	\$		510.00
TOTAL CONTRACTOR'S WORK		\$	18,060.00	,	303.38	3	1,3/6.99	3		310.00
				TOTAL HRS	5	\$	1,944.57			

SUBCONTRACTOR WORK ITEMS	OTV	MAT	TERIAL	LA	BOR	LABOR		EQUIPMENT		
SUBCONTRACTOR WORK ITEMS	QTY	UNIT (\$)	EXT	UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS RATE (\$)	EXT	
					1					
)					
						1				
TOTAL SUBCONTRACTOR'S WOR	RK	5		5	7 14.	\$		\$	Taraba I	

Steve Vickers

From:

Wadnal, Anthony < Anthony Wadnal@Eaton.com>

Sent:

Monday, September 25, 2017 4:35 PM

To:

Steve Vickers

Cc:

Pflimlin, Gina M; Craig Stephens

Subject:

RE: [EXTERNAL] DC 122 VFD wiring modification.pdf - QUOTE LSN00013935

Hey Steve,

The cost for parts and labor to rewire these drives, is below:

Rewire VFD's in MCC item 102 (units 2M & 3M) and MCC item 103 (units 6M & 7M) Cost for parts and labor - \$4,950 Estimated 2 days labor, including travel

Thanks!

Tony Wadnal
Sales Engineer
Eaton
4863 Shawline Street, Suite E
San Diego, California 92111
Office: +1 619 692-6273
Cell: +1 619 481-0141
anthonywadnal@eaton.com
www.eaton.com



From: Steve Vickers [mailto:SVickers@southerncontracting.com]

Sent: Thursday, September 21, 2017 10:01 AM

To: Wadnal, Anthony

Cc: Pflimlin, Gina M; Craig Stephens

Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf

Yes it is as you have shown these VFD's are in the MCC's

The others are Benshaw

From: Wadnal, Anthony [mailto:AnthonyWadnal@Eaton.com]

Sent: Thursday, September 21, 2017 9:59 AM

To: Steve Vickers <<u>SVickers@southerncontracting.com</u>>
Cc: Pflimlin, Gina M <<u>GinaMPflimlin@Eaton.com</u>>

Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf



CORPORATE OFFICE: 615 Alpha Drive, Pittsburgh, PA 15238

Telephone: 412, 968, 0100 • Fax: 412, 968, 5415

www.benshaw.com

QUOTATION

Date: Oct. 5, 2017

P.O.Number: Job Number:

Quote #: DP171005SC, Rev. 0

Terr/Rep/Sispren: PG/ML

Customer #: 3024413

Bill to Address: Southern Contracting 559 North Twin Oaks Valley San Marcos, CA 92069

Name: Steve Vickers Telephone #: 619-520-6248

Email: svickers@southerncontracting.com QUOTE VALID FOR 80 DAYS

Project or End User: Victor Valley Application : Pumps
Quote By : Dave Parshall

Ship To Address: TBD

Terms: Net 30 days /2% Monthly after 30 days

Freight: Prepaid & Add Ship Date: TBD

Ship Via: Best Way F.O.B.: Shipping Point

PLEASE REFERENCE QUOTE NUMBER WITH YOUR ORDER
UNIT PRICE EXTENDED PRICE PART NUMBER / DESCRIPTION ITEM | QTY Retrofit/Field Modification \$13,110.00 \$13,110.00 Work to be performed: 1. Benshaw to revise drawing sets per customer Mark Up dwgs. 2. Provide parts (relays, lights and misc wiring). Fleid Service to modify existing drives per reviswed drawings. See attached Summary Table. Fleid Service is included in the quoted price and includes estimated 4 hrs per drive Travel and Living expenses are included in the quote and these are also an estimate. Actual expenses will be invoiced.

'This proposal is subject to the Benshaw, Inc. Standard Terms and Conditions of Sale. A copy is available on request. - Due to the uncontrollable rise in commodity material costs & fuel, all orders that ship 6-

months post order entry date, due to customer delays are subject to surcharges.

SUB TOTAL

\$13,110.00



Summary Table

Quote # DP171005SC, Rev. 0 (Pg. 2)

Hagse	Location	D	Dwg	Rav.	Exstorner Mark Up Control Dwg	High Pressure Reiny	Common Ruft Refey	High Preserve Alexan List	Common Fault Light	High Pressure	Asset
	以上100万个公司	HE SHEET	KALISTS TO FASTER BUILDING TO	124	理語解	松为野	Bit We	ANIMAR	州南北 湾	ESPEC.	CHIEF THE CO.
						CR4	CR7	LT4	177	TD2	PRI
Feed Forward Pursue	Hausiurla WRP	05-P-110	RSB19060304CBA12-ENG-00002	7	04 E-02	Mod	Add	Add	Add	Mod	Add Gorass
		05-P-420	RSIS19068SG4CSA12-ENG-00002	7	06-2-04	Mod	Add	Add	Add	Mod	Add Contac
	7-4-31		R865190608G4CBA12-ENG-00002	7	89-E-02	Mod	Add	Add	Add	Mod	Add Codes
	Same Personal	可印度研究	18 一部产生一个大学中以中国大学的	460	医院规则	Arra Car	125 15	1676年1	A STATE OF THE STATE OF	77,085.5	建工作的
	1 1 1 1 1 1 1 1	-C-19-4		1		CR4	CR7	1374	LT7	TDI	FB3
Feed Forward Pumps	Apple Valley	05-P-110	RS15180605040BA12-ENG-00003	6	04-E-02	Mod	Add	Add	Add	Mod	Add Contac
		05-P-120	R625180868694C6A12-ENG-00003	- 6	06-E-04	Mad	Add	Add	Ada.	Mod	Add Ourtes
25. 10. 10. 10. 10.	Contract of the Contract of th	05-P-130	RSI5190003G4CBA12-ENG-00003	- 6	09-E-02	Mod	Add	Add	Add	Mod	Add Contac
では他の意味を	建筑 100 100 100	が後半年	直接的表现的是由种种企业的特别	1000	建筑器域	19033	VICE STATE OF	被压湿	South St.	TO ASSESS	A \$51,0557.5
				11.15.1	10.00	CR7	CRB	L77	L74	TDZ	PES
All Studios Perregu	HEB LIN Station	31-P-110	R6I5190606G4CBA12-ENG-90001	8	00-E-09A	Mod	Add	Add	Mod	Mod	Add Cortac
	20,000	01-F-120	RSI618060SG4CBA12-ENG-00001	А	N90-3-00	Mod	Add	Add	Mod		Add Centso

100-0477A Rau.

2040918



BENSHAW STANDARD TERMS AND CONDITIONS OF SALE

APPLICABILITY/ACCEPTANCE OF TERMS/ENTIRE AGREEMENT. Unless otherwise provided, the sale by Benshaw, Inc. ("Seller") of any products or services described herein shall be governed solely by these terms and conditions of sale and such other provisions agreed upon in writing by duly authorized representatives of Seller. Any oral understandings are expressly excluded. Seller shall not be deemed to have waived these terms and conditions of sale if it fails to object to provisions appearing on, incorporated by reference in, or attached to Buyer's purchase order, written acknowledgement or other authorization to proceed, which provisions are hereby expressly rejected. Buyer's silence or acceptance or use of products constitutes its acceptance of these terms and conditions of sale shall apply to any order for products whether or not they are referenced in such order.

CANCELLATION. Buyer has no right to cancel this order, in whole or in part, absent the prior written agreement of Seller.

PRICES AND PAYMENTS. After formal credit approval, payment terms are net thirty (30) days from the date of invoice. Without credit approval, ten percent (10%) of the total price is due in advance, with the balance C.O.D. A one and one half percent (1.5%) monthly service charge will be added to invoices not paid within thirty (30) days of the Invoice date. If, in Seller's sole judgment, the financial condition or credit-worthiness of Buyer does not warrant shipment of the products ordered, Seller may at its option require full payment prior to shipment, or may refuse to ship without Seller incurring liability to Buyer.

CONFLICTING PROVISIONS. In the event of any conflict between these terms and conditions of sale, and the provisions contained in any purchase order, confirmation, or other similar document issued to Seller by Buyer, the provisions of these terms and conditions shall prevail.

ASSIGNMENT, Neither party shall assign these terms and conditions of sale and any purchase order or any portion thereof without the advance, written consent of the other party, which consent shall not be unreasonably withheld. Notwithstanding the foregoing, Selker may assign this agreement to any entity controlled by or moder common control of Benshaw. Inc

WAIVER, Failure by Seller to assert all or any of its rights upon any breach of these terms and conditions of sale shall not be deemed a waiver of such rights either with respect to such breach or any subsequent breach, nor shall any waiver be implied from the acceptance of any payment or service.

INSPECTION. Buyer shall inspect and accept or reject products delivered pursuant to these terms and conditions and the purchase order promptly after Buyer takes custody of such products. In the event the products do not comply with the applicable specifications, Buyer shall notify Seller of such noncompliance and Seller shall have a reasonable opportunity to correct any such noncompliance. Buyer shall be deemed to have accepted any products delivered hereunder and to have waived any such noncompliance in the event Seller does not receive such notification from Buyer within fifteen (15) days after Buyer takes custody

WARRANTY. Seller warrants that the products and services delivered to Buyer shall be free from defects in material and workmanship, provided that the unit has not been subject to accident, abuse, or misuse, and that the unit has been operated in accordance with the manufacturer's recommendations. Such warranty shall be effective for a period of 12 months after installation or 18 months after delivery, whichever occurs first. If a product is determined to be in breach of this warranty, Seller shall repair or replace such product, at its option, which shall be Buyer's sole remedy for such breach of warranty. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WHETHER STATUTORY OR OTHERWISE, AND BUYER WAIVES ALL OTHER WARRANTIES, OBLIGATION OR LIABILITIES, ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION AN IMPLIED WARRANTY OF COMMERCIAL ACCEPTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS

EXCUSABLE DELAY. The Seller shall be excused from delays in delivery and performance of other contractual obligations under the purchase order caused by acts or omissions that are beyond the reasonable control and without the fault or negligence of Seller including but not limited to Government embargoes, blockades, seizure or freeze of assets, delays or refusals to grant an export license or the suspension or revocation thereof, or any other acts of any Government, fires, floods, severe weather conditions, or any other acts of God, quarantines, labor strikes or lockouts, riots, strife, insurrection, civil disobedience, war, material shortages or delays in deliveries to Seller by third parties. If the excusable delay circumstances extend for six months, either party may, at its option, terminate these terms and conditions of sale and the purchase order without penalty or liability and without being deemed in default or in breach thereof.

TITLE RETENTION AND SECURITY INTEREST. Seller retains title to the equipment until the Buyer performs all its obligations under this Agreement. Seller retains and Buyer grants a security interest in the equipment to secure performance of all Buyer's obligations arising under this Agreement. At the request of Seller, Buyer will execute one or more financing statements in a form satisfactory to Seller.

INSURANCE. Buyer shall maintain and carry liability insurance which includes but is not limited to commercial general liability (including product liability and for services to be performed, completed operations liability) in a sum no less that \$5 million, automobile liability in a sum no less than \$5 million, workmen's compensation in an amount no less than the applicable statutory minimum requirement and employer's liability in an amount of no less that \$1 million, with insurance carriers acceptable to Seller. Buyer will, if requested by Seller, furnish certificates of insurance from its carrier(s) on the foregoing

SPECIAL TOOLING AND DATA. Unless otherwise agreed in writing, all material, software, data, processes, equipment, facilities and special tooling, which term includes but is not limited to jigs, dies, fixtures, mold, patterns, special taps, special gages, special test equipment, other special equipment and manufacturing aids and replacements thereof, used in the manufacture of products covered by an order shall be and remain the property of Seller. Seller retains all rights title and interest in drawings, engineering instructions, specializing, and ell other written data if say furnished with the products.

TIME OF DELIVERY. Unless otherwise agreed in writing by the Seller, delivery of the Goods shall be made ex-works on a day nominated by the Seller, time not being of the essence, and the Buyer shall be responsible for their prompt collection, transport, off loading and storage. The Seller may, at the Buyer's request, sole risk and expense, arrange carriage of the Goods, in which case the Buyer will be responsible for their prompt off-loading. In all cases, the Buyer shall be responsible for the safe and proper storage of the Goods once they have been delivered. If the Buyer is not able for any reason promptly to accept delivery of the Goods or the Seller exercises its right to withhold delivery of the Goods due to Buyer's financial condition or failure to timely pay Seller, the Seller may, at its discretion and as appropriate, charge the Buyer for any delay in collection or transport or off-loading of the Goods and for their storage and

Any delivery dates notified to the Buyer by the Seller are given by the Seller in good faith, but are business estimates only and the Seller will not be liable to the Buyer for any loss or damage sustained by the Buyer as a result of the Seller's failure to comply with them for whatever reason. The Seller may at its own discretion make delivery of the goods by installments. Each installment shall be treated as the subject of a separate contract upon these terms and conditions and the Seller may invoice for each installment separately.

LIMITATION OF LIABILITY. The sole exclusive remedies of Buyer are those specifically set forth herein Seller's maximum liability for any and all claims arising directly or indirectly from the performance of its obligations under any Agreement with Buyer, including any warranty set forth herein, whether resulting from breach of contract, breach of warranty, tort, products liability, negligence or otherwise, shall not exceed the aggregate purchase price of the particular angeligence.

and services which are the subject of the claim. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE TO BUYER OR ANY THIRD PARTY FOR LOSS OF BUSINESS, LOST PROFITS, OR ANY OTHER ECONOMIC LOSS, OR ANY INCIDENTAL, EXEMPLARY, INDIRECT, SPECIAL OR CONSECUENTIAL DAMAGES EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

INTELLECTUAL PROPERTY INDEMNITY. Except insofar as a purchase order calls for products pursuant to Buyer's designs, drawings or specifications, Seller agrees to pay the amount of any final judgment against Buyer resulting from a suit claiming that any commercial products manufactured or furnished hereunder, by reason of their manufacture, sale or use, infringes any United States patent which has issued at date of contract, and Buyer's reasonable costs and expenses in defense of such suit if Seller does not undertake the defense thereof, provided Seller is promptly notified of the threat or commencement of such suit and is offered full and exclusive control to conduct the defense or settlement thereof. Seller's indemnity shall not apply where infringement would not have occurred from the normal use for which the products were designed. Seller's liability for damages hereunder is limited to those computed solely on the value of

In no event shall Seller be liable for consequential damages or costs applicable thereto. Buyer agrees to pay all costs and expenses incurred by Seller in its defense and the amount of any judgment against Seller, in any suit or proceeding against Seller based upon a claim of infringement resulting solely from the Buyer combining any product furnished hereunder with any item not manufactured or furnished by Seller or from the sale or use of any such combination by Buyer. In the event any product to be furnished under the purchase order is to be made in accordance with drawings, samples or manufacturing specifications designated by Buyer and is not the design of Seller, Buyer agrees to defend, indemnify and hold Seller harmless to the same extent and subject to the same requirements as set forth in Seller's obligation to Buyer as above. The rights and obligations above are in lieu of any other indemnity or warranty, express or

EXPORT CONTROL. The products or information covered by this agreement may be subject to export regulations of the U.S. Government. Buyer will not export, re-export, resell, transfer or disclose, directly or indirectly, any product, technical data or software obtained hereunder outside the U.S. without (i) complying with applicable export control laws, (ii) notifying and obtaining written permission of Seller, and (iii) providing such reasonable assurances as Seller may request

SOFTWARE LICENSE. In the event that any software or software documentation is provided to Buyer by Seller in any form whatsoever under a purchase order and no software license agreement governing this transfer has been signed between Buyer and Seller, Buyer and Seller agree to accept the terms and conditions stated below effective the date of the first delivery hereunder. Subject to the terms and conditions herein, the Seller grants to Buyer a nonexclusive, nontransferable license to use the software or software documentation provided between

(i) in the course of the normal operation in or with Seller products, (ii) on Seller or non-Seller products that are used to test, maintain, download, or process information compiled by Seller products. All title and ownership of such software and software documentation, including, without limitation, the copyrights thereto, shall remain exclusively with Seller. Buyer shall not itself, or with the assistance of others, decompile, reverse engineer, or in any other manner attempt to decipher in whole or in part the logic or coherence of any software or software documentation licensed hereunder. Third party software provided by Seller

may be exhiber to a converte license agreement and limitations or require and use

TAXES. The prices quoted herein do not include sums necessary to cover any taxes or duties including but not limited to Federal, State, municipal excise, sales or use taxes or import duties upon the production, sales, distribution, or delivery of goods or furnishing of services hereunder. Any taxes or duties that are due and owing hereunder shall be paid by the Buyer.

RISK OF LOSS. Unless otherwise agreed to in writing, all risk of loss, theft, or damage from any cause whatsoever, shall be on the Buyer and it's insurers, if any, after the delivery by Seller to the carrier at F.O.B. point.

INSOLVENCY/BANKRUPTCY/FINANCIAL DEFAULT. If the Buyer fails to pay any sum due to Seller hereunder, or shall fail to satisfy any of its obligations hereunder and such default shall continue for ten (10) days after the sending by Seller to the Buyer by a registered letter advising of such default, or if the Buyer by the subject of any proceedings under bankruptcy laws or other insolvency laws or be declared subject to judicial supervision or enter into limitation. Seller shall have the right to impreciately represents and to terminate this Agreement.

SETOFF. All amounts that Buyer owes Seller under an order shall be due and payable according to the terms of such order. Buyer is prohibited from and shall not set off such amounts or any portion thereof, whether or not liquidated, against sums which Buyer asserts are due it, its parent affiliates, subsidiaries or other divisions or units under other transactions with Seller, its parents, affiliates, subsidiaries or other divisions or units

INDEMNITY. Buyer will indemnify, hold harmless and defend Seller from and against any claims, suita, judgments, expenses or liabilities of any nature (including without limitation all reasonable attorneys' fees) which are threatened or brought against, or are incurred by, Seller arising from any actions, omissions or missenessentations of Buyer in the use, promotion, or sale of products or services provided by Seller under this sale.

DISPUTE RESOLUTION FOR CONTRACTS WITH NON-U.S. ENTITIES. If either party to this Contract is a non-U.S. entity, any dispute, controversy or claim arising out of or relating to this Agreement, or the breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the International Chamber of Commerce ("ICC") Rules of Arbitration as in force at the commencement of the arbitration. The arbitration shall be conducted by a sole arbitrator that is appointed by the ICC in Accordance with its Rules. The place of arbitration shall be Geneva, Switzerland. Any arbitral tribunal constituted to the arbitration shall be conducted in English. The award of the arbitrator shall be final and binding upon the parties and may be entered and/or enforced in any

The arbitration shall be conducted in English. The award of the arbitrator shall be final and binding upon the parties and may be entered and/or enforced in any court of competent jurisdiction. The parties acknowledge that this Agreement and any award rendered pursuant to it shall be governed by the United Nations Convention on the Recognition and Enforcement of Foreign Arbitral Awards. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for rentertion and enforcement of its intellectual property rights

DISPUTE RESOLUTION FOR CONTRACTS WITH U.S. ENTITIES. If both parties to this Contract are U.S. entities, any controversy or claim arising out of or relating to this Agreement or its breach shall be settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("AAA") then in effect. The arbitration shall be conducted by a sole arbitrator that is appointed by the AAA in Accordance with its Rules. No arbitrator may be affiliated, whether directly or indirectly, with any of the parties, including, without limitation, as an employee, consultant, partner or shareholder. The arbitrator(s) shall permit each of the parties to the Arbitration to engage in a reasonable amount of discovery. In the event either party requests arbitration, the arbitration shall be held in Charlotte, North Carolina. The award by the arbitrator or arbitrators shall be final, and judgment upon the award randered may be entered in any court having jurisdiction thereof. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for protection and

APPLICABLE LAW. Except for agreements with non-U.S. entities, this agreement shall be interpreted in accordance with the laws of the State of New York, exclusive of any choice of law provisions. The Seller and Buyer expressly agree to exclude from this Agreement the United Nations Convention on Contracts for the International Sale of Goods. 1980, and any successor therein

COST OF COLLECTION AND ATTORNEYS FEES. In the event any action is taken by Seller to collect amounts billed to Buyer by Seller, Buyer shall be liable for all costs and expenses incurred by Seller in relation thereto, including legal fees.

100-021 Rev. D

02/2015

Approval: L. Mannella.

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH - DC 114 - MBR Instrument Air Compressor Electrical Changes

Type:

RFC - Request for Change

Contract:

10943 - Hesperia

W M Lyles Co

Contractor: ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - Hesperi Status:

Submitted:

Submitted To:

Priority:

Pending On User:

Anderson, EADOC-VVWRA-Sub-R -Lynene Voelker, EADOC-VVWRA

High

Pending

10/02/2017

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Grant Gourley, EADOC-VVWRA-Sub

-R - Juan Castillo, EADOC-VVWRA

EADOC-VVWRA-Sub-R - Alton

-Sub-R - Juan Castillo Victor Valley Wastewater

-Sub-R - Lynene Voelker

Pending On Org:

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

10/02/2017

Contractor's PCO #:

The MBR instrument air compressors shown on Drawing 00-E-04 are shown to be fed

by separate 40A

Reason:

Design Omissions

Requested By: Owner

breakers. During the meeting with Eaton on March 24, 2016, it was determined and

communicated to

HDR that the air compressors would be controlled from a single local control panel

(LCP), and that a 50

ampere (A) feeder breaker would be sufficient to power the LCP.

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: Amount Added:

769,284.22 -1,036.50

New Approved Amount:

768,247.72

Current Contract Duration: Days Added:

821 0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

16-55

eadoc

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

Correspondence # 139

DCM # 114 DC 114 - MBR Instrument Air Compressor

Closed

Electrical Modifications

DC 114 - MBR Instrument Air Compressor

Closed

Electrical Changes

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Mo. 00122 Phone: 951-973-7393 Phone: 951-973-7393 Phone: 951-973-7393 Phone: 951-973-7393 Phone: 951-98-3031 Phone: Phon	W.M.	Lyles				CHANGE	ORDER REQUEST
TTTLE: DC 114 PROJECT: Victor Valley Subregional WRPq JOB: 100531 TO: Attn: Steve Vickers Southern Contracting Co. P.O. Box 445 559 N. Twin Oaks Valley Road San Marcos, CA 92079-0445 Phone: 760-744-0760 Fax: 760-744-6475 RE: To: From: Number: DESCRIPTION OF PROPOSAL Change from 2 feeds to a single feed to LCP Conduit marked as spare no credit for conduit Item Description Revoute wiring and dekte fred Description Revolute wiring and dekte fred Credit Totals: Credit Totals: Credit Totals: TORY = \$1,036.50							No. 00122
PROJECT: Victor Valley Subregional WRPq JOB: 100531 TO: Attn: Steve Vickers Southern Contracting Co. P.O. Box 445 559 N. Twin Oaks Valley Road San Marcos, CA 92079-0445 Phone: 760-744-0760 Fax: 760-744-6475 RE: To: From: Number: DESCRIPTION OF PROPOSAL Change from 2 feeds to a single feed to LCP Conduit marked as spare no credit for conduit Item Description Stock # Quantity Units Unit Price Tax Rate Tax Amount Net Amount (\$2,073.00) Remote wing and delete feed 1.000 (\$2,073.00) Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)							. 3
TO: Attn: Steve Vickers CONTRACT NO: 1 Southern Contracting Co. P.O. Box 445 559 N. Twin Oaks Valley Road San Marcos, CA 92079-0445 Phone: 760-744-0760 Fax: 760-744-6475 RE: To: From: Number: DESCRIPTION OF PROPOSAL Change from 2 feeds to a single feed to LCP Conduit marked as spare no credit for conduit Item Description Stock # Quantity Units Unit Price Tax Rate Tax Amount Net Amount (\$2,073.00) Revoute wining and delete feed Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)	TITLE:	DC 114				DATE: 03/16/2	017
Southern Contracting Co. P.O. Box 445 559 N. Twin Oaks Valley Road San Marcos, CA 92079-0445 Phone: 760-744-0760 Fax: 760-744-6475 RE: To: From: Number: DESCRIPTION OF PROPOSAL Change from 2 feeds to a single feed to LCP Concluit marked as spare no credit for conduit Item Description Stock # Quantity Units Unit Frice Tax Rate Tax Amount Net Amount 00001 Reroute wining 1.000 (\$2,073.00) Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)	PROJECT	: Victor V	alley Subregion	al WRPq		JOB: 100531	
P.O. Box 445 559 N. Twin Oaks Valley Road San Marcos, CA 92079-0445 Phone: 760-744-0760 Fax: 760-744-6475 RE: To: From: Number: DESCRIPTION OF PROPOSAL Change from 2 feeds to a single feed to LCP Conduit marked as spare no credit for conduit Item Description: Stock # Quantity Units Unit Price Tax Rate Tax Amount Net Amount 00001 Reroute wiring and delete feed 1.000 (\$2,073.00) Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)	TO:	Attn: St	eve Vickers			CONTRACT NO	O: 1
Phone: 760-744-0760 Fax: 760-744-6475 RE: To: From: Number: DESCRIPTION OF PROPOSAL Change from 2 feeds to a single feed to LCP Conduit marked as spare no credit for conduit Item Description Stock # Quantity Units Unit Price Tax Rate Tax Amount Net Amount (\$2,073.00) Reroute wining and delete feed 1.000 (\$2,073.00) Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)		P.O. B	Sox 445			٠	
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Credit Totals: Toav = \$1,036.50 Change from 2 feeds to a single feed to LCP Conduit marked as spare no credit for conduit Unit Price Tax Rate Tax Amount Net Amount (\$2,073.00) Tax Rate Tax Amount Net Amount (\$2,073.00) Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)		Phone	760-744-0760	Fax: .76	0-744-6475		
Change from 2 feeds to a single feed to LCP Conduit marked as spare no credit for conduit Item Description Reroute wiring and delete feed 1.000 (\$2,073.00) Reroute wiring and delete feed 1.000 (\$2,073.00) Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)	RE:	,	To:		From:	Number	**
Conduit marked as spare no credit for conduit	DESCRIPT	TON OF PR	OPOSAL			· ·	
00001 Reroute wiring and delete feed 1.000 (\$2,073.00) Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)							
Unit Cost: (\$2,073.00) Unit Tax: \$0.00 Total: (\$2,073.00)	Item	Description	Stock #	Quantity Uni	s Unit Price		Amount Net Amount
Unit Tax: \$0.00 Total: (\$2,073.00) Credit Totals: TOAV = \$1,036.50				1.000	(\$2,073.00)	0.00%	\$0.00 (\$2,073.00)
Unit Tax: \$0.00 Total: (\$2,073.00) Credit Totals: TOAV = \$1,036.50						Unit Cost	t: (\$2,073.00)
Credit Totals: TOAV = \$1,036.50						Unit Tax	•
TOAV = \$1,036.50						Total	(\$2,073.00)
TOAV = \$1,036.50							
TOAV = \$1,036.50					a "		
			Credit To	tals:			

APPROVAL:			
Ву:		By:	
	Steve Vickers		Grant Gourley
Date:		Date:	
Princepora (b			Maria A



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445 (T) 760-744-0760 (F) 760-744-6475 Lic. No. 222252

Cost Proposal/Estimate for Extra Work

		LYLES NO
		SCC COR NO. 122
PROJECT:	Victor Valley Wastewater Reclamation Authority	SCC JOB NO100531
	Subregional WRP's	State By your
mo.	W.M. Lyles Co.	
TO:	Attention: Grant Gourly 42142 Roick Drive	
	Temecula, CA 92590	
	Temecula, CA 32330	
THE FOLLOWI	NG BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPRO	OVAL:
REFERENCE:	DC 114 MBR Instrument Air	
DESCRIPTION:	Re-route conduit and wire as directed	
	Delete feed	
	Direct Materials [from Breakdown]	
	(b) Sales Tax on Materials [8.0% of (a)]	
	(c) Direct Labor [from Breakdown]	
	(d) Rental Equipment [from Breakdown]	
	(e) Sales Tax on Rental Equipment [8.0% of (d)]	
	(f) Subcontract & Outside Services [from Breakdown]	3 -
	(g) SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$ (2,052)
	(h) Overhead and Profft:	
	Materials [0 of (a)+(b)]	\$ -
	Direct Labor [15% of (c)]	
	Equipment [15% of (d)+(e)]	
	Subcontract & Outside Services [15% of (f)]	. \$ -
	(i) SUBTOTAL [(g)+(h)]	\$ (2,052)
	(j) Bond [1.0% of (i)]	
	TOTAL PROPOSAL/ESTIMATE [(i)+(j)]	\$ (2,073)
	Estimated Time Extension Required TBD	days
ÇI IRAAITTER	RY: DATE:	10/4/2017
JODANIIILL	BY: DATE:	10/ // 2017
∆PPR∩VFT	DATE:	
VI LIGATE		

Breakdown of Direct Cost

		7					AWC PCO NO.	0
	CONTRACTOR WORK ITEMS	QTY	MATE			OR	EQUIPMEN	IT .
			UNIT (\$)	EXT	UNIT (HR)	EXT	RATE (\$)	EXT
1	Hesperia	1	1					
2	Lot Material and Labor per	(1) lot	217.42	(217.42)	8.32	(8.32)		
3	attached	1				(0.02)		
4	60A 3p 600V Disconnect	(1)	173.00	(1 73 .00) -				
5 5	Hesperia	1 1	1	- 1	4.	-		
,	Lot Material and Labor per	1 00 1-4	247 42					
	attached	(1) lot	217.42	(217.42)	8.32	(8.32)	4	
}	60A 3p 600V Disconnect	(1)	173.00	(173.00)		-		
0		1 1		.		-		
1		1 1		1	1	:		
2		4				-		
3		1 1		-		-		
4		1		-		-		
5				-		-		
0			1	- 1		.		
				-		: 1		
		1 1				-		
				- []		- 1		
		1 1		-		.	- 1	
				-		.		
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		1 1		-		.		,
				-		-		
		4		-		-		
				1.1		- : 1		,
				1		-		
					TOTAL HRS RATE / HR	(16.64) \$ 72 .67		
	TOTAL CONTRACTOR'S WOR	K	\$	(780,84)	\$ 1	1,209.23)	\$	

SUBCONTRACTOR WORK ITEMS	QTY	MATE	RIAL	LAB	OR		EQUIPMEN	L
		UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
TOTAL SURCONTRACTORS WO	/br	e		(e		
Southern Contracting Co.							Page 2	of 3

Job Name: Victor Valley WRA Job Number: 1763 Extension Name: dc 114 MBR AC

[Items and ByProducts]

Material Filter: <None>
Report: Price 1 & SCC Bid Labor

Miles at	a management and the second			Thatta		
Label Set: Co	ombined, Combined, Combined, Co.	mbined, Combined	(\$217,42)	-8,32		
Cost Code: 0	120 - Wire/Cable		(\$217.42)	-5.28		
75 1	IO XHHW CU STRANDED	-150.00 \$183.10 M	(\$27.46) 640 M	-0.96	c020	0.00
77	6 XHHW CU STRANDED	-450.00 \$422,13 M	(\$189.96) M	-432	c020	19.32
Cost Code: 0	30 - Power Distribution	34 1 271 11-22-34	\$0.00	-3.04		110
8,801 6	50A 600V 3 PH 3 FUSED	-1.00 \$0.00 Q	\$0.00 \$ 3.04 E	-3,04	c030	"我们,我们们们的
[Items and I	ByProducts] Total:		(\$217.42)	-8.32		THE STATE OF THE

Courtesy of McCormick Systems Inc.

Page 4

10/6/2017 7:50 AM

Sub-Regional WRP Projects Sub Regional WRP Projects





COH - DC 119 - Supervisory Relay

Modifications

Type: RFC - Request for Change

Contract: Contractor: 10943 - Hesperia W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - HesperiaStatus:

Priority:

Submitted:

Submitted To:

Pending On User:

Pending On Org:

EADOC-VVWRA-Sub-R - Alton

Pending

High

10/02/2017

Anderson, EADOC-VVWRA-Sub-R -

Lynene Voelker, EADOC-VVWRA

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Grant Gourley, EADOC-VVWRA-Sub

-R - Juan Castillo, EADOC-VVWRA

-Sub-R - Juan Castillo

-Sub-R - Lynene Voelker

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers, W M Lyles Co

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

10/02/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 769,284.22 **Amount Added:** 6,145.01 **New Approved Amount:** 775,429.23 **Current Contract Duration:** 821 Days Added: 0 **New Contract Duration:** 821

Budget: Funding:

Cost Item:

16-61

eadoc

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

DC 119 - Supervisory Relay Modifications-DCM # 119 Closed

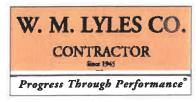
RFI 411

DC 119 - Supervisory Relay Modifications Correspondence # 142

Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Item 1	Description Labor	Estimated Cost Change		%	Adjusted Cost Change	
		\$			\$	_
2	Materials	\$			\$	
3	Equipment	\$	-		\$	-
	CAT Material Credit				\$	-
	Total	\$			\$	
	Markup			15%		
	Subtotal	ė			\$	
Subs	Subtotal	Ş	_		Ş	-
4	Southern Electrical	\$	4,230.76		\$	3,642.5
		\$	714.67		\$	615.3
	Subcontract Subtotal	\$	4,945.43		\$	4,257.8
	Subontractro Bond & Ins	\$	49.45	1%		
		_	4 004 00		_	
	Subtotal	\$	4,994.89		\$	4,257.8
	GC-Subcontractor Markup	\$	249.74	5%	\$	212.8
	Total	\$	5,244.63		\$	4,470.6
	Subcontractor OH&P			15%	\$	638.6
	Subcontractor Bond & Ins			1%	\$	42.5
	GC Bond & Ins	\$	52.45	1%	\$	44.7
	Total	ċ	5,297.08	сон	\$	5,196.6



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

> www.wmlyles.com An Equal Opportunity Employer

January 26, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-90 - DC 119 Supervisory Relay Modifications

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC 119 to provide four supervisory relays for the Storm Water Pump Control Panels. Below is the cost incurred for making the modifications.

Trimax \$829.02 \$4,486.97 Southern Total \$5,315.99 \$5,196.64

The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive

W.M. Lyles Co.

Corporate Office: 1250 W. Olive, Fresno, CA 93728 Telephone: (559) 441-1900 • Fax (559) 487-7958



From: Brian Bryce

COR – Change Order Request

Trimax Systems COR No. 43

To: Southern Contracting Company

559 N. Twin Oaks Valley Rd.

San Marcos, CA 92069

Attention: Steve Vickers

Date:

January 17, 2018

Job No.: Project: P-2192

Victor Valley Wastewater Reclamation District

Subregional Water Reclamation Plants

ed: February 24, 2017

Date Required: Februa **Supporting Docs:** DC119

wing Ref.: None

Drawing Ref.:

None

Spec Ref.: 11312G-3 2.01

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Fixed Price	\$1,427.50	N/A	None

Subject:

Supervisory relays four (4) total for pumps P-1510 & P-1520 at Hesperia and Apple Valley

Summary:

Provide four (4) supervisory KSB pump safe relays in Storm Water Pump Control Panels 01-LCP-500 for both Hesperia and Apple Valley per Trimax RFI-055.

Includes installation, wire, testing and updates to drawings and schematics.

Please issue a change order for \$1,427.50 for the above requested changes.

Trimax Systems, Inc. has completed this work and the pricing is based on T&M costing.

TOAV
Trimax \$713.75
WML Markup \$107.06
WML Bond \$8.21
Total \$829.02



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445 (T) 760-744-0760 (F) 760-744-6475 Lic. No. 222252

Cost Proposal/Estimate for Extra Work

LYLES NO.

				SCC COR NO. 1	31
PROJECT:	Sub	tor Valley Wastewater Reclamation Authority pregional WRP's M. Lyles Co.		SCC JOB NO.	100531
TO:		ention: Grant Gourly			
		142 Roick Drive			
	Ter	necula, CA 92590			
THE FOLLOW	ING E	BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPRO	OVAL:		
REFERENCE:	DC1	119			
DESCRIPTION:	T a	nd M Supervisory Relays			
	-				
		Direct Materials [from Breakdown]	\$	6,745	
	(b)	Sales Tax on Materials [8.0% of (a)]		540	
	(c)	-	_	_	
		Rental Equipment [from Breakdown]		-	
		Sales Tax on Rental Equipment [8.0% of (d)] Subcontract & Outside Services [from Breakdown]			
	(f)	Subcontract & Outside Services [Holli Breakdown]	<u> </u>		
	(g)	SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	7,285	
	(h)	Overhead and Profit:			
		Materials [15% of (a)+(b)]	\$	1,093	
		Direct Labor [15% of (c)]		-	
		Equipment [15% of (d)+(e)]		•	
		Subcontract & Outside Services [15% of (f)]	\$	-	
	(i)	SUBTOTAL [(g)+(h)]	\$	8,378	
	(j)	Bond [1.0% of (i)]	\$	84	
	TOT	TAL PROPOSAL/ESTIMATE [(i)+(j)]	\$	8,462	
	F-4:	imated Time Extension Required TBD	days	WML Mar	kup - \$423.1
	ESU	imated Time Extension Required TBD	uays		.d - \$88.85
					al - \$8,973.
SUBMITTED) RY•	DATE:		1/26/20	18
Jobinaries		Brendan Bradford			
APPROVED	BY:	DATE:			
		Carren	T	AAAA	LALLE
		7			4

16-66

Breakdown of Direct Cost

				-		AWC PCO NO.	0
CONTRACTOR WORK ITEMS	QTY		ERIAL	170	BOR	EQUIPMEN	
		UNIT (\$)	EXT	UNIT (HR)	EXT	RATE (\$)	EXT
This Design Clarification (DC) includes the wiring modifications for the supervisory relays needed to meet the pump supplier's warranty requirement, per RFI 411. Control wiring diagrams for the following pumps are revised: Reclaimed water pumps (CD-10), Plant water pumps (CD-10A), Feed forward pumps (CD-05), and Hesperia LS pumps (CD-01). All of the control wiring diagrams listed above have also been modified to provide an ON-DELAY contact for the suspension of the evaluation of the pump protection circuits upon energization. The contact from an existing ON-Delay timer was used for the RWPS and FFPS pumps. However, a new ON-Delay timer was needed for the Hesperia Lift Station pumps.	Lot	6,745.13	6,745.13				3
				TOTAL HRS RATE / HR	\$69.14		
TOTAL CONTRACTOR'S WORK		s	6,745.13	\$	407,17	\$	

SUBCONTRACTOR WORK ITEMS	QTY		ERIAL		LABOR EQUIPMEN		T	
SOBCONTRACTOR WORK ITEMS	QII	UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
						ŀ		
		1						
		1				li .		
		1						
		1					- 1	
		1						
		1					- 1	
		1 1						
TOTAL SUBCONTRACTOR'S WORK		\$		\$	1, 1191	c		-15-12-
						,		-



CORPORATE OFFICE **615 ALPHA DRIVE** PITTSBURGH, PA 15238 PHONE: 412, 968, 0100 FAX: 412.968.5415 www.benshaw.com

BENSHAW CANADA 550 BRIGHT ST. E. LISTOWEL, ONTARIO N4W 3W3 CANADA

> PHONE: 519.291.5112 FAX: 519 . 291 . 2595 www.benshaw.com

QUOTATION: 100162424 Rev.5/10/2017 1:53 PM

DATE

3/24/2017

PROJECT/APPLICATION

RSI015SG4CBA12-ENG-00001

PO NUMBER

PO 36996 (Change Order 00001)

QUOTED BY

Brian Barrett

JOB NUMBER REF

MODIFACTIONS PGH004180

CUSTOMER

SOUTHERN CONTRACTING COMPANY SHIP TO NAME

HESPERIA WRP

BILL TO ADDRESS

559 NORTH TWIN OAKS VALLEY ROAD SHIP TO ADDRESS

14269 MOJAVE STREET

SAN MARCOS

CA

HESPERIA CA

92069

92345 US

US

STEVE VICKERS

TERMS

BUSINESS PHONE

(760) 744-0760

Net 30 Due

MOBILE PHONE

(619) 520-6248

FAX

NAME

SHIP VIA

FREIGHT

BESTWAY (RBC CC GROUP)

Total

\$5,897.13

EMAIL

svickers@southerncontracting.com

FOB

Shipping Point

QUOTE VALID FOR 60 DAYS

PLEASE REFERENCE QUOTE NUMBER WITH YOUR ORDER

LINE	QTY	ITEM	TYPE	PRICE	UOM	NET
1	6.0	TRAVEL LV OVERTIME	Bill Only	\$159.00	HR	\$954.00
2	6.0	LABOR LV OVERTIME	Bill Only	\$159.00	HR	\$954.00
3	7.0	TRAVEL LV	Bill Only	\$106.00	HR	\$742.00
4	16.0	LABOR LV STANDARD	Bill Only	\$0.00	HR	\$0.00
5	1.0	FS AIRFARE	Bill Only	\$1,183.88	EA	\$1,183.88
6	1.0	FS HOTEL	Bill Only	\$947.60	EA	\$947.60
7	6.0	FS MEALS	Bill Only	\$40.00	DA	\$240.00
8	1.0	FS RENTAL CAR / TAXI	Bill Only	\$339.46	EA	\$339.46
9	180.0	FS MILEAGE	Bill Only	\$0.70	MI	\$126.00
10	1.0	FS MISC	Bill Only	\$115.00	EA	\$115.00
				9	Subtotal	\$5,601.94
				T&E Administrat	ion Fees	\$295.19

Please note that this is an estimate. Benshaw, Inc. invoices per the current service rate sheet for actual services rendered. Weekend and/or holiday travel will be charged per the current rate sheet.

^{*} This proposal is subject to the Bensh



CORPORATE OFFICE 615 ALPHA DRIVE PITTSBURGH, PA 15238 PHONE: 412.968.0100 FAX: 412 . 968 . 5415 www.benshaw.com

BENSHAW CANADA 550 BRIGHT ST. E. LISTOWEL, ONTARIO N4W 3W3 **CANADA**

> PHONE: 519.291.5112 FAX: 519 . 291 . 2595 www.benshaw.com

QUOTATION: 100200853 Rev.8/21/2017 10:58 AM

DATE

7/11/2017

PROJECT/APPLICATION

RSI519060SG4CBA12-ENG-00001

PO NUMBER

CUSTOMER

PO 36996 (Change Order 00001)

QUOTED BY

Brian Barrett

MODS

JOB NUMBER REF

PGH004201

SOUTHERN CONTRACTING COMPANY SHIP TO NAME

APPLE VALLEY WRP

BILL TO ADDRESS

559 NORTH TWIN OAKS VALLEY ROAD SHIP TO ADDRESS

21024 OTOE ROAD

APPLE VALLEY

SAN MARCOS

CA 92069 CA

US

92307 US

NAME

STEVE VICKERS

TERMS

Net 30

BUSINESS PHONE

(760) 744-0760

FREIGHT

PPB

MOBILE PHONE

(619) 520-6248

LABOR LV STANDARD

SHIP VIA

FEDEX 2 DAY AIR

FAX **EMAIL**

svickers@southerncontracting.com

FOB

Shipping Point

QUOTE VALID FOR 60 DAYS

PLEASE REFERENCE QUOTE NUMBER WITH YOUR ORDER

LINE

QTY ITEM **TYPE**

PRICE UOM

NET

3

8.0

Bill Only

\$106.00 HR

\$848.00

Subtotal

\$848.00

T&E Administration Fees

0

Total

\$848.00

Please note that this is an estimate. Benshaw, Inc. invoices per the current service rate sheet for actual services rendered. Weekend and/or holiday travel will be charged per the current rate sheet.

^{*} This proposal is subject to the Bensh

PCO # 91

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH - DC 123 Damper & Make Up Air UNit Controls & FM 200

Type:

RFC - Request for Change

Contract:

10943 - Hesperia

Contractor:

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - Hesperia Priority:

Submitted: 10/15/2017

Submitted To: EADOC-VVWRA-Sub-R - Alton

> Anderson, EADOC-VVWRA-Sub-R -Grant Gourley, EADOC-VVWRA-Sub

-R - Lynene Voelker

Status:

Pending High

Pending On User:

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Lynene Voelker

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

10/15/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 769,284.22 **Amount Added:** 35,360.21 **New Approved Amount:** 804,644.43 **Current Contract Duration:** Days Added:

New Contract Duration:

821

821

0

Budget:

Funding: Cost Item:

16-70

eadoc

PCO #91

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

DCM # 123.A DC 123 - Damper and Make Up Air Unit

Closed

Controls

DC 123R - Revision to Damper and Make DCM # 123.B

Closed

Up Air Unit Controls

DC 123 Damper & Make Up Air UNit Correspondence # 144

Closed

Controls & FM 200

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	timated Cost	%	P	djusted Cost
item	Description		Change	%		Change
1	Labor	\$	-		\$	-
2	Materials	\$	-		\$	-
3	Equipment	\$			\$	-
	Trimax	\$	8,121.18		\$	8,121.1
	Total	\$	8,121.18		\$	8,121.1
	Markup	\$	1,218.18	15%	\$	1,218.1
Subs	Subtotal	\$	9,339.36		\$	9,339.3
4	Southern Electrical	\$	16,158.03		\$	13,911.3
	AMS HVAC	\$ \$	4,523.00 -		\$	3,894.1 -
	Alert-One	\$	3,380.59		\$	2,910.5
	Subcontract Subtotal	\$	24,061.63		\$	20,715.9
	Subontractro Bond & Ins	\$	240.62	1%		
	Subtotal	\$	24,302.24		\$	20,715.9
	GC-Subcontractor Markup	\$	1,215.11	5%	\$	1,035.8
	Total	\$	34,856.71		\$	31,091.1
Í	Subcontractor OH&P			15%	\$	3,107.4
	Subcontractor Bond & Ins				\$	207.1
	GC Bond & Ins		348.57		\$	310.9
	Total	\$	35,205.28	СОН	\$	34,716.62



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

February 5, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-91 DC 123 Damper, FM 200 & Makeup Air Units Changes

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from DC 123 to modify the Damper, FM 200 and Makeup Air units. WML completed this work as directed and the cost to complete this work is \$35,360.21. The breakdown of this amount is attached. \$34,716.62

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

Subcontractors:	AMS HVAC AlertOne Fire Southern Contracting	\$ 9,046.00 \$ 6,761.18 \$ 32,316.05	Suppliers:	Trimax \$ 16,242.36 WML Markup \$ 3,248.47	\$ 16,242.36 \$ 3,248.47
Total Subs	Sub Total WML Markup	\$ 48,123.23 \$ 2,406.16 \$ 50,529.39	Total Supplier		\$ 19,490.83
	Bond Total	\$ 700.20 \$ 70,720.43			
	COH	\$ 35,360.21 \$ 35,360.21			



13619 Terrace Pl Whittier, CA 90601 (417) 731-2229

Change Order

Quote #: PCO-03 Date: 10/5/2017 Valid Until: N/A

Quoted By: Christopher Visocky
Phone: (760) 809-4151
Email: cvisocky@alertone.us

Project Name: Subregional Water Reclamation Plants Project - T-1139

Quoted To:	Scope of Work
WM Lyles PO Box 4377 Fresno, CA 93744	Added Equipment and material to monitor and shutdown added damper in room 1110 servicing room 1101. Apple Valley site

Qty	Model Number	Description		Price Ea	Ext Price
1	PAD 100-TRTI	PAD 100 Two Relay /Two Input	\$	196.79	\$ 196.79
1	0	Conduit, connectors, backboxes, mounting material	\$	514.29	\$ 514.29
24	Labor		\$	92.86	\$ 2,228.57
		Special Instructions		Subtotal:	\$ 2,939.64
			110	Tax:	
				Freight:	
			45	10%	\$ 293.96
			耿	5%	\$ 146.98
			6		
			133	Total Price:	\$ 3,380.59

Terms & Conditions

Accepted:	
Date:	



AMS AMERICA, INC., G.P.

B, C-10 & C-20 Nevada License No. 0074325 C21B

California License No. 894408

ANDERSON AIR CONDITIONING, L.P.

2100 E. Walnut Avenue, Fullerton, CA 92831 (714) 888-6800 FAX: (714) 888-2697

January 26, 2018

WM Lyles Co. PO Box 4377 Fresno, Ca. 93744 Attn: Grant Gourley

Change Order #5: work associated with DC-123 for both Hesperia & Apple Valley WRP Sites - (REVISED 1-26-18)

Scope of Work (for both Apple Valley and Hesperia WRP):

- Demo existing balancing dampers on OSA duct between walls and the Air Handling Unit Section (of 11-AC-01)
- Install new 24"x16" smoke damper and new 24"x16" balancing damper between walls and the Air Handling Unit Section (of 11-AC-01). The smoke dampers will be the same make/model/type that we have already submitted on for the rest of the project.
- For all units that have duct mounted smoke detectors, we need to remove all thermostat wiring within the controls conduit so the that the electrician can add a conduit from the smoke detectors to the controls conduit before it goes through the roof. After the electrician is completed, we will reinstall (or replace as needed) all controls wiring from the AC units to the thermostats and add wiring to interlock the AC unit to the smoke detector. (For units that serve Electrical Rooms, while the electricians are reworking the conduit, we will temporarily relocate the thermostats to the return duct and set the fan to run 24/7 so that the Electrical Rooms stay cool.)

Scope of Work (for the Operations Area at Hesperia WRP only):

- Since there is no alarm control for the smoke damper within this space, we will:
 - O Disconnect and safe off power at the nearest junction box for all smoke dampers.
 - Loosen up damper linkages and/or set screws for all smoke dampers, twist shafts to open position and tighten all linkages and/or set screws

Our Price for the scope above is: \$9,046.00

- Labor (Journeyman = \$4,665.00 / Apprentice = \$1,442.00) = \$6107.00
- Material (including tax & mark-up) = \$2,939.00

<u>Exclusions:</u> Any work not listed above including the Apple Valley WRP Operations Area as we do not know what the final controls strategy is for that space.

Thank you	Accepted By:	
Garret Patterson	Date:	

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00137

TITLE:

DC 123 Damper and Make Up Air Unit

DATE: 02/02/2018

PROJECT:

Victor Valley Subregional WRPq

JOB: 100531

TO:

Attn: Grant Gourley

CONTRACT NO:

1

W.M. Lyles

42142 Roick Drive Temecula, CA 92590

Phone: 951-973-7393

Fax: 951-698-3031

RE:

To:

From:

Number:

DESCRIPTION OF PROPOSAL

Design Change # 123 Damper and Make up Air Unit Controls

T&M Electrical work for DC 123

Item	Description	Stock #	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
3	DC 123 Damper and Make Up Air Unit Controls		1.000		\$32,316.05	0.00%	\$0.00	\$32,316.05
						Unit	Cost:	\$32,316.05

Unit Tax: \$0.00

Total: \$32,316.05

APPROVAL:			
By:		By:	
	Grant Gourley	_	Brendan Bradford
Date:		Date:	

Primavera ® 16-

Page 1 of 1

Southern Contracting Co. T&M Recapitulation Work Sheet

SCC Job No: 100531

Project Descr: Victor Valley WRP - DC 123

Customer: W.M. Lyles Co.

Page	Amount	Hours	Labor	Material	Equipment
1	\$6,876.40	42	\$3,825.01	\$2,180.41	\$802.90
2	\$4,039.10	28	\$2,550.01	\$471.79	\$977.31
3	\$6,950.60	42	\$3,837.97	\$1,260.87	\$1,782.95
4	\$11,251.81	66	\$6,017.21	\$2,808.93	\$2,314.27
5	\$2,967.51	23	\$2,169.17	\$237.66	\$531.30
6	\$230.62	0	\$0.00	\$2.28	\$0.00
Subtotals	\$32,316.05	201	\$18,399.37	\$6,961.94	\$6,408.73

Grand Total \$32,316.05



SCC JOB NO. 100531 Daily Work Report No. DESCRIPTION: DC 123 Damper and make up air unit controls 10/31/2017 11/1/2017 11/2/2017 11/3/2017 10/30/2017 LABOR Total Cost Totals Hours Classification Rate Hours Hours Hours Hours Hours Summary \$78.85 /hr 16 \$3,311,70 Foreman 16 Totals \$3,311.70 Subtotal 1 10.00% \$331.17 \$3,642.87 Subtotal 2 Profit Subtotal 3 \$182.14 \$3,825.01 5,00% Total EQUIPMENT Rate Hours Hours Hours Hours Hours Units Description \$680,00 \$20.00 /hr Service Truck (w/tools) 0.5 0,5 \$8,85 \$6,30 Threader Green Lee Bender \$2.95 /hr \$6.30 /hr \$695.15 Subtotal 4 10.00% OH Subtotal 5 \$69.52 \$764.67 5.00% \$38.23 \$802.90 Subtotal 6 MATERIALS, SERVICES, OTHER Description
1" GRC T Condilet
1" Threadless Connector Total Price Unit Qty Qty Qty Qty Qty Qty Taxable \$17.90 \$17.90 ea \$3.86 ea \$1.68 ea I" GRC T Condilet
1" Threadless Connector
1" GRC Conduit
1" GRC Conduit
1" GRC Elbow
1" GRC Couplings
7/8" HDG Strut
1 5/8" HDG Strut
3/8" SB Beam Clamp
1" Stut strap
1/4" X1" SS Bolt
3/8" X1/2" SS Bolt
0Z Gedney 90 Seal Filling
0Z Gedney 90 Seal Filling
1Z Gedney 5T Seal Filling
1" Seal Tight Flex
1/4" SS Anchors
1/4" Fender Washers \$3.86 \$117.60 \$25.26 \$14.16 20 \$1,68 ea \$8,42 ea \$2,36 ea \$3,68 ea \$4,60 ea \$15,50 ea \$36.80 \$46.00 \$15.50 \$23.76 10 10 10 \$15,50 ea \$2,64 ea \$0,30 ea \$0,70 ea \$42,87 ea \$2.10 \$0.70 \$42.87 \$42,87 ea \$66,42 ea \$2.51 ea \$1.15 ea \$0,26 ea \$0,26 ea \$132.84 \$15.06 \$8.05 \$1.56 \$1.56 \$10.92 \$3.32 \$84.56 \$32.46 \$15.27 \$10.68 \$9.08 1/4" Square Washers 1" Backs w/clamp 3/4" Backs w/clamp \$0.26 ea \$5.46 ea \$3.32 ea \$21.14 ea \$32.46 ea \$15.27 ea \$1.78 ea \$2.27 ea \$31.16 ea \$14.01 ea 2g Bell Box Copper Shield Jar Copper Shield Jar
No-Locks Jar
1/2" Seal Tight Flex
1/4" Spring Nuts
1" 99 Flex Conn
1" St Flex Conn
1" Ground Bushing
3/4" Flexible Metal Conduit
1/2"x38" Flex Conn
3/4" GRC
3/4" Sw Mini Strap \$31.16 \$14.01 \$13.01 \$14.01 ea \$13.01 ea \$1.07 ea 100 \$6.18 ea \$1.15 ea \$5.29 ea \$8.50 ea \$25.00 ea 10 10 3/4" SS Mini Strap 1/4" SS Beam Clamp \$25.00 \$1.92 \$16.40 1/2" SS Beam Clamp \$1.92 ea \$4.10 ea \$1.22 ea \$1.22 ea \$1.22 ea \$9,50 ea 1/2"x1" SS Bolt 2G Bell Box Covers \$195.20 \$195.20 \$195.20 \$9,50 160 160 160 160 160 #12 XHHW-2 BLK #12 XHHW-2 BWHITE #12 XHHW-2 Green 160 Box of Red Wire Nuts \$1,747.96 Subtotal 7 TAX Subtotal 8 8.00% \$139.84 \$1,887.80 10.00% OH Subtotal 9 \$188.78 \$2,076.58 5.00% Profit Subtotal 10 \$103.83 \$2,180.41 1.00% Bond TOTAL - Pg. 1 \$6,876.40

SOUTHERN

SEFT 1963

SEFT 1963

SCC JOB NO. 100531 Daily Work Report No. DESCRIPTION: DC 123 Damper and Make Up Air Unit Controls 11/7/2017 11/6/2017 11/8/2017 11/9/2017 LABOR Total Cost Totals Rate Hours Classification Hours Hours Hours Hours Hours Summary 0 \$78.85 /hr 6 Foreman 8 28 \$2,207.80 0 0 0 0 0 0 0 0 0 Totals 8 6 O 6 28 Subtotal 1 \$2,207.80 ОН 10.00% \$220.78 Subtotal 2 \$2,428,58 \$121.43 \$2,550.01 Profit 5.00% Subtotal 3 EQUIPMENT Description Rate Hours Hours Hours Hours Hours Units 0 0 0 Service Truck (Utility Bed) ST \$20.00 /hr 6 6 8 28 \$560.00 2.5 16 0.5 0.5 Threader \$2.95 /hr 0.5 \$7.38 Scissor Lift \$16.63 /hr 8 \$266.08 Hydraulic Bender \$12.79 /hr 0.5 0.5 \$6.40 Green Lee Bender \$6.30 /hr 1 \$6,30 0 ٥ 0 0 O 0 0 0 0 0 Subtotal 4 10,00% \$84.62 Subtotal 5 \$930.77 Profit 5,00% \$46.54 Subtotal 6 \$977.31 MATERIALS, SERVICES, OTHER Total Description Price Unit Qty Qty Qty Qty Qty Qty Taxable 1" GRC Conduit 1" GRC T Condilet \$1.68 ea 10 10 40 60 2 \$100.80 \$17.90 ea \$35.80 3/4" Seal Tight Flex \$1.33 ea \$3.99 3/4" Seal Tight ST Conn \$8.44 ea \$16.88 1" Threadless Conn \$3.86 ea \$7.72 3/8" Beam Clamp \$15.50 ea \$46.50 3/4" Mineral Lac Strap \$5.29 ea \$10.58 3/8"x1/2" Bolt \$0.70 ea \$2.10 Teck Screws \$0.10 ea \$0,20 3/4" GRC Conduit \$1.15 ea 10 \$11.50 \$2.12 10 1"x3/4" RE 3/4" LB Condilet \$2.12 ea 1 \$11.07 ea \$11.07 3/4"x1/2" RE \$1.98 ea \$1.98 1/2" Seal Tight ST Conn \$6.51 ea 5 \$32.55 1/2" Seal Tight Flex \$1.78 ea 10 13 \$23,14 1" Hub Space Saver \$3.20 ea \$3.20 1" Strut Strap \$2.64 ea 4 \$13.20 1/2" Seal Tight 90 \$9.42 ea \$28.26 1" Mineral Lac Strap \$9.95 ea \$9.95 1" LB Condilet \$16.67 ea \$16.67 Subtotal 7 \$378.21 TAX 8.00% \$30.26 Subtotal 8 \$408.47 10.00% \$40.85 \$449.32 OH Subtotal 9 \$22.47 **\$471.79** 5.00% Profit Subtotal 10 Bond 1.00% \$39.99 TOTAL - Pg. 2 \$4,039.10



DESCRIPTION: DC 123 Damp	er and make up air un	nit controls		Daily	Work Report	NO.					
ABOR			11/13/2017	11/14/2017	11/15/2017	11/16/2017	11/17/2017	Total		Cost	Totals
lassification	Rate		Hours	Hours	Hours	Hours	Hours	Hours 0		Summary	
eneral Foreman		\$84.46 /hr \$78.85 /hr	8	8	8	8	2 8	2 40		\$168.92 \$3,154.00	
reman		\$76.05 MI	°	-	0	0		0		\$3,154.00	
								0			
								0			
								0			
								0			
								0			
		Totals	8	8	8	8	10	0 42			
									Subtotal 1 OH	10.00%	\$3,322. \$332.
									Subtotal 2 Profit	5,00%	\$3,655.2
									Subtotal 3	5,00%	\$182.7 \$3,837.5
EQUIPMENT Description	Rate		Hours	Hours	Hours	Hours	Hours	Total Units			
	1,111							0			
		Ac					- 10	0		4015.55	
Service Truck (Utility Bed) Treader	ST ST	\$20.00 /hr \$2.95 /hr	0.5	8	8	8	10	42		\$840.00 \$13.28	
Scissor Lift Green Lee Bender	ST ST	\$16.63 /hr \$6.30 /hr	8	8	8	8	8	40		\$665,20 \$25,20	
		, e, e e e e	1					0			
								0			
								0			
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								0			
			-					0			
				-				0			
						-		0	Subtotal 4		
	- 1							0	Subtotal 4 OH Subtotal 5	10.00%	\$154.3
								0	OH Subtotal 5 Profit	10.00% 5.00%	\$1,543.6 \$154.3 \$1,698.0 \$84.9 \$1,782.9
MATERIALS, SERVICES, OTHER								Total	OH Subtotal 5 Profit Subtotal 6		\$154.3 \$1,698. 0
Description		Price Unit	Oty 1	Qty	Qty 3	Qty 2	Qty		OH Subtotal 5 Profit		\$154.3 \$1,698. 0 \$84.9
Description 2G Bell Box 1/2" Seal Tight Flex		\$21.14 ea \$1.78 ea	1 6	Qty	3			Total Qty 6 6	OH Subtotal 5 Profit Subtotal 6 Taxable Y	\$126.84 \$10.68	\$154.3 \$1,698. 0 \$84.9
Description 2G Bell Box 1/2" Seal Tight Flex 1"x1/2" RE 1"x3/4" RE		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea	1 6 10 10	Qty			Qty 2	Total Qty 6 6 15	OH Subtotal 5 Profit Subtotal 6 Taxable Y n Y	\$126.84 \$10.68 \$31.05 \$21.20	\$154.3 \$1,698. 0 \$84.9
Description 2G Bell Box 1/2" Seal Tight Flex "x1/2" RE		\$21.14 ea \$1.78 ea \$2.07 ea	1 6 10		3			Total Qty 6 6 15 10 1	OH Subtotal 6 Profit Subtotal 6 Taxable Y n Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34	\$154.3 \$1,698.0 \$84.9
Describlion (2G Bell Box 1/2" Seal Tight Flex "4/1/2" RE "4/3/4" RE " Ocal Union " Ocal Union " Ocal Condilet		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$53.76 ea \$56.34 ea \$4.46 ea	1 6 10 10	Qty 20 3	3			Total Qty 6 6 15 10 1 1 20	OH Subtotal 5 Profit Subtotal 6 Taxable Y n Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20	\$154.3 \$1,698.0 \$84.9
Description G Bell Box //2" Seal Tight Flex "x1/2" RE "x3/4" RE "Y3/4" RE " Ocal Union " Ocal T Condilet " Ocal Conduit		\$21.14 ea \$1.78 ea \$2.07 ea \$2.07 ea \$53.76 ea \$56.34 ea \$4.46 ea \$14.65 ea \$4.66 ea	1 6 10 10	20 3 6	3			Total Qty 6 6 15 10 1 20 3 6	OH Subtotal 5 Profit Subtotal 6 Taxable Y n Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$43.95 \$27.96	\$154.3 \$1,698.0 \$84.9
Description G Bell Box I/2" Seal Tight Flex "x1/2" RE "x3/4" RE " Coal Union " Coal T Condilet " Coal Conduit " Coal Coduit " Coal Couplings We Seam Clamps J/6" SS 316 All Thread		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$53.76 ea \$56.34 ea \$4.46 ea \$14.65 ea \$4.66 ea \$15.50 ea \$2.55 ea	1 6 10 10	20 3 6 3 3	3 3			Total Qty 6 6 6 15 10 1 1 20 3 6 4 4 5	OH Subtotal 5 Profit Subtotal 6 Taxable Y n Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$43.95 \$27.96 \$82.00	\$154.3 \$1,698.0 \$84.9
Describlion (G Bell Box 1/2" Seal Tight Flex "4/12" RE "4/14" RE "Ocal Union " Ocal Conditet " Ocal Elbow " Ocal Elbow " Ocal Confling " San State 1/8" SS Nick S		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$53.76 ea \$56.34 ea \$4.46 ea \$14.65 ea \$15.50 ea \$2.55 ea \$0.18 ea	1 6 10 10	20 3 6 3	3 3			Total Qty 6 6 15 10 1 1 20 3 6 4	OH Subtotal 6 Profit Subtotal 6 Taxable Y n n Y Y Y Y Y Y	\$126.84 \$10.88 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$43.95 \$27.96	\$154.3 \$1,698.0 \$84.9
Describlion (2 G Bell Box 1/2" Seal Tight Flex "4.1/2" RE "4.3/4" RE " Ocal Union " Ocal Condult " Ocal Condult " Ocal Elbow " Ocal Elbow " Ocal Couplings 1/6" SS Beam Clamps 1/6" SS St All Thread 1/8" SS Fender Washers		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$53.76 ea \$55.34 ea \$4.46 ea \$14.65 ea \$4.66 ea \$15.50 ea \$0.18 ea \$0.33 ea	1 6 10 10	20 3 6 3 3 6 2 2	3 3			Total Qty 6 6 15 10 1 1 20 3 6 4 5 9 2 2 2	OH Subtotal 5 Profit Subtotal 6 Taxable Y n Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$43.95 \$27.96 \$62.00 \$12.75 \$1.62 \$0.66	\$154.3 \$1,698. 0 \$84.9
Description G Bell Box I/2" Seal Tight Flex "A1/2" RE "A1/2" RE "A2/4" RE " Ocal Union " Ocal T Condilet " Ocal Elbow " Ocal Conduit " Ocal Elbow " Ocal Couplings I/8" SS Beam Clamps I/8" SS Sat Nuts I/8" SS Suts I/8" SS Square Washers 5/8" Unistrut SS 5/8" Unistrut SS 5/8" Unistrut SS 5/8" Osal Tight ST		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$53.76 ea \$55.76 ea \$4.46 ea \$14.65 ea \$4.66 ea \$1.55 ea \$0.18 ea \$0.33 ea \$0.33 ea \$9.50 ea	1 6 10 10	20 3 6 3 3 6 2 2 10	3 3			Total Qty 6 6 15 10 1 1 20 3 6 4 5 9 2 2 2 10 1 1	OH Subtotal 5 Profit Subtotal 6 Taxable Y n Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$27.96 \$82.00 \$12.75 \$1.62 \$0.66 \$95.00	\$154.3 \$1,698.0 \$84.9
Jescription G Bell Box J2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Tondilet " Ocal Conduit " Ocal Elbow " Ocal Elbow " Ocal Elbow " Ocal Couplings J8" SS Beam Clamps J8" SS Beam Clamps J8" SS Fender Washers J8" SS Fender Washers J8" SS Fender Washers J8" SS Fordar Washers J8" SS Fordar Washers J8" SS Jaca Seal Tight ST J2" Ocal Seal Tight ST		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$53.76 ea \$55.76 ea \$4.46 ea \$4.66 ea \$4.65 ea \$4.65 ea \$0.18 ea \$0.18 ea \$0.33 ea \$0.33 ea \$9.50 ea \$31.74 ea \$31.76 ea	1 6 10 10	20 3 6 3 3 6 2 2	3 3 1 2 3	2	2	Total Qty 6 6 6 15 10 1 1 20 3 6 4 5 9 9 2 2 10 1 1 1 3 3	OH Subtotal 5 Profit Subtotal 6 Taxable Y N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$12.75 \$1.62 \$6.86 \$0.66 \$95.00 \$31.74 \$37.06	\$154.3 \$1,698.0 \$84.9
Description (G Bell Box (J2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Conduit " Ocal Conduit " Ocal Elbow " Ocal Couplings (J6" SS Beam Clamps (J6" SS Beam Clamps (J6" SS Side All Thread (J6" SS Fender Washers (J6" SS Fender Washers (J6" SS Funder Washers (J6" SS Funder Washers (J6" SS Funder Washers (J6" SS Guare		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.12 ea \$53.76 ea \$55.37 e ea \$55.36 ea \$4.46 ea \$11.55 ea \$4.66 ea \$1.55 ea \$0.18 ea \$0.33 ea \$9.50 ea \$1.78 ea \$1.78 ea \$1.78 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	3 3			Total Qty 6 6 6 15 10 1 1 20 3 6 4 5 9 2 2 10 1 1 3 3 70	OH Subtotal 6 Profit Subtotal 6 Taxable Y N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$66.34 \$89.20 \$43.95 \$27.96 \$62.00 \$12.75 \$1.62 \$0.66 \$95.00 \$31.74	\$154.3 \$1,698. 0 \$84.9
Description (G Bell Box (J2" Seal Tight Flex "X1/2" RE "X3/4" RE " Ocal Union " Ocal T Condilet " Ocal Conduit " Ocal Elbow " Ocal Couplings (J6" SS Beam Clamps (J6" SS 16 All Thread (J68" SS Nuts (J6" SS Square Washers (J6" SS Square Washers (J6" SS Equare Washers (J6" SS Equare Washers (J6" SS Inth (J		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$53.76 ea \$55.76 ea \$56.34 ea \$4.46 ea \$14.65 ea \$4.66 ea \$1.55 ea \$0.18 ea \$0.33 ea \$0.33 ea \$31.74 ea \$31.76 ea \$1.68 ea \$1.68 ea \$1.68 ea \$1.68 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	3 3 3 1 2 3 20 1 1	2	30	Total Qty 6 6 6 6 15 10 1 1 20 3 6 4 5 9 2 2 10 1 1 1 3 3 70 2 2	OH Subtotal 5 Profit Subtotal 6 Taxable Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$27.96 \$62.00 \$12.75 \$1.62 \$0.66 \$95.00 \$31.74 \$37.06 \$5.34	\$154.3 \$1,698.0 \$84.9
Description (G Bell Box (J2" Seal Tight Flex "X1/2" RE "X3/4" RE " Ocal Union " Ocal T Condilet " Ocal Conduit " Ocal Elbow " Ocal Elbow " Ocal Elbow " Ocal Elbow " Ocal Seam Clamps (J6" SS 16 All Thread (J6" SS 16 All Thread (J6" SS Square Washers (J6" SS Square Washers (J6" SS Square Washers (J6" SS Square Washers (J6" SS Interest (J6" SS Int		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.12 ea \$53.76 ea \$55.76 ea \$4.46 ea \$4.46 ea \$4.46 ea \$4.65 ea \$4.65 ea \$4.50 ea \$2.55 ea \$0.18 ea \$0.33 ea \$0.33 ea \$1.74 ea \$37.06 ea \$1.78 ea \$1.60 ea \$1.78 ea \$1.60 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	3 3 1 2 3 20 1 1 1 1 1 2	20	30	Total Qty 6 6 6 15 10 1 1 20 3 6 4 5 9 2 2 10 1 1 3 70 2 3 2 3 2	OH Subtotal 5 Profit Subtotal 6 Taxable Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$55.76 \$65.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$0.66 \$31.74 \$31.74 \$31.76 \$1.75 \$1.89 \$1.75 \$1.89 \$1.80	\$154.3 \$1,698.0 \$84.9
Description (G Bell Box (J2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Conduit " Ocal Conduit " Ocal Conduit " Ocal Couplings (J8" SS Beam Clamps (J8" SS Beam Clamps (J8" SS Beam Clamps (J8" SS Suare Washers (J8" SS Fender Washers (J8" SS Fender Washers (J8" SS Fender Washers (J8" SS Fender Washers (J8" SS Suare Washers (J8" SS Suare Washers (J8" SS Sauare Washers (J8" SS Gast Tight ST (J2" Ocal Seal Tight Flex " GRC Conduit " Ground Bushing " Gibson mini SS " Lock Nuts " SS Stutt Straps (J4" SS A) " SS Anchors		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.12 ea \$53.76 ea \$55.37 ea \$4.46 ea \$11.55 ea \$4.66 ea \$11.55 ea \$4.66 ea \$15.50 ea \$4.66 ea \$15.50 ea \$1.78 ea \$37.06 ea \$1.78 ea \$1.78 ea \$1.78 ea \$1.80 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	3 3 1 2 3 3	20	30	Total Qty 6 6 6 15 10 1 1 20 3 6 4 4 5 9 2 2 10 1 1 3 70 70 2 2 3 3 2 2 5 4 4	OH Subtotal 6 Profit Subtotal 6 Taxable Y n n Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$31.05 \$521.20 \$55.76 \$66.34 \$89.20 \$43.95 \$27.96 \$62.00 \$12.75 \$1.62 \$0.66 \$95.00 \$31.74 \$37.06 \$5.34 \$117.90 \$1.95	\$154.3 \$1,698.0 \$84.9
Description (G Bell Box 1/2" Seal Tight Flex "x1/2" RE "x3/4" RE " Ocal Union " Ocal T Condilet " Ocal Conduit " Ocal Couplings 1/8" SS Beam Clamps 1/8" SS Beam Clamps 1/8" SS Side All Thread 1/8" SS Side Side Side Side Side Side 1/8" SS Side Side Side Side Side Side Side S		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.12 ea \$53.76 ea \$55.76 ea \$4.46 ea \$4.46 ea \$11.65 ea \$4.66 ea \$15.50 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.31 ea \$1.74 ea \$37.06 ea \$1.68 ea \$1.69 ea \$1.55 ea \$1.15 ea \$1.50 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3	20	30 1 2	Total Qty 6 6 6 6 15 10 1 1 20 3 3 6 4 5 9 2 2 10 1 1 1 3 3 70 2 2 3 3 2 5 5 4 2 2	OH Subtotal 5 Profit Subtotal 6 Taxable Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$65.34 \$89.20 \$27.96 \$62.00 \$12.75 \$1.62 \$0.66 \$5.66 \$55.34 \$1.75 \$1.62 \$1.75 \$1.62	\$154.3 \$1,698.0 \$84.9
Pescription G Bell Box /2" Seal Tight Flex "A1/2" RE "A3/4" RE "Ocal Union "Ocal T Condilet "Ocal Conduit "Ocal Conduit "Ocal Couplings /6" SS Beam Clamps /6" SS Beam Clamps /6" SS Side All Thread /6" SS Nets /6" SS Fender Washers /6" SS Square Washers /6" SS Square Washers /6" SS Pout Square Washers /6" SS Pout Square Washers /6" SS Hout Square Washers /6" SS SS Square Washers "SS Strutt Straps "Ground Bushing "Gibson mini SS "SS Strutt Straps "A" X3 3/4" SS Anchors "Galv. Backs wiciamps "GRC Elbow /4" SS Washers /4" X1" SS Eolts		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.17 ea \$53.76 ea \$55.76 ea \$55.34 ea \$4.46 ea \$4.46 ea \$4.46 ea \$4.66 ea \$14.65 ea \$4.66 ea \$1.55.00 ea \$2.55 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.31.74 ea \$37.06 ea \$1.78 ea \$1.79 ea \$1.79 ea \$1.50 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1	30 1 2	Total Qty 6 6 6 15 10 1 1 20 3 6 4 5 9 2 2 10 1 1 3 70 2 2 3 2 5 4 4 1 1 10	OH Subtotal 5 Profit Subtotal 6 Taxable Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$55.76 \$65.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$0.66 \$0.66 \$1.77 \$1.62 \$1.77 \$1.62 \$1.62 \$1.62 \$1.62 \$1.62 \$1.63 \$1.63 \$1.64 \$1.64 \$1.65 \$1	\$154.3 \$1,698.0 \$84.9
Pescription (G Bell Box /2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Conduit " Ocal Conduit " Ocal Elbow " Ocal Couplings //8" SS Beam Clamps //8" SS Beam Clamps //8" SS Side All Thread //8" SS Nuts //8" SS Square Washers //8" SS Square Washers //8" SS Square Washers //8" SS Square Washers //8" Ocal Seal Tight Flex " Coal Seal Tight Flex " GRO Cond Bushing " Ground Bushing " Ground Bushing " Ground Bushing " Ground System " Ground		\$21.14 ea \$1.79 ea \$2.07 ea \$2.27 ea \$2.12 ea \$53.76 ea \$553.76 ea \$556.34 ea \$4.66 ea \$4.66 ea \$14.65 ea \$4.66 ea \$1.55 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$1.66 ea \$1.78 ea \$1.60 ea \$1.78 ea \$1.60 ea \$1.78 ea \$1.60 ea \$1.79 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	3 3 1 2 3 3 20 1 1 1 1 2 4 3 1 4	20 1	30 1 2	Total Qty 6 6 15 10 1 1 1 20 3 6 6 4 4 5 9 2 2 110 1 1 1 3 3 70 2 2 2 3 3 2 2 5 4 4 2 2 10 10 10 10 10 2 2	OH Subtotal 6 Profit Subtotal 6 Taxable Y n n Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$0.66 \$0.66 \$12.75 \$1.62 \$1.74 \$1.62 \$1	\$154.3 \$1,698.0 \$84.9
Pescription (G Bell Box /2" Seal Tight Flex "x1/2" RE "x3/4" RE " Ocal Union " Ocal Condilet " Ocal Couplings /8" SS Beam Clamps /8" SS Shall Thread /8" SS Shall Thread /8" SS Suare Washers 5/8" Unistrut SS /2" Ocal Seal Tight ST /2" Ocal Seal Tight Flex " GRC Condult " Ground Bushing " Ground Bushing " Gibson min SS " Lock Nuts " SS Suare Washers /4" X3 3/4" SS Anchors " GRC Cabow /4" SS Washers /4" X1" SS Boits /4" X8 Spring Nuts " Threadless Conn " GRC Cup		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.12 ea \$53.76 ea \$55.76 ea \$4.46 ea \$14.65 ea \$4.66 ea \$15.50 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$37.06 ea \$1.56 ea \$1.56 ea \$1.56 ea \$1.56 ea \$2.27 ea \$1.15 ea \$1.27 ea \$1.27 ea \$1.38 ea \$1.39 ea \$1.30 ea \$2.35 ea \$1.30 ea \$2.35 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 2	Total Qty 6 6 6 6 15 10 1 1 20 3 3 6 4 5 9 2 2 10 1 1 1 3 3 70 2 2 3 3 2 5 4 4 2 2 10 10 10 10 2 1	OH Subtotal 5 Profit Subtotal 6 Taxable Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$27.96 \$62.00 \$12.75 \$1.62 \$0.66 \$95.00 \$31.74 \$37.06 \$5.34 \$117.60 \$5.34 \$117.60 \$5.34 \$117.60 \$5.34 \$1.89 \$5.64 \$1.89 \$1.80 \$1.8	\$154.3 \$1,698. 4 \$84.5
Description (G Bell Box (J2" Seal Tight Flex "X1/2" RE "X3/4" RE "Ocal Union "Ocal T Condilet "Ocal Conduit "Ocal Elbow "Ocal Couplings (J8" SS Beam Clamps (J8" SS 16 All Thread (J8" SS 16 All Thread (J8" SS Side Seam Clamps (J8" SS Side Seam Clamps (J8" SS Suare Washers (J8" SS Suare Washers (J8" SS Fender Washers (J8" SS Jaure Washers (J8" SS ST Spare Standard (J8" SS Washers (J8" SS SS SS SA Anchors "GRIV, Backs w/clamps "GRIV, Backs w/clamps "GRIV, Backs w/clamps "GRIV Ba		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.17 ea \$5.376 ea \$5.376 ea \$4.46 ea \$4.46 ea \$4.46 ea \$4.46 ea \$4.66 ea \$4.50 ea \$4.50 ea \$2.55 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.70 ea \$1.70 ea \$1.60 ea \$1.60 ea \$1.60 ea \$1.60 ea \$1.60 ea \$1.60 ea \$2.27 ea \$0.10 ea \$2.27 ea \$0.10 ea \$2.27 ea \$0.10 ea \$2.27 ea \$0.28 ea \$0.28 ea \$0.28 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1	2 30 1 1 1 1 1 1 1 2 2	Total Qty 6 6 6 15 10 1 1 20 3 6 4 5 9 2 2 10 1 1 3 70 2 2 5 4 2 10 10 10 10 2 2 11 2 2	OH Subtotal 5 Profit Subtotal 6 Taxable Y n n Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$0.66 \$0.66 \$1.77 \$1.62 \$1.77 \$1.62 \$1.62 \$1.62 \$1.62 \$1.62 \$1.63 \$1.	\$154.3 \$1,698.0 \$84.9
Pescription G Bell Box /2" Seal Tight Flex "x1/2" RE "x3/4" RE " Ocal Tondilet " Ocal Conduit " Ocal Conduit " Ocal Elbow " Ocal Couplings //8" SS Beam Clamps //8" SS Beam Clamps //8" SS Syare Washers //8" Ground Bushing " Ground Bushing "		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.27 ea \$2.12 ea \$53.76 ea \$553.76 ea \$55.376 ea \$4.66 ea \$4.66 ea \$14.65 ea \$4.66 ea \$1.55 ca \$2.55 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$1.66 ea \$1.78 ea \$1.60 ea \$1.78 ea \$1.60 ea \$2.27 ea \$2.27 ea \$2.27 ea \$2.27 ea \$2.28 ea \$2.28 ea \$2.28 ea \$3.30	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 1 1 1 1 1	Total Qty 6 6 6 15 10 1 1 20 3 6 6 4 5 9 2 2 10 1 1 3 3 70 2 2 3 3 2 5 5 4 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10	OH Subtotal 6 Profit Subtotal 6 Profit Subtotal 6 Taxable Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$0.66 \$0.66 \$1.74 \$1.74 \$1.75 \$1.89 \$2.10 \$1.89 \$1.80 \$1.	\$154.3 \$1,698.0 \$84.9
Pescription G Bell Box /2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Condilet " Ocal Couplings /8" SS Beam Clamps /8" SS Shal Tight SI /8" SS Sal Hithread /8" SS Suare Washers /8" SS Suare Washers /8" SS Suare Washers /8" Ocal Seal Tight ST /2" Ocal Seal Tight Flex " GRC Condult " Ground Bushing " Ground Bushing " Gibson min SS " Lock Nuts " SS Suare Washers /4" X3 3/4" SS Anchors " Galv. Backs wickamps " Ground Bushing " Gr		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.17 ea \$5.376 ea \$5.376 ea \$5.36 ea \$4.46 ea \$14.65 ea \$4.66 ea \$1.65 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$37.06 ea \$1.56 ea \$1.56 ea \$1.56 ea \$1.56 ea \$2.57 ea \$2.57 ea \$3.76 ea \$5.36 ea \$5.36 ea \$0.20 ea \$5.276 ea \$5.26 ea \$0.20 ea \$5.276 ea \$5.276 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty 6 6 6 15 10 1 1 20 3 3 6 4 5 9 2 2 2 10 1 1 1 3 3 70 2 2 3 3 2 5 4 4 2 2 10 10 10 2 1 1 2 2 2 1 1 1 3 3 3	OH Subtotal 5 Profit Subtotal 6 Profit Subtotal 6 Taxable Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$5.06 \$5.06 \$1.75 \$1.62 \$1.89 \$1.80 \$1.89 \$1.80 \$1.	\$154.3 \$1,698. 4 \$84.5
Description (G Bell Box 1/2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Condilet " Ocal Couplings 1/8" SS Seam Clamps 1/8" SS Seam Clamps 1/8" SS Seam Clamps 1/8" SS Seat Il Thread 1/8" SS Susts 1/8" SS Seat Tight ST 1/2" Ocal Seal Tight ST 1/2" Ocal Seal Tight Flex " Ground Bushing " Ground Bushing " Ground Bushing " Ground Bushing " Glison mini SS " Lock Nuts " SS Susts 1/4" X3 3/4" SS Anchors " Galk Backs wickamps " GRC Celbow 1/4" SS Syning Nuts " Threadless Conn " GRC Coup 1/4" Suarre Washers 1/4" SS Spring Nuts " Threadless Conn " GRC Coup 1/4" Suarre Washers 1/4" Suarre Washers 1/4" Seal Tight ST Conn " GRC Cup 1/4" Suarre Washers 1/4" Seal Tight Flex " Seal Tight Flex " Seal Tight Flex		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.27 ea \$2.12 ea \$53.76 ea \$553.76 ea \$55.376 ea \$4.66 ea \$4.66 ea \$14.65 ea \$4.66 ea \$1.55 ca \$2.55 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$1.66 ea \$1.78 ea \$1.60 ea \$1.78 ea \$1.60 ea \$2.27 ea \$2.27 ea \$2.27 ea \$2.27 ea \$2.28 ea \$2.28 ea \$2.28 ea \$3.30	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 1 1 1 1 1	Total Qty 6 6 6 15 10 1 1 20 3 6 6 4 5 9 2 2 10 1 1 3 3 70 2 2 3 3 2 5 5 4 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10	OH Subtotal 5 Profit Subtotal 6 Profit Y n n Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$0.66 \$0.66 \$1.74 \$1.74 \$1.75 \$1.89 \$2.10 \$1.89 \$1.80 \$1.	\$154.3 \$1,698.1 \$1,762.1
Pescription G Bell Box /2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Condilet " Ocal Couplings /8" SS Beam Clamps /8" SS Shal Tight SI /8" SS Sal Hithread /8" SS Suare Washers /8" SS Suare Washers /8" SS Suare Washers /8" Ocal Seal Tight ST /2" Ocal Seal Tight Flex " GRC Condult " Ground Bushing " Ground Bushing " Gibson min SS " Lock Nuts " SS Suare Washers /4" X3 3/4" SS Anchors " Galv. Backs wickamps " Ground Bushing " Gr		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.17 ea \$5.376 ea \$5.376 ea \$5.36 ea \$4.46 ea \$14.65 ea \$4.66 ea \$1.65 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$37.06 ea \$1.56 ea \$1.56 ea \$1.56 ea \$1.56 ea \$2.57 ea \$2.57 ea \$3.76 ea \$5.36 ea \$5.36 ea \$0.20 ea \$5.276 ea \$5.26 ea \$0.20 ea \$5.276 ea \$5.276 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty 6 6 6 15 10 1 1 20 3 6 4 4 5 9 2 2 10 1 1 3 3 70 2 2 2 5 5 4 4 2 2 10 10 10 10 2 1 1 2 2 2 1 1 3 3 2 2	OH Subtotal 5 Profit Subtotal 6 Profit Subtotal 6 Taxable Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$0.66 \$5.06 \$5.06 \$1.75 \$1.62 \$1.89 \$1.80 \$1.89 \$1.80 \$1.	\$154.3 \$1,698.4 \$1,762.4 \$1,762.4
Pescription G Bell Box /2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Condilet " Ocal Couplings /8" SS Beam Clamps /8" SS Shal Tight SI /8" SS Sal Hithread /8" SS Suare Washers /8" SS Suare Washers /8" SS Suare Washers /8" Ocal Seal Tight ST /2" Ocal Seal Tight Flex " GRC Condult " Ground Bushing " Ground Bushing " Gibson min SS " Lock Nuts " SS Suare Washers /4" X3 3/4" SS Anchors " Galv. Backs wickamps " Ground Bushing " Gr		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.17 ea \$5.376 ea \$5.376 ea \$5.36 ea \$4.46 ea \$14.65 ea \$4.66 ea \$1.65 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$37.06 ea \$1.56 ea \$1.56 ea \$1.56 ea \$1.56 ea \$2.57 ea \$2.57 ea \$3.76 ea \$5.36 ea \$5.36 ea \$0.20 ea \$5.276 ea \$5.26 ea \$0.20 ea \$5.276 ea \$5.276 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Qty 6 6 6 15 10 1 1 20 3 6 4 4 5 9 2 2 10 1 1 3 3 70 2 2 2 5 5 4 4 2 2 10 10 10 10 2 1 1 2 2 2 1 1 3 3 2 2	OH Subtotal 5 Profit Subtotal 6 Profit Taxable Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$95.00 \$12.75 \$1.62 \$0.66 \$95.00 \$17.75 \$1.62 \$1.89 \$2.189	\$154.3 \$1,698.1 \$1,762.1 \$1,762.1 \$1,011.1 \$80.1
Description (G Bell Box (J2" Seal Tight Flex "X1/2" RE "X3/4" RE "Ocal Union " Ocal T Condilet " Ocal Conduit " Ocal Elbow " Ocal Couplings (J8" SS Beam Clamps (J8" SS Beam Clamps (J8" SS Si All Thread (J8" SS Si Fender Washers (J8" SS Strut Straps		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.17 ea \$5.376 ea \$5.376 ea \$5.36 ea \$4.46 ea \$14.65 ea \$4.66 ea \$1.65 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$37.06 ea \$1.56 ea \$1.56 ea \$1.56 ea \$1.56 ea \$2.57 ea \$2.57 ea \$3.76 ea \$5.36 ea \$5.36 ea \$0.20 ea \$5.276 ea \$5.26 ea \$0.20 ea \$5.276 ea \$5.276 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	Total Qty 6 6 6 15 10 1 1 20 3 6 4 4 5 9 2 2 10 1 1 3 3 70 2 2 2 5 5 4 4 2 2 10 10 10 10 2 1 1 2 2 2 1 1 3 3 2 2	OH Subtotal 5 Profit Subtotal 6 Profit Subtotal 6 Taxable Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$53.76 \$56.34 \$89.20 \$27.96 \$1.275 \$1.62 \$0.66 \$0.66 \$0.66 \$0.66 \$12.75 \$1.62 \$17.75 \$1.62 \$1.75 \$1.75	\$1,698.6 \$1,698.6 \$1,762.6 \$1,762.6 \$1,011.6 \$1,01.6 \$1,091.6 \$1,091.6 \$1,203.6
Pescription G Bell Box /2" Seal Tight Flex "A1/2" RE "A3/4" RE " Ocal Union " Ocal Condilet " Ocal Couplings /8" SS Beam Clamps /8" SS Shal Tight SI /8" SS Sal Hithread /8" SS Suare Washers /8" SS Suare Washers /8" SS Suare Washers /8" Ocal Seal Tight ST /2" Ocal Seal Tight Flex " GRC Condult " Ground Bushing " Ground Bushing " Gibson min SS " Lock Nuts " SS Suare Washers /4" X3 3/4" SS Anchors " Galv. Backs wickamps " Ground Bushing " Gr		\$21.14 ea \$1.78 ea \$2.07 ea \$2.12 ea \$2.17 ea \$5.376 ea \$5.376 ea \$5.36 ea \$4.46 ea \$14.65 ea \$4.66 ea \$1.65 ea \$0.18 ea \$0.33 ea \$0.33 ea \$0.33 ea \$0.33 ea \$1.74 ea \$37.06 ea \$1.56 ea \$1.56 ea \$1.56 ea \$1.56 ea \$2.57 ea \$2.57 ea \$3.76 ea \$5.36 ea \$5.36 ea \$0.20 ea \$5.276 ea \$5.26 ea \$0.20 ea \$5.276 ea \$5.276 ea	1 6 10 10	20 3 6 3 3 6 2 2 10 1	20 1 1 2 3 2 1 1 1 1 2 4 3 1 4	20 1 6 6 6 6 1	2 30 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	Total Qty 6 6 6 15 10 1 1 20 3 6 4 4 5 9 2 2 10 1 1 3 3 70 2 2 2 5 5 4 4 2 2 10 10 10 10 2 1 1 2 2 2 1 1 3 3 2 2	OH Subtotal 5 Profit Subtotal 6 Profit Subtotal 6 Taxable Y n Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$126.84 \$10.68 \$31.05 \$21.20 \$55.76 \$56.34 \$89.20 \$12.75 \$1.62 \$0.66 \$95.00 \$12.75 \$1.62 \$0.66 \$95.00 \$17.75 \$1.62 \$1.89 \$2.189	\$154.3 \$1,698.4 \$1,762.4 \$1,762.4 \$1,011.4 \$80.4 \$1,091.4 \$10.91.4



DESCRIPTION: DC 123 Damper	and make up air u	nit controls		Dai	y Work Repo	t No.					
1			11/20/2017	11/21/2017	11/22/2017	11/27/2017	11/28/2017				
LABOR Classification	Rate		Hours	Hours	Hours	Hours	Hours	Total Hours		Cost	Total
	- Tuis	664 10 "	1,0015	, louid	110015		110013	0	1	Summary	
General Foreman Foreman		\$84.46 /hr \$78.85 /hr	8	13	12	16	16	1 65		\$84.46 \$5,125.25	
								0		ψ0,120.20	
					1	H=== 7		0			
	1				1			0			
							1000	0			
								0			
								0			
								0			
		Totals	8	13	12	17	16	66			
									Subtotal 1 OH	10.00%	\$5,209 \$520
									Subtotal 2	10.00%	\$5,730
									Profit Subtotal 3	5.00%	\$286
EQUIPMENT				100	D	T 0		Total	Subtolat 3		\$6,017
Description	Rate		Hours	Hours	Hours	Hours	Hours	Units			
					1			0			
Service Truck (Utility Bed	ST	\$20,00 /hr	8	13	12	17	16	66		\$1,320,00	
Threader	ST	\$2.95 /hr	0,5	1	0.5		10	2		\$5.90	
Bender Scissor Lift	ST	\$6.30 /hr \$16.63 /hr	0.5 8	1 8	0.5 8	8	8	40		\$12.60 \$665.20	
								0		ψ000.20	
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			7					0			
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			-					0			
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			1					0			
			-			_		0	Subtotal 4		£2 000
									OH	10.00%	\$2,003. \$200.
									Subtotal 5 Profit	5.00%	\$2,204.0 \$110.3
MATERIALS, SERVICES, OTHER									Subtotal 6	0.0070	\$2,314.
Description		Price Unit	Qty	Qty	Qty	Qty	Qty	Total Qty	Taxable		
		\$1.68 ea	10		20			30	Y	\$50.40	
" GRC Conduit				_				1	Y		
" GRC Conduit /2" SS Beam Clamp		\$25.00 ea	1						V	\$25.00	
" GRC Conduit /2" SS Beam Clamp /2"x1" SS Boit /8" SS Beam Clamp		\$25.00 ea \$1,92 ea \$15.50 ea	1 1				1	2	Y	\$1,92 \$31,00	
" GRC Conduit '2" SS Beam Clamp /2"x1" SS Bot /8" SS Bot /8" SS Boam Clamp /8"x1" SS Boit		\$25.00 ea \$1,92 ea \$15.50 ea \$0.70 ea	1 1 1		12			2 13	Y	\$1,92 \$31,00 \$9,10	
" GRC Conduit /2" SS Beam Clamp /2" SS Both /8" SS Beam Clamp /8" SS Beam Clamp /8" SS Bott "SS Givson Mineral Iac /8" SS Nuts		\$25.00 ea \$1,92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea	1 1 1 3 6		12		1	2 13 4 6	Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39.80 \$1.08	
" GRC Conduit 2" SS Beam Clamp 2"x1" SS Bolt 4" SS Beam Clamp 48"x1" SS Bott " SS Givson Mineral Iac 4" SS Nuts 4" SS Parrel Nuts		\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea	1 1 1 3 6		12		1	2 13 4 6 2	Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39,80 \$1.08 \$0.50	
" GRC Conduit 12" SS Beam Clamp 12" X1" SS Boit 18" SS Beam Clamp 18" X1" SS Boit " SS Beam Clamp 18" X1" SS Boit " SS Givson Mineral lac 18" SS Nuts 18" SS Nuts 18" SS Nuts 18" SS All Thread 18" X3 All Thread		\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea	1 1 1 3 6 2 2 2		12			2 13 4 6 2 5	Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39.80 \$1.08	
" GRC Conduit 12" SS Beam Clamp 12"'x1" SS Bolt 18" \$\$ Beam Clamp 18" \$\$ Beam Clamp 18" \$\$ Givson Mineral Iac 18" \$\$ S Nuts 18" \$\$ Barrel Nuts 18" \$\$ All Thread 18" \$\$ All Thread 18" \$\$ Anchors G Bell Box		\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$0.18 ea \$0.25 ea \$2.55 ea \$2.14 ea	1 1 1 3 6 2 2 2 2	1 1	12	2	1	2 13 4 6 2 5 2	Y Y Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39,80 \$1,08 \$0,50 \$12,75 \$7,70 \$84,56	
" GRC Conduit 2" SS Beam Clamp 2"x1" SS Bolt 8" SS Beam Clamp 8" SS Beam Clamp 8"x1" SS Bolt " SS Givson Mineral lac 8" SS Nuts 8" SS Nuts 8" SS All Thread 8" SS All Thread 8" SS SAll Thread 5" SS All Thread 5" SS All Thread 5" SS All Thread		\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$2.14 ea \$9.42 ea \$1.78 ea	1 1 1 3 6 2 2 2	1 1 3	12	2	1	2 13 4 6 2 5	Y Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39,80 \$1,08 \$0,50 \$12,75 \$7,70 \$84,56 \$28,26 \$32,04	
" GRC Conduit 12" SS Beam Clamp 12"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.79 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20	12		3	2 13 4 6 2 5 2 4 3 18 20	Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$89.20	
" GRC Conduit 2" SS Beam Clamp 2"x1" SS Beam Clamp 2"x1" SS Beam Clamp 2"x1" SS Beam Clamp 2"x1" SS Beam Clamp 2"x3" SS Beam Clamp 2"x3" SS Buts 2" SS Barel Nuts 2" SS Barel Nuts 2" SS Barel Nuts 2" SS All Thread 2"x3 3/4" SS Anchors 2" Seal Tight 90 Conn 2" Seal Tight Flex " Ocal Conduit		\$25.00 ea \$1.92 ea \$1.550 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4	12	9	3	2 13 4 6 2 5 2 4 3 18 20 1	Y Y Y Y Y Y Y Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39,80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$29,26 \$32,04 \$89,20 \$56,34 \$4.60	
" GRC Conduit 2" SS Beam Clamp 2"x1" SS Boit 8" SS Beam Clamp 8"x1" SS Boit " SS Givson Mineral lac 8" SS Muts 8" SS Barel Nuts 8" SS Barel Nuts 8" SS All Thread 8" SS All Thread 8" SS All Thread 8" SS All Thread 2" Seal Tight 90 Conn 2" Seal Tight Flex " Ocal Conduit " Ocal T Conduit 4"x3 3/4" SS Anchors 2" Seal Tight ST Conn		\$25.00 ea \$1,92 ea \$15.50 ea \$0,70 ea \$0,95 ea \$0,18 ea \$0,25 ea \$2,55 ea \$3,86 ea \$21,14 ea \$9,42 ea \$1,78 ea \$4,46 ea \$56,34 ea \$1,15 ea \$6,55 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4	12		3	2 13 4 6 2 5 2 4 3 18 20 1 4 7	Y Y Y Y Y Y Y Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39,80 \$1,08 \$0,50 \$12,76 \$7,70 \$94,66 \$29,26 \$32,04 \$89,20 \$56,34 \$45,57	
"GRC Conduit 22" SS Beam Clamp 22"x1" SS Beam Clamp 28"x1" SS Beam Clamp 28"x1" SS Beam Clamp 28"x1" SS Beam Clamp 28" SS Barel Nuts 28" SS Barel Nuts 28" SS Barel Nuts 28" SS All Thread 26"x3 3/4" SS All Thread 27" Seal Tight 90 Conn 22" Seal Tight 90 Conn 22" Seal Tight Flex "Ocal Conduit "Ocal T Condulet 4"x3 3/4" SS Anchors 2" Seal Tight ST Conn "Ocal Back w/clamp 12 XH-INV-2 BLK		\$25.00 ea \$1.92 ea \$1.55 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea \$6.51 ea \$16.34 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70	50	9 4 200	3 3 2 80	2 13 4 6 2 5 2 4 3 18 20 1	Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$89.20 \$4.50	
" GRC Conduit 22" SS Beam Clamp /2"x1" SS Boit /8" SS Beam Clamp /8"x1" SS Boit " SS Givson Mineral lac /8" SS Nuts /8" SS Nuts /8" SS Nuts /8" SS All Thread /8" X3 All Threa		\$25.00 ea \$1,92 ea \$15.50 ea \$0,70 ea \$0,95 ea \$0,18 ea \$0,25 ea \$2,55 ea \$3,85 ea \$1,14 ea \$1,78 ea \$1,78 ea \$4,46 ea \$56,34 ea \$1,15 ea \$6,51 ea \$16,34 ea \$1,22 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50	9 4 200 200	3 3 2 80 80	2 13 4 6 2 5 2 4 3 18 20 1 4 7 2 400	Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$29.26 \$32.04 \$89.20 \$45.57 \$32.88 \$4.80 \$4.	
"GRC Conduit 22" SS Beam Clamp 28"x1" SS Boit 88" SS Beam Clamp 88"x1" SS Boit "SS Glyson Mineral lac 88" SS Nuts 88" SS All Thread 88" X3 All Thread 88" X3 All Thread 68" X3 All Thread 72" Seal Tight 90 Conn 22" Seal Tight Flex "Ocal Conduit "Ocal Tocnduit "Ocal Tocnduit "Ocal Seal Tight ST Conn "Ocal Back widamp		\$25.00 ea \$1.92 ea \$1.550 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.51 ea \$1.22 ea \$1.22 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70	50	9 4 200 200 200	3 3 2 80 80 80	2 13 4 6 2 5 2 4 3 18 20 1 4 7 2 4 400 400	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39,80 \$1,08 \$0,50 \$12,75 \$7,70 \$84,55 \$28,26 \$32,04 \$89,20 \$46,57 \$32,68 \$48,00 \$488,00 \$488,00	
"GRC Conduit 22" SS Beam Clamp 28"x1" SS Boit 88" SS Beam Clamp 28"x1" SS Boit "SS Givson Mineral lac 88" SS Nuts 88" SS All Thread 88" SS All Thread 88" SS All Thread 68" X3 34" SS Anchors G Bell Box 22" Seal Tight 90 Conn 22" Seal Tight Flex "Ocal Conduit "Ocal Toonduit "Ocal Toonduit "Ocal Box W/clamp 12 XH-HW-2 BLK 12 XH-HW-2 BLK 12 XH-HW-2 GREEN 3 Box Cover 568" HDG Strut		\$25.00 ea \$11.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$2.114 ea \$1.78 ea \$1.78 ea \$4.46 ea \$6.51 ea \$1.15 ea \$6.51 ea \$1.22 ea \$1.22 ea \$1.22 ea \$4.10 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 50 1	9 4 200 200	3 3 2 80 80	2 13 4 6 2 5 5 2 4 3 18 20 1 4 7 7 2 400 400 400 13 10	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$4.50 \$28.26 \$32.04 \$89.20 \$4.80	
"GRC Conduit 22" SS Beam Clamp 28"x1" SS Beam Clamp 28" SS Nuts 28" SS Nuts 29" SS All Thread 38" SS All Thread 38"x3 34" SS Anchors Coal T Conduit 10 cal T Conduit 11 x1" SS Anchors 12" Seal Tight Plex 10 cal Conduit 10 cal T Conduit 12" Seal Tight ST Conn 13 SS Anchors 21" SEA TIGHT 21 XH-HW-2 GREEN 31 Bell Box Cover 5/8" HDG Strut 3" SS String Nuts 15 SS Strite ST SS STRIPS		\$25.00 ea \$1.92 ea \$1.550 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$2.114 ea \$1.78 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.51 ea \$1.22 ea \$1.22 ea \$1.22 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50	9 4 200 200 200	3 3 2 80 80 80	2 13 4 6 2 5 5 2 4 3 3 18 20 1 4 7 7 2 400 400 400 13 10 12	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1,92 \$31,00 \$9,10 \$39,80 \$1,08 \$0,50 \$12,75 \$7,70 \$84,56 \$22,26 \$32,04 \$89,20 \$55,34 \$4,60 \$488,00 \$4	
"GRC Conduit 22" SS Beam Clamp 22"x1" SS Beam Clamp 28"x1" SS Barel Nuts 28" SS All Thread 28"x3 34" SS Anchors 29 Seal Tight 90 Conn 22" Seal Tight 90 Conn 22" Seal Tight Flex "Ocal T Conduit "Ocal T Conduit "Ocal T Conduit 22" Seal Tight ST Conn "Ocal Back wiclamp 12 XH-HW-2 WH-HTE 12 XH-HW-2 GREEN 3 Bell Box Cover 58" HDG Strut 8" SS Spring Nuts SS Strut Straps GRC T Conduidt		\$25.00 ea \$1.92 ea \$1.92 ea \$1.92 ea \$1.92 ea \$1.550 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$2.55 ea \$3.86 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.51 ea \$1.72 ea \$1.22 ea \$4.40 ea \$2.40 ea \$2.40 ea \$3.32 ea \$1.20 ea \$3.32 ea \$1.90 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2	9 4 200 200 200	3 3 2 80 80 80	2 13 4 6 2 5 5 2 4 3 18 20 1 4 7 7 2 400 400 400 13 10 12 4	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$89.20 \$45.37 \$4.80 \$4.8	
"GRC Conduit 22" SS Beam Clamp 72"x1" SS Boit 78" SS Beam Clamp 78"x1" SS Boit "SS Givson Mineral lac 78" SS Nuts 78" SS Nuts 78" SS Nuts 78" SS All Thread 78" X3 All Thread 72" Seal Tight 90 Conn 72" Seal Tight Flex 70 Cal Conduit 70 Cal T Conduit 70 Cal T Conduit 70 Cal Back w/clamp 12 XH-HW-2 BLK 12 XH-HW-2 W-HTE 12 XH-HW-2 GREEN 3 Bell Box Cover 578" NS Spring Nuts SS Strus Straps GRC T Conduits 74 "HDG Strut 8" SS Spring Nuts SS Strus Straps GRC T Conduits 74 "HDG Strut 74 "HDG Strut 75 "SS STRUS STRUS 75 "SS CONTERS 75 "SS STRUS STRUS 75 "SS CONTERS 76 "CONTERS 77 "ST CONTERS 77 "S		\$25.00 ea \$1.92 ea \$1.550 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$6.51 ea \$1.634 ea \$1.22 ea \$1.22 ea \$1.22 ea \$4.40 ea \$4.40 ea \$4.40 ea \$4.40 ea \$4.73 ea \$1.73 ea \$1.73 ea \$1.73 ea \$1.74 ea \$1.75 ea \$2.75 ea \$2.75 ea \$2.75 ea \$3.75 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 50 1 10 12 4	9 4 200 200 200	3 3 2 80 80 80	2 13 4 6 2 5 5 2 4 3 18 20 1 1 4 7 7 2 400 400 13 10 10 11 2 4 4 4 7 10 10 10 10 10 10 10 10 10 10 10 10 10	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.60 \$1.08 \$0.50 \$12.75 \$7.70 \$84.65 \$29.26 \$32.04 \$46.00 \$45.57 \$32.88 \$4.60 \$48.00 \$48.00 \$48.00 \$53.30 \$48.00 \$53.30 \$45.57 \$53.30 \$46.00 \$53.30 \$	
"GRC Conduit 22" SS Beam Clamp 12" X1" SS Beam Clamp 18" SS Beam Clamp 18" SS Beam Clamp 18" SS Beam Clamp 18" SS Barel Nuts 18" SS All Thread 18" SS All Thread 18" SS All Thread 18" SS All Thread 18" SS Anchors 19" SS Barel Nuts 10" SS Beam SS Anchors 10" SS Beam SS Anchors 10" SS SA Nuts 10" SA		\$25.00 ea \$1.92 ea \$15.50 ea \$0,70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.51 ea \$1.22 ea \$1.22 ea \$4.40 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$2.24 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$2.24 ea \$1.22 ea \$1.22 ea \$2.24 ea \$1.22 ea \$1.22 ea \$2.24 ea \$1.22 ea \$2.24 ea \$2.24 ea \$1.22 ea \$3.25 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2 2 4 12	9 4 200 200 200	3 3 2 80 80 80	2 13 4 6 2 5 5 2 4 3 3 1 18 20 1 4 7 7 2 400 400 400 13 10 12 4 2 4 4 12 4 4 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.65 \$22.26 \$32.04 \$4.60 \$4.60 \$4.60 \$4.80	
"GRC Conduit 22" SS Beam Clamp 28"x1" SS Boit 8" SS Beam Clamp 28"x1" SS Boit "SS Givson Mineral lac 8" SS Shuts 8" SS Nats 8" SS All Thread 6"x3 34" SS Anchors G Bell Box 2" Seal Tight 90 Conn 2" Seal Tight Plox "Ocal Conduit "Ocal T Condulet 4"x3 34" SS Anchors 12 XH-IW-2 BLK 12 XH-IW-2 BLK 12 XH-IW-2 BLK 12 XH-IW-2 BCR 3" SS Spring Nuts "SS Struct Straps "GRC T Condulet 4" SS Spring Nuts "SS Struct Straps "GRC T Condulet "HDG Struct "SS Struct Straps "GRC T Condulet "HDG Struct "SS Struct Straps "GRC T Condulet "HDG Struct "HDG Struct "SS Struct Straps "GRC T Condulet "HDG Struct "SS Struct Straps "GRC T Condulet "HDG Struct "HDG Struct "SS Struct Straps "GRC T Condulet "HDG Struct "HDG Struct "SS Struct Straps "GRC T Condulet "HDG Struct "HDG Struct "SS Frender Washers "SS Fender Washers		\$25.00 ea \$1,92 ea \$1,550 ea \$0,70 ea \$9,95 ea \$0,18 ea \$0,25 ea \$2,55 ea \$3,86 ea \$2,114 ea \$1,78 ea \$1,78 ea \$4,46 ea \$56,34 ea \$1,15 ea \$6,51 ea \$1,22 ea \$1,22 ea \$1,22 ea \$1,22 ea \$4,40 ea \$3,32 ea \$1,79 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 10 12 4 2 4 12	9 4 200 200 200 5	3 3 2 80 80 80	2 13 4 6 2 5 5 2 2 4 3 18 20 1 4 7 7 2 4 400 400 400 13 10 12 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.65 \$22.26 \$32.04 \$89.20 \$55.34 \$4.60 \$48.50 \$48.50 \$48.50 \$48.50 \$55.34 \$4.60 \$48.50 \$48.50 \$48.50 \$48.50 \$55.34 \$4.50 \$45.51 \$45	
"GRC Conduit 22" SS Beam Clamp 72"x1" SS Boit 78" SS Beam Clamp 78"x1" SS Boit "SS Givson Mineral lac 78" SS Nuts 78" SS Nuts 78" SS Nuts 78" SS All Thread 78" SS All Thread 78" SS All Thread 78" SS All Thread 79" SS All Thread 70" SS All Thread 70" SS Anchors 70" Seal Tight 90 Conn 70" Seal Tight Flex 70" Coal T Condulet 70" SS Anchors 70" SS SITUS SITUS 70" SS Anchors 70" SS SITUS SITUS 70" SS Boit SITUS 70" SS SITUS SITUS 70" SITUS		\$25.00 ea \$1.22 ea \$1.55 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$1.78 ea \$1.78 ea \$1.78 ea \$1.178 ea \$1.178 ea \$1.122 ea \$1.22 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2 2 4 12	9 4 200 200 200 5 5	3 3 3 2 80 80 80 7	2 13 4 6 2 5 2 4 3 18 20 1 4 4 7 7 2 4 400 400 400 400 13 10 11 2 4 4 4 4 4 4 1 2 1 1 1 1 1 1 1 1 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.65 \$22.26 \$32.04 \$4.60 \$4.60 \$4.60 \$4.80	
"GRC Conduit "2" SS Beam Clamp /2" X1" SS Boit /8" SS Beam Clamp /8" X1" SS Boit "SS Glyson Mineral lac /8" SS Nuts /8" SS Nuts /8" SS All Thread /8" X3 All "SS Anchors G Bell Box (2" Seal Tight 90 Conn 2" Seal Tight 90 Conn 2" Seal Tight Flex "Ocal Conduit "Ocal T Condulet 4" X3 3/4" SS Anchors 2" Seal Tight ST Conn Ocal Back w/clamp 12 XI-HW-2 BLK 12 XI-HW-2 BLK 12 XI-HW-2 GREEN 3 Bell Box Cover 58" HDG Strut 8" SS Spring Nuts SS String Nuts SS String Strut 8" SS Spring Nuts SS String Strut 8" SS Spring Nuts SS String Strut 8" SS Fender Washers 4" X1" SS Boit 4" X1" SS Boit 4" X1" SS Boit 4" X1" SS Boit Seal Tight Flex		\$25.00 ea \$1.92 ea \$1.92 ea \$1.550 ea \$0.70 ea \$0.70 ea \$0.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.51 ea \$1.12 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.23 ea \$1.23 ea \$1.25 ea \$2.00 ea \$2.00 ea \$2.51 ba \$1.43 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2 2 4 12	9 200 200 200 5	1 3 3 2 80 80 80 7	2 13 4 6 2 5 5 2 4 3 3 18 20 1 1 4 7 7 2 400 400 13 10 11 2 4 4 10 11 12 4 4 4 10 11 11 12 4 4 4 4 4 10 10 10 10 10 10 10 10 10 10 10 10 10	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$22.26 \$32.04 \$89.20 \$32.04 \$89.20 \$45.57 \$4.60 \$48.00 \$48.00 \$48.00 \$48.00 \$48.00 \$13.28 \$32.80 \$32.80 \$48.00 \$	
"GRC Conduit "Z" SS Beam Clamp 12" X1" SS Beam Clamp 18" X1" SS Boit 18" SS Barel Nuts 18" SS Barel Nuts 18" SS Barel Nuts 18" SS All Thread 18" X3 34" SS Anchors G Bell Box 2" Seal Tight 90 Conn 2" Seal Tight Flex " Ocal T Conduit " Ocal T Conduit 4" X3 314" SS Anchors 2" Seal Tight ST Conn " Ocal Back wiclamp 12 X1-HW-2 BLK 12 X1-HW-2 UN-HTE 12 X1-HW-2 GREEN 3 Bell Box Cover 518" HDG Strut 2" SS Spring Nuts SS Strut Straps GRC T Conduiet 4" HDG Squre Washers 4" X1" SS Boil 4" SS Fender Washers 4" SS Fender Washers 4" SS Fender Washers 4" Seal Tight Flex Seal Tight St Conn 2" X1" RE		\$25.00 ea \$1.22 ea \$1.55 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$1.78 ea \$1.78 ea \$1.78 ea \$1.178 ea \$1.178 ea \$1.122 ea \$1.22 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2 2 4 12	9 4 200 200 200 5 5	3 3 3 2 80 80 80 7	2 13 4 6 6 2 5 5 2 4 4 3 1 8 20 1 1 4 7 7 2 400 400 400 13 10 12 4 4 4 12 4 4 4 10 11 12 4 4 4 4 4 10 10 10 10 10 10 10 10 10 10 10 10 10	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.65 \$22.26 \$32.04 \$45.67 \$45.67 \$46.00 \$48.00 \$48.00 \$48.00 \$48.00 \$13.28 \$31.28	
"GRC Conduit 22" SS Beam Clamp 28"x1" SS Boit 88" SS Beam Clamp 28"x1" SS Boit "SS Givson Mineral lac 88" SS Nuts 88" SS All Thread 88" SS All Thread 88" SS All Thread 88" SS All Thread 72" Seal Tight 90 Conn 72" Seal Tight 90 Conn 72" Seal Tight Flex 70 Coal Conduit 70 Coal Tonduit 70 Call Tonduit 71 Seal Tight ST Conn 70 Call Back w/clamp 12 XI-HW-2 BLK 12 XI-HW-2 BLK 12 XI-HW-2 GREEN 3 BI Box Cover 568" HDG Strut 8" SS String Nuts 8" SS String Nuts 8" SS String Strass GRC T Conduiet 4" HDG Squre Washers 6" SS Fronduites 6" SS Fronduites 6" SS Fronduites 6" SS Strass 6" SS Fronduites 6" SS Fronduites 6" SS Fronduites 6" SS Fronduites 6" SS Strass 6" SS Fronduites		\$25.00 ea \$1,92 ea \$1,550 ea \$0,70 ea \$9,95 ea \$0,18 ea \$0,18 ea \$0,25 ea \$2,55 ea \$3,85 ea \$21,14 ea \$9,42 ea \$1,78 ea \$4,46 ea \$56,34 ea \$1,15 ea \$6,51 ea \$16,34 ea \$1,12 ea \$1,12 ea \$1,12 ea \$1,12 ea \$1,22 ea \$1,22 ea \$1,22 ea \$1,22 ea \$2,24 ea \$1,22 ea \$2,24 ea \$3,25 ea \$1,22 ea \$3,25 ea \$1,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$2,24 ea \$3,22 ea \$4,10 ea \$3,22 ea \$4,10 ea \$3,22 ea \$4,10 ea \$3,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$1,22 ea \$1,22 ea \$2,12 ea \$3,22 ea \$3,23 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2 2 4 12	9 4 200 200 200 5 5	3 3 3 80 80 80 7	2 13 4 6 2 5 2 4 3 18 20 1 4 7 7 2 400 400 400 13 10 12 4 2 4 4 2 4 4 12 4 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$44.56 \$28.26 \$32.04 \$89.20 \$45.57 \$4.50 \$4.8	
"GRC Conduit "Z" SS Beam Clamp 12" X1" SS Beam Clamp 18" X1" SS Boit 18" SS Barel Nuts 18" SS Barel Nuts 18" SS Barel Nuts 18" SS All Thread 18" X3 34" SS Anchors G Bell Box 2" Seal Tight 90 Conn 2" Seal Tight Flex " Ocal T Conduit " Ocal T Conduit 4" X3 314" SS Anchors 2" Seal Tight ST Conn " Ocal Back wiclamp 12 X1-HW-2 BLK 12 X1-HW-2 UN-HTE 12 X1-HW-2 GREEN 3 Bell Box Cover 518" HDG Strut 2" SS Spring Nuts SS Strut Straps GRC T Conduiet 4" HDG Squre Washers 4" X1" SS Boil 4" SS Fender Washers 4" SS Fender Washers 4" SS Fender Washers 4" Seal Tight Flex Seal Tight St Conn 2" X1" RE		\$25.00 ea \$1,92 ea \$1,550 ea \$0,70 ea \$9,95 ea \$0,18 ea \$0,18 ea \$0,25 ea \$2,55 ea \$3,85 ea \$21,14 ea \$9,42 ea \$1,78 ea \$4,46 ea \$56,34 ea \$1,15 ea \$6,51 ea \$16,34 ea \$1,12 ea \$1,12 ea \$1,12 ea \$1,12 ea \$1,22 ea \$1,22 ea \$1,22 ea \$1,22 ea \$2,24 ea \$1,22 ea \$2,24 ea \$3,25 ea \$1,22 ea \$3,25 ea \$1,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$2,24 ea \$3,22 ea \$4,10 ea \$3,22 ea \$4,10 ea \$3,22 ea \$4,10 ea \$3,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$1,22 ea \$4,10 ea \$1,22 ea \$1,22 ea \$2,12 ea \$3,22 ea \$3,23 ea	1 1 1 3 6 2 2 2 2 2 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2 2 4 12	9 4 200 200 200 5 5	3 3 3 80 80 80 7	2 13 4 6 6 2 5 5 2 4 4 3 1 8 20 1 1 4 7 7 2 400 400 400 13 10 12 4 4 4 12 4 4 4 10 11 12 4 4 4 4 4 10 10 10 10 10 10 10 10 10 10 10 10 10	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$1.92 \$31.00 \$9.10 \$39.60 \$1.08 \$0.50 \$12.75 \$7.70 \$84.66 \$29.26 \$32.04 \$45.57 \$32.88 \$4.60 \$45.57 \$32.88 \$48.00 \$48.00 \$48.00 \$53.30 \$48.00 \$53.30 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$32.88 \$45.57 \$35.50 \$45.57 \$32.88 \$45.57 \$35.50 \$45.57 \$35.50 \$45.57 \$35.50 \$45.57 \$35.50 \$45.57 \$35.50 \$45.50 \$	\$2,251.8.
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SCC JOB NO. Daily Work Report No. DESCRIPTION: 123 Damper and make up air unit controls 12/5/2017 12/6/2017 12/7/2017 LABOR Classification Total Cost Totals Hours Rate Hours Hours Hours Hours Hours Summary 0 11,5 \$84.46 /hr \$971,29 General Foreman 4.5 11.5 \$906.78 \$78.85 /hr 4 Foreman 0 0 ٥ 0 0 0 0 0 23 0 0 Totals 4 10 Subtotal 1 \$1,878.07 \$187.81 \$2,065.88 10,00% Subtotal 2 \$103.29 **\$2,169.17** Profit Subtotal 3 5.00% EQUIPMENT Total Hours Description Rate Hours Hours Hours Hours Units 0 0 \$460.00 \$20.00 /hr 10 Service Truck (Utility Bed) 23 0 n 0 \$460.00 Subtotal 4 \$46.00 \$506.00 10.00% Subtotal 5 5.00% Profit Subtotal 6 \$25.30 **\$531.30** Total MATERIALS, SERVICES, OTHER Qty Qty 56 Price Unit Qty Qty 40 Qty 10 Qty Taxable Description \$2.00 ea \$12.92 ea \$112.00 Wire Lables Eaton D3PA2 Base Eaton Relay D3PF2AA \$25.84 \$49.80 \$2.88 \$24.90 ea 24 12 12 #14 MTW Wire \$0.12 ea 0 0 0 0 0 0 0 0 0 0 Subtotal 7 \$190.52 8.00% \$15,24 **\$205.76** Subtotal 8 10.00% \$20,58 **\$226.34** Subtotal 9 \$11.32 \$237.66 5,00% Subtotal 10 Bond \$29.38 TOTAL - Pg. 5 \$2,967.51

SCC JOB NO.

100531

DESCRIPTION:	DC 123 Damper and	make up air u	nit controls		Dai	ly Work Repo	rt No.		1			
				1/25/2018	1/29/2017				1			
LABOR				1/25/2018	1/29/2017				Total	1	Cost	Totals
Classification	Local	Rate		Hours	Hours	Hours	Hours	Hours	Hours		Summary	
Foreman		-	\$78,85 /hr	1	1				0		£457.70	
ereman			ψ10,00 Mil						2		\$157.70	
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		4	Totals	1	1	0	0	0	2			
										Subtotal 1		\$157.
										OH Subtotal 2	10,00%	\$15. \$173.
										Profit	5.00%	\$8.6
EQUIPMENT									-	Subtotal 3		\$182.1
Description		Rate		Hours	Hours	Hours	Hours	Hours	Total Units			
2-1, 1,211				1 mula	T ASSAULT	1100(3	Tours	Hours	- O			
									0	- 9		
Service Truck (Utility Be	edi	ST	\$20,00 /hr	1	1				2		\$40.00	
The state of the s			740,00 //4						0		940.00	
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									1	OH Subtotal 5	10.00%	\$4.00 \$44.00
									t	Profit	5.00%	\$2,20
ATERIALS, SERVICE	C OTHER			-			-		Total	Subtotal 6		\$46.20
Description	io, OTHER	1	Price Unit	Qty	Qty	Qty	Qty	Qty	Total Qty	Taxable		
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									0 0 0 0 0 0 0	Y Y Y Y Y Y Y Subtotal 7 TAX Subtotal 8 OH Subtotal 9 Profit	10.00%	\$0.00 \$0.00 \$0.00 \$0.00



COR – Change Order Request - Trimax Systems COR No. 50

Southern Contracting Company To:

Date:

December 14, 2017

559 N. Twin Oaks Valley Rd.

Job No.:

P-2192

San Marcos, CA 92069

VVWRA Project:

Attention: Steve Vickers

Sub-regional Water Reclamation Plants

Date Required: December 15, 2017

From: Marty McLaughlin

Supporting Docs: DC123

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,242.36	Complete as of 12-8-2017	N/A

Subject:

Interlocking Fans with the FACP and providing alarming features.

Each facility requires (Hesperia and Apple Valley):

- Adding (3) Digital Inputs from the fire alarm control panel FACP for trouble, alarm and supervisory.
- Adding (1) Digital Output for fan interlocks.
- Adding (1) 4 pole relay for hardwired fan shutdown interlocks
- Modifying PLC programs, HIMI Programs and SCADA programs to add the new features associated with the new digital inputs from the FACP only and the new digital output for the new added relay.
- Drawing Updates include new loop drawing, modifications to the fan panels to show the added FACP alarm, modifications to the main PLC panel drawings to show the added I/O, modifications to the panel layout drawings to show the added relay.
- Updating testing documents.
- Field installation of the 4 pole relay.
- Point to Point testing.
- Loop testing.
- Operation verification.

This proposal is based on all new I/O is to be wired to existing spare I/O. Existing drawings shall be modified to show these changes.



	Apple Valley						
Taxable							
Materials	1						
Relay - 4 pole for fan interlocks (10) wires	1 1	\$	114.60	\$	114.60		
Material Cost	1			\$	114.60		
Material Profit	1		15%	\$	17.19		
Sub Total	l			\$	114.60 17.19 131.79		
Sales Taxes			7.75%	\$	10.21		
Sub Total				Ş	142.00		
Labor	Hours	Ra	te				
Engineering	38.5	\$	160.00	\$	6,160.00		
Technician	13.5	\$	110.00	\$	1,485.00		
Truck							
Mileage to/from Sites to/from Brea	539	\$	0.62	\$	334.18		
Total Non-Taxable					7,979.18		
12/14/2017				\$	8,121.18		

	_	Hespen	18	
1	\$	114.60	\$	114.60
		15%		114.60 17.19
		7.75%	\$ \$ \$	131.79 10.21
			\$	142.00
Hours				0.400.00
36.0	3	160.00	3	6,160.00
13.5	\$	110.00	\$	1,485.00
13.5 539		110.00	\$	1,485.00 334.18
		110.00	\$ \$	1,485.00

Please issue a change order for \$16,242.36

PCO # 92

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH - Modifications to Process Drain Pump Station Level Indicating Transmitter

Type:

RFC - Request for Change

Contract: Contractor: 10943 - Hesperia W M Lyles Co

ISO Currency Code:

Purchase Order:

USD

Contract # 10943 - Hesperia

Submitted: 11/26/2017

Submitted To: EADOC-VVWRA-Sub-R - Alton

> Anderson, EADOC-VVWRA-Sub-R -Charles Reynolds, EADOC-VVWRA -Sub-R - Grant Gourley, EADOC

-VVWRA-Sub-R - Juan

Castillo, EADOC-VVWRA-Sub-R -

Lynene Voelker

Status: Pending **Priority:** High Internal Priority: High

Pending On User: EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -Lynene Voelker, EADOC-VVWRA

-Sub-R - Juan Castillo

Pending On Org: Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers, W M Lyles Co

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

11/26/2017

Contractor's PCO #:

Reason:

Unforeseen / Changed Site Conditions

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 769.284.22 **Amount Added:** 12,017.00 **New Approved Amount:** 781,301.22 **Current Contract Duration:** 821 Days Added: 0 **New Contract Duration:** 821

16-87

eadoc

PCO # 92

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05 - 19 - Process Drains Pump Station

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RFI # 441 Ultrasonic Level Sensor for the Process Closed Drain PS

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Es	timated Cost	%		Adjusted Cost
item	Description		Change	%		Change
1	Labor	\$	554.68		\$	554.68
2	Materials	\$	-		\$	-
3	Equipment	\$	107.80	1	\$	107.80
	Trimax	\$	8,305.69		\$	8,305.69
	Total	\$	8,968.17		\$	8,968.17
	Markup	\$	1,345.23	15%	\$	1,345.23
ubs	Subtotal	\$	10,313.40		\$	10,313.40
4	Southern Electrical	\$	1,507.42		\$	1,299.50
	Tirmax	\$	-		\$	
		\$	-		\$	
		\$	-		\$	
	Subcontract Subtotal	\$	1,507.42		\$	1,299.50
					٠	1,233.30
	Subontractro Bond & Ins	\$	15.07	1%		
	Subtotal	\$	1,522.49		\$	1,299.50
	GC-Subcontractor Markup	\$	76.12	5%	\$	64.98
	Total	\$	11,912.01		\$	11,677.87
	Subcontractor OH&P			15%	\$	194.93
	Subcontractor Bond & Ins			1%	\$	13.00
	GC Bond & Ins	\$	119.12	1%	\$	116.78
	Total	\$	12,031.13		\$	12,002.57



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

February 8, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-92 Ultrasonic Level Sensor for the Process Drain PS

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the level sensors in the Process Drain PS. WML deems this change to be additional work and the cost for this change is \$12,017.00. The breakdown of this amount is attached. \$12,002.57

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

Corporate Office: 1250 W. Olive, Fresno, CA 93728 Telephone: (559) 441-1900 • Fax (559) 487-7958

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

Date: 8-Feb-18

Reference #

Alton Anderson Attention:

WWRA Subregional Plants Project Project:

Description:

COH 92 Process Drain Pump Station Level Transmitter Mods

		Unit	MH MH	1 Cost	Unit I ofal MH MH Cost Total MH Cost Eq. Cost Material	Eq. Cost	Ž,	aterial	Subcont.		Total Cost	ost
	COH 92 Process Drain Pump Station Level Transmitte LS	rs	80		\$ 554.68 \$	\$ 107.	80	107.80 \$ 8.305.69 \$ 1.509.50	69	09.50		10 477 67
											J	2, 11, 12
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							1					
				1			1					
				Ī								
				1			1					
Fotal Costs			œ		\$ 554 68	407	80	554 68 \$ 107 80 \$ 8 305 60 \$ 4 500 50 \$	4	000	6	10 117 07

Subtotal		69	10,477.67
Mark-up - Labor	15%	₩	83.20
Mark-up - Equipment	15%	₩	16.17
Mark-up - Materials	15%	↔	1,245.85
Mark-up - Subconfractor	2%	69	75.48
Bond	1%	₩	118.98
Total This Change Order		u	12 047 00

Comments:

VVWRA Subregional Plants Project

COH 92 Process Drain Pump Station Level Transmitter Mods

2/8/2018

	Description			Op FM	Op	Lab FM	Lab	Carp	CM			
stall Stilling	Well							8				
											_	
								N		is		
										6		
										-		
				0	0	0	0	8	0		0	0
		Dete		Union		Extension						
<u>Name</u> op FM		Rate \$84.63		Hours 0	,	\$0,00						
)p		\$81.99		ō		\$0.00						
ab FM		\$67.55		0		\$0.00						
ab		\$65,23		0	+	\$0.00						
Carp		\$69.33		8		\$554.68						
M		\$67.98		0		\$0.00						
	0	\$0.00		0		\$0.00						
	0	\$0.00		0		\$0.00						
	0	\$0.00		0		\$0.00						
	0	\$0.00		0		\$0.00						
	0	\$0,00		8		\$0.00						
. Faulas				101	tal Labor =	\$554.68						
3. Equipm	Description			15.205	18.284	15.184	18.254	35.066	18.278	31.012	30.045	30.628
Salo e				4								
ickup				-					-			
												5
					1,000			100000		V		
							0	0		0	0	0
				4	0 1	0	O	0	0	1 0 1	u	
lumber	<u>Description</u>			Rate	Hours	Extension						
5.205	Truck			Rate \$26.95	4	\$107.80						
8.284	Yard Truck			\$26.95		\$0.00						
5.184	Truck			\$26.95		\$0.00						
8.254	Truck			\$26.95		\$0.00						
5.066	Loader			\$142.00		\$0.00						
8.278	Truck			\$26.95		\$0.00						
	John Deere Backhoe			\$58.53		\$0.00						
0.045				\$39,56		\$0.00						
30.045 30.628	CAT Rental Backhoe			600.00		ተለ ላለ						
30.045	Skidsteer			\$30.00	0	\$0.00						
30.045 30.628				\$30.00 Total Equipme		\$0.00 \$107.80						
0.045 0.628 11.012	Skidsteer			Total Equipme		\$107,80						
0.045 0.628 11.012	Skidsteer	Quantity	<u>Unit</u>			\$107.80 <u>Extension</u>						
0.045 0.628 11.012	Skidsteer			Total Equipme	ent =	\$107.80 Extension \$0.00						
0.045 0.628 11.012	Skidsteer	Quantity 1	<u>Unit</u> LS	Total Equipme	ent =	\$107.80 Extension \$0.00 \$8,305.69						
0.045 0.628 11.012	Skidsteer			Total Equipme	ent =	\$107,80 Extension \$0.00 \$8,305.69 \$0.00						
0.045 0.628 11.012	Skidsteer			Total Equipme	ent =	\$107.80 Extension \$0.00 \$6,305.69 \$0.00 \$0.00						
0.045 0.628 11.012 C. Materia	Skidsteer			Total Equipme	ent =	\$107,80 Extension \$0.00 \$8,305.69 \$0.00						
30.045 30.628	Skidsteer			Total Equipme	ent =	\$107.80 Extension \$0.00 \$6,305.69 \$0.00 \$0.00						
0.045 0.628 11.012 C. Materia	Skidsteer			Total Equipme	ent =	\$107.80 Extension \$0.00 \$8,305.69 \$0.00 \$0.00						
0.045 0.628 11.012 C. Materia	Skidsteer als			Total Equipme <u>Price</u> \$8,305.69	ent =	\$107.80 Extension \$0.00 \$8,305.69 \$0.00 \$0.00 \$0.00						
0.045 0.628 11.012 C. Materia	Skidsteer als		LS <u>Unit</u>	Total Equipment Price \$8,305.69	ent =	\$107.80 Extension \$0.00 \$8,305.69 \$0.00 \$0.00 \$0.00						
0.045 0.628 11.012 C. Materia	Skidsteer als	1		Total Equipment Price \$8,305.69	ent =	\$107.80 Extension \$0.00 \$8,305.69 \$0.00 \$0.00 \$0.00 \$,305.69 Extension \$1,509.50						
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0.045 0.628 11.012 C. Materia	skidsteer als	1 Quantity	LS <u>Unit</u>	Total Equipment Price \$8,305.69	ent =	\$107.80 Extension \$0.00 \$8,305.69 \$0.00 \$0.00 \$0.00 \$0.00 Extension \$1,509.50 \$0.00 \$0.00						
0.045 0.628 11.012 C. Materia	skidsteer als	1 Quantity	LS <u>Unit</u>	Total Equipment Price \$8,305.69	ent =	\$107.80 Extension \$0.00 \$8,305.69 \$0.00 \$0.00 \$0.00 8,305.69 Extension \$1,509.50 \$0.00						



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445 (T) 760-744-0760 (F) 760-744-6475 Lic. No. 222252

Cost Proposal/Estimate for Extra Work

LILES NO.	
SCC COR NO.	138
SCC JOB NO.	100531

I VI EC NO

PROJECT:

Victor Valley Wastewater Reclamation Authority

Subregional WRP's

W.M. Lyles Co.

TO:

Attention: Grant Gourly

42142 Roick Drive Temecula, CA 92590

THE FOLLOWING BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPROVAL:

REFERENCE: RFI #441B

DESCRIPTION: Ultrasonic Level Sensor for the Process Drain PS

(a) Direct Materials [from Breakdown]	. \$	667
		007
(b) Sales Tax on Materials [8.0% of (a)]	\$	53
(c) Direct Labor [from Breakdown]	\$	1,447
(d) Rental Equipment [from Breakdown]	. \$	400
(e) Sales Tax on Rental Equipment [8.0% of (d)]	\$	32
(f) Subcontract & Outside Services [from Breakdown]	\$	
(g) SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	2,599
(h) Overhead and Profit:		
Materials [15% of (a)+(b)]	\$	108
Direct Labor [15% of (c)]	. \$	217
Equipment [15% of (d)+(e)]	\$	65
Subcontract & Outside Services [15% of (f)]	. \$	•
(i) SUBTOTAL [(g)+(h)]	\$	2,989
(j) Bond [1.0% of (i)]	\$	30
TOTAL PROPOSAL/ESTIMATE [(i)+(j)]	\$	3,019
Estimated Time Extension Required TBD	days	
SUBMITTED BY: DATE:		1/26/2018
Brendan Bradford		
APPROVED BY: DATE:		

Breakdown of Direct Cost

		1110	PRIAL		BOR	1.4	BOR	AV	VC PCO NO. EQUIPMI	
CONTRACTOR WORK ITEMS	QTY		ERIAL							
1 Hesperia 2 Labor 3 Material 4 Truck 5 6 7 Apple Valley	1 Lot 1 Lot	236.54	236.54 -	1.00	1.00 - -	8.00 8.00	8.00 - - 8.00	10.0	\$ 20.00	\$ 200.C
8 Labor 9 Material 10 Truck 11 12 13 14 15 16	1 Lot 1 Lot		- 430.51 - - - - - - - - - - - - - - - - - - -	2.00		6.00		10.0	\$ 20.00	\$ 200.0
TOTAL CONTRACTOR'S WORK		\$	667.05	TOTAL HRS RATE / HR \$ TOTAL HR	3.00 \$81.24 243.72	TOTAL HRS RATE / HR \$	16.00 \$75.19 1,203.04 1,446.76	\$	141	400.0

CURCONTRACTOR WORK ITEMS	OTV	MATE	ERIAL	LAB	OR	LAB	OR		EQUIPMEN	IT
SUBCONTRACTOR WORK ITEMS	QTY	UNIT (\$)	EXT	UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
TOTAL SUBCONTRACTOR'S WO		700		100				2		

9668689 72

DAILY WORK BEPORT

RTI 441

SOUTHERN CONTRACTING COMPANY, INC. P. O. BOX 445 — SAN MARCOS, CALIFORNIA

LICENSE #22225

5-6	Mesperia W.K.P. ION LET Change ax Tostallation.	007	F	08	proces	S Alan	a pu	mp	Station	and	
CUSTOME APPROVA	E PL								TIME SHIFT START		TIME SHIFT STOP 3. 6
CLASSIFI- CATION	- EMPLOYEE'S NAME LAST NAME FIRST NAME	INITIAL	TOTAL HRS.	REG HRS.	RATE	AMOUNT	O.T. HRS.	RAT	E AMOUNT	TOTAL LABOR COST	
FW	Stephens, Coning		8 1		[HEAD OFF]	CE USE ONLY)					
. SIZE	FORD F-150 4235	TOTAL HRS.	RA	TE	S. T. AMOUNT	RATE	S. T. AMOUN	TUN	BOR (INCLUDES PAY KES, INSURANCE, AN ION BENEFITS TERIALS, SUBS.	ROLL D	
	Chery #621	1						su ov	RVICES & RENTAL B-TOTAL ERHEAD DFIT /	%	
				-					JIPMENT	76	
ICE OR IVERY ET NO.	OTY. PURCHASES OF MA				VICES & RE	NTALS	AMOUNT				
	6" Din Hail) 4	- A							
	2 End Horchors 2 Terminal Bloom 8 Wire Labols 3' TSP Wire 6 5.5. 114x1" Bo	45		Shel	s, No	4.5		ТОТ		FICE USE ONLY)	nd

Item #	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set: 0	Combined, Combined, Combined, Combine	d, Combined			\$236.54
Cost Code:	010 - Conduit/Raceway				<u>\$200.41</u>
2,614	1/4x1" SS SCREWS	6.00	\$28.88	С	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	С	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	С	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	С	\$0.44
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code:	020 - Wire/Cable				<u>\$13.13</u>
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	М	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code:	140-Instrumentation				<u>\$23.00</u>
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	E	\$10.00
60,139	End Anchors	2.00	\$1.50	E	\$3.00
					<u>\$236.54</u>

DAILLY WORK REPORT

PEOG 099

SOUTHERN CONTRACTING COMPANY, INC. P. O. BOX 445 -- SAN MARCOS, CALIFORNIA

LICENSE #2222!

TO M	NAPPLE Valley WI TION LIT Change Tinstallation.	11	**	<u></u>			SUPT. FOREI	OR MAN_			- 10B	1005	7/
DESCRIPT	TION LIT Chang	e 00	ř	For	pro	cess do	WEEK	7	hursda.	Station	E Ifiell	8	
CUSTOM APPROV	<i>i</i> er									TIME	6:30	TIME	3:00
CLASSIFI CATION		E INITIAL	TOTAL HRS.	REG HRS.	RATE	AMOUNT		0.1. RS.	RATE	AMOUNT	TOTAL LABOR	1	
FW GFW	Long Douglas Stephens, Crain		8								COST		
								7					
O. SIZE	EQUIPMENT	TOTAL HRS.	RAT	TE	(HEAD OF S. T. AMOUNT	FICE USE ONLY]		S. T.	III IMAES, JI	INCLUDES PAY	ROLL		
	Ford F 150 # 235	8					An	NOUNT	MATERIA SERVICE	ENEFITS ALS, SUBS, ES & RENTALS			
	7								III	AD			-
				1					TOTAL	-	% %		
DICE OR LIVERY KET NO.	QTY. PURCHASES OF			S, SERI	/ICES & R	ENTALS	AMO	TNU			-		
	1 8" 6" 4" 3.5. 6" Pin Rail	5-6	ox										
	2 Find Rehor 2 Terminal Block	rd.							TOTAL	[HEAD OFF	ICE USE ONLY		
	& Wise I hale		·						Chi	nle R	nold	L	
- 6	3: TSP Wise 6 55. 114"x 1" 1/2 6 1/2 ocal 4000. 2' Seel Tite	1+3, Wa	She ss	, No	t5				4	(7 8			
2	2 Seel Tite												
					16	5-97							

Item #	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set: 0	Combined, Combined, Combined, Combine	ed, Combined			\$430.51
Cost Code:	010 - Conduit/Raceway				\$394.38
2,614	1/4x1" SS SCREWS	6.00	\$28.88	С	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	С	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	С	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	С	\$0.44
3,804	1/2 FLEX WP	2.00	\$178.20	С	\$3.56
3,905	1/2" FLEX WP OCAL STR CONN	6.00	\$31.74	E	\$190.41
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code:	020 - Wire/Cable				\$13,13
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	М	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code:	140-Instrumentation				\$23.00
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	E	\$10.00
60,139	End Anchors	2.00	\$1.50	E	\$3.00
					\$430.51



COR - Change Order Request - Trimax Systems COR No. 51

To: WM Lyles Date:

February 6, 2018

42142 Roick Drive

Job No.:

P-2192

Temecula, CA 92590

Project:

VVWRA

Attention: Grant Gourley

Sub-regional Water Reclamation Plants

Date Required: December 15, 2017

From: Marty McLaughlin

Supporting Docs: RFI441B

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,611.38	Complete as of 1-29-2018	N/A

Subject: Time and Material as required

Date	Day	Eng/Tech	Н	DUES	1	Reg	Οv	ertime	M	leage					
			Travel	On-Site	Hours	Rate	Hours	Rate	To Site	From Site	IRS	+ 15%	Hotel + 15%	Per Diem	Totals
12/22/201	7 Friday	Marvin	3	6.5	8	\$ 110.00	1.5	\$ 165.00	79	79	\$	0.62		5	1,225.46
12/22/201	7 Friday	George	3	6.5	8	\$ 160.00	1.5	\$ 240.00	79	79	\$	0.62		Š	1,737.96
1/11/201	B Thursday	Marvin	3	7	8	\$ 110.00	2	\$ 165.00	79	79	\$	0.62		Š	1,307.96
1/15/201	B Monday	Marvin	3	9	8	\$ 110.00	4	\$ 165.00	79	79	\$	0.62		9	1,637.96
1/24/201	B Wednesday	Marvin	3	2.5	5.5	\$ 110.00	0	\$ 165.00	79	79	\$	0.62		9	702.96
1/24/201	B Wednesday	George	3	2.5	5.5	\$ 160.00	0	\$ 240.00	79	79	\$	0.62		Ś	977.96
1/25/201	3 Thursday	George	3	7.75	8	\$ 160.00	2.75	\$ 240.00	79	79	\$	0.62		Ś	2,037,96
1/25/201	3 Thursday	Maria	0	7	7	\$ 160,00	0	\$ 240.00	D	0	\$	0.62		Ś	1,120.00
1/29/201	Monday	Marvin	3	2	5	\$ 110.00	0	\$ 165.00	79	79	\$	0.62		Ś	647.96
1/29/2010	8 Monday	George	3	2	5	\$ 160.00	0	\$ 165.00	79	79		\$0.62		\$	897.96
eference F	-2192 COR-51														
														\$	12,294.14

Quantity	Item	Description	U	Init Price	12 116	Amount
		TAXABLE				
1	1	FMB53-AA21JD1CGE25B2	S	1,685.34	\$	1,685.3
		Hydrostatic Level Transmitter 65 ft. Cable Tag #APL-LE/L(T-7705				
1 I	2	FMB53-AA21JD1CGE25B2	s	1,701.74	g .	1,701.7
	_	Hydrostatic Level Transmitter 75 ft.	"	1,101.14	*	1,101.2
		Cable Tag #HES-LE/LIT-7705				
2	3	PSSR.VA24	ŝ	ne në	s	E0 6
·	3	IDEC PWR SUPPLY 24VDC 0.3A 7.5W DIN MTD	3	26.25	2	52.5
		D25 * * * * * * * * * * * * * * * * * * *				
		Reference P-2192 COR-51				
		Sub Total			s	3,439.5
		Material Profit -		15.00%	\$	515.9
		Material Sub Total			\$	3,955.5
		Sales Tax -		7.75%	\$	306.5
		Shinning Fees			8	55.1

Total Invoice Amount

Engineer/Field Tech Hours and Mileage (see chart)

Total

Please issue a change order for \$16,611.38

\$

12,294.14

16,611.38

16,611.38

FOR:		T&M Work	Jrk Surk		i	5	/. M. L.	W. M. LYLES CO.				
LOCATION:		WWRA-Hesperia	speria		ì			14259 Mojave Street Hesperia, CA 92345			JOB No.	55.1139
DESCRIPTION:			COH-92 Pre	oces Drain Pu	Imp Station Level 7	COH-92 Proces Drain Pump Station Level Transmitter Modifications Install Stilling Well	odifications				REPORT No.	RT No. 1
Date:	January 11, 2018											
EMPLOYEE	CLASSIFICATION	Regular Hrs.	S. T. EARNINGS Overtime Hours	Total Amount	92	EQUIPMENT	T.	Rate	Amount			
Raymond Lopez	Carp	4.0	0.0	4.0		17.120 Field Truck	4.0					
Gabriel Ortega	Carp	0.0	0.0	0.0								
		0	6	6			9			Total L & E	12.00	
DATE	INVOICE NO.	200	SUPPLIER				MATER	MATERIAL OR SUBCONTRACT			AMOUNT	15
					PVC Mat	PVC Material for Stilling Well						
					Ш							TTT
											TOTAL	ПП
Charles Reynolds	de		01/12/2018	018								
MWH Authorized Signatore			Date:									
Ogéthy styres by Aventran Guzzaba Di Saria Sariazaba general g	ighty signed by Jonathan Cuezada (12-US, E-Iquezada@wmlylesco.com, vy. M. Lyles Co., CN-Uomdhan Quezada ne 2016.01 (2005:11:38-09'00'		1/12/2018	<u>∞</u>								
WML Authorized Signature		1	Date:									

Sub-Regional WRP Projects Sub Regional WRP Projects





COH - Addition of a Dedicated

Receptacle for PLC UPS RFQ - Request for Quotatio Status:

Type: **Contract:** Contractor:

10943 - Hesperia W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - Hesperia

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Submitted:

Priority:

Submitted To:

11/28/2017

Pending

Medium

W M Lyles Co

Created:

11/28/2017

Contractor's PCO #: 93

Reason:

Owner Request

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

769.284.22

Amount Added:

2,737.72 772,021.94

New Approved Amount: Current Contract Duration:

821

Days Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Proposed Design Change Summary:

During the preliminary witnessed FAT test for the PLC control panels, it was suggested, to have a single outlet receptacle dedicated to the UPS along with the duplex general purpose receptacle already in the panels.

Please provide a cost proposal for the addition of a single outlet dedicated receptacle for the UPS. Each TRIMAX provided PLC located at the Hesperia WRP and Hesperia Lift Station shall be modified per this request for a total of 3-three

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

receptacles. The UPS receptacle shall be labeled "UPS" and the general purpose receptacle shall be labeled "Convenience Receptacle".

Locations

Element B1 - Hesperia WRP - Vol-05

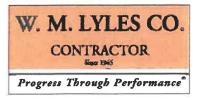
Element B2 - Hesperia LS-PL - Vol-06

D	of	io	re	n	~	0	8

RFI # 385 UPS Dedicated Receptacle Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	imated Cost	%	Ac	ljusted Cost
			Change	70		Change
1	Labor	\$			\$	
2	Materials	\$	-		\$	
3	Equipment	\$			\$	-
	Trimax	\$	2,357.06		\$	2,357.0
	Total	\$	2,357.06		\$	2,357.0
	Markup	\$	353.56	15%	\$	353.5
ubs	Subtotal	\$	2,710.62		\$	2,710.6
4		\$	-		\$	
		\$	-		\$	
		\$			\$	-
	Trimax	\$	-		\$	
	Subcontract Subtotal	\$			\$	-
	Subontractro Bond & Ins	\$	-	1%		
	Subtotal	\$			\$	
	GC-Subcontractor Markup	\$		5%	\$	-
	Total	\$	2,710.62		\$	2,710.6
	Subcontractor OH&P			15%	\$	-
	Subcontractor Bond & Ins			1%	\$	•
	GC Bond & Ins	\$	27.11	1%	\$	27.1
	Total	\$	2,737.73		\$	2,737.7



California Contractor's License No. 422390

Southern Division - **Temecula Office**42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

www.wmlyles.com

Visalia (559) 651-1450

An Equal Opportunity Employer

January 12, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-93 Added Receptacle At PLC's

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in RFI 385 response to add a dedicated receptacle to the PLC's. WML deems this change to be additional work and received pricing from Trimax. The cost for this change is \$2,737.72. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.



From: Marty McLaughlin

COR – Change Order Request

Trimax Systems COR No. 31

To: Southern Contracting Company

559 N. Twin Oaks Valley Rd.

Job No.:

December 15, 2017

San Marcos, CA 92069

Attention: Steve Vickers

Project:

Victor Valley Wastewater Reclamation District

Subregional Water Reclamation Plants

Date Required:

December 16, 2017

Succeeding Dass

Supporting Docs: RFI 385

Drawing Ref.:

none

P-2192

Spec Ref.:

none

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material – Now Complete	\$3,928.44	NA	None

Subject:

Add Dedicated Receptacle

Summary:

Trimax Systems has adding (1) dedicated 15Amp receptacle in each of the following panels:

- Apple Valley WRP Main
- Apple Valley WRP Headworks
- Hesperia WRP Main
- Hesperia WRP Headworks
- Hesperia Lift Station

The following was added:

- Five (5) 15Amp Single Gang Box, Single Gang Receptacles and Cover Plates.
- Five (5) 15Amp 120VAC 1P din rail circuit breaker.
- Wiring modifications for (5) panels.
- Drawings and documentation modifications for (5) Panels include:
 - o Power Distribution
 - o Panel Layouts
 - Material List
 - o Operations and Maintenance Manuals
 - o Witness testing

Please issue a change order for \$3,928.44 for the above requested changes.

WML Markup 15% - \$589.26

WML Bond 1% - \$45.17

WML Total - \$4,562.87

COH = \$2,737.72

TOAV = \$1,825.15

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH- MBR Basin Drain 16" Knife

Gate Valve Body Change Type:

RFC - Request for Change

Contract: Contractor: W M Lyles Co

ISO Currency Code: USD

Purchase Order:

10943 - Hesperia **Revision Date:**

Status:

Contract # 10943 - Hesperi Priority:

Pending On Org:

Submitted:

Submitted To:

Pending High

Lyles Co

01/09/2018

Victor Valley Wastewater

Victor Valley Wastewater

Reclamation Authority, W M

Reclamation Authority

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

01/09/2018

Contractor's PCO #:

Reason:

Design Errors

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: Amount Added:

769,284.22 22,330.58

New Approved Amount:

791,614.80 821

Current Contract Duration: Davs Added:

0

New Contract Duration:

821

Budget: Funding:

Cost Item:

Proposed Design Change Summary:

Each MBR Basin has a 16" Knife Gate Vale for draining the basins. The valves specified and supplied are metal to metal seating, which has an allowable leakage per AWWA. Under the low head conditions of the MBR Basins the daily leakage is

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

too excessive causing operational issues in maintaining a high mix-liquor concentration required to operate the MBR system.

MBR System Provider, Anaergia, has contacted the valve manufacturer and a recommendation to replace the valve body with a resilient seated valve has been excepted as a fix resolving the leakage issue.

Please provide two resilient seated knife gage valve bodies to be used with the existing motorized operators already in place.

Locations

Element B1 - Hesperia WRP - Vol-05 - 03 - Membrane Filtration Basins

Files

RE_ Hesperia Problems.pdf	1.2 MB
Brochure_KGC-ES.PDF	685.02 KB
Cutsheet_KGC-ES.PDF	551.16 KB

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

tem	Description	Es	timated Cost	%	A	djusted Cost
tem	Description		Change	%		Change
1	Labor	\$			\$	-
2	Materials	\$			\$	-
3	Equipment	\$			\$	-
4	Anaergia	\$	19,225.64		\$	19,225.0
	Total	\$	19,225.64		\$	19,225.0
	Markup	\$	2,883.85	15%	\$	2,883.8
ubs	Subtotal	\$	22,109.49		\$	22,109.4
uus		\$	·		\$	
		\$	-		\$	
		\$			\$	
		\$			\$	-
	Subcontract Subtotal	\$	-		\$	
	Subontractro Bond & Ins	\$	-	1%		
	Subtotal	Ś			\$	
	GC-Subcontractor Markup		-	5%		
	Total	\$	22,109.49		\$	22,109.4
	Subcontractor OH&P			15%		
	Subcontractor Bond & Ins			1%		_
	GC Bond & Ins	\$	221.09	1%	\$	221.0
	Total	\$	22,330.58	сон	\$	22,330.5
				TOAV	\$	22,330.5



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 12, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-94 Knife Gate Valve Replacement

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the Knife Gate Vales that drain the Membrane Tanks. WML deems this change to be additional work and received pricing from Anaergia to complete this work. The attached pricing include furnish and install of these new valves. The cost for this change is \$22,330.58. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.



Anaergia DB Inc.

4210 South Service Road Burlington, ON L7L 4X5

Canada

Phone: (905) 766-3333 Vendor W.M. Lyles Co. 42142 Roick Drive Temecula, Ca 92590 Contact: Grant Gourley Phone: 9517604169 Email: ggourley@wmlylesco.com

Change Order

Date	C.O. No.
11/28/2017	VVWRA_CO_MBR_17_09

	Ship To	J - 60
Anaergia	DB Inc.	
4210 Sou	th Service Road	
Burlingto	n, ON L7L 4X5	
Canada		
Contact:	Trevor Shackelford	
Phone:	(760) 885-5003	
Email:	trevor.shackelford@anaergia.com	

Terms	Expected	Ship Via			Project Num	ber	Cost Code/PCS
NET 30	6-8 Weeks	FOB Job Site		T	8229A10		155
	Description		Qty		Rate		Amount
- 16" - Bod - Pac - Gat - Sear - Resi - Rate	rik KGC-ES (Cast Stainles ANSI 150 Flanged, 3.5" I ly: 316 SS, ASTM A351 Cl king: PTFE Braided Packi e: 316 SS, ASTM A240 t Ring: EPDM illient Seated (Leak Tight/ ed form 0 to 150 psi ect Swap to existing Actu	Lay Length F8 Ing (Drip Tight)	4	\$	9,412.82	\$	37,651.28
2) Funct	cion Testing/Inspection b	y Manufacturer	1	\$	800.00	\$	800.00
*Price includes to	axes and freight costs					ip 15%: 1%:	\$38,451.28 \$5,767.69 \$442.19 \$44,661.16
	IDE WORK AND MATERIALS, NT TO MEMBRANE SYSTEM JME 9 OF 10.					\$22,3 \$22,3	
Anaergia P&ID at	tached for reference						
GST/H	ST No. 81503 440	0 RT0001		То	tal		SD 38,451.28
Phone	# (905) 766-3333				Web S	ite www.anae	ergia.com

Approval Signature: Trever Shackeford

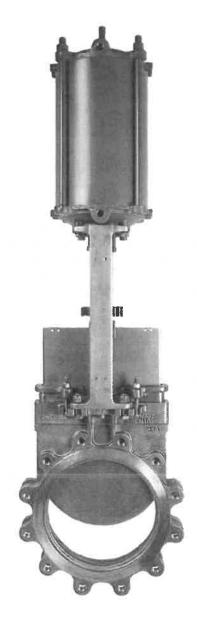
Approval Date:

11/28/2017

BULLETIN 35.00-1D MAY 2013



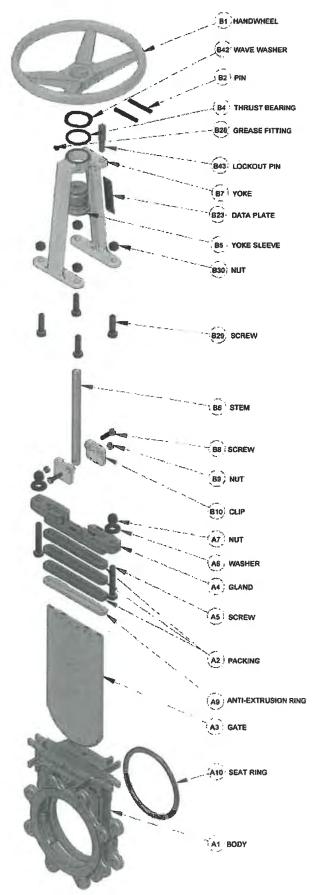
DeZURIK KGC-ES EXTENDED SERVICE LIFE CAST STAINLESS STEEL KNIFE GATE VALVES TECHNICAL SPECIFICATIONS



16-111

Materials of Construction

Item	Description	Material
		304 Stainless Steel, ASTM A351 CF8
		316 Stainless Steel, ASTM A351 CF8M
A1	Rody	317 Stainless Steel, ASTM A351 CG8M
AI	Body	254-SMO Stainless Steel, ASTM A351 CK3MCuN
		2205 Duplex Stainless Steel, ASTM A890 CD3MN
		Hastelloy C 276, ASTM A494 CW12MW
		ASP - Self-Adjusting PTFE Braided Packing with AFLAS
		Fluoroelastomer Cord to 400°F (205°C) (pH Range 0-14)
	17	SMP - PTFE Braided Packing to 500°F (260°C)
		(pH Range 0-14)
		TDP - Dry Service, Dry PTFE Braided Packing with Solid
A2	Packing	PTFE Cord to 500°F (260°C) (pH Range: 0-14) HTP - High Temperature Braided Packing to 650°F (343°
r.e	I dexing	(pH Range: 1-12)
		HMP - High Temperature Braided Packing with Metal
		Scraper Ring to 1000°F (540°C)
		(pH Range: 3-10)
		FGP - Food Grade Service to 450°F (232°C)
		(pH Range: 3-11)
		304 Stainless Steel, ASTM A240
		316 Stainless Steel, ASTM A240
		317 Stainless Steel, ASTM A240
АЗ	Gate	17-4 Stainless Steel H900 Heat Treated, ASTM A564
,	Guto	254 - SMO Stainless Steel, ASTM A240
		2205 Duplex Stainless Steel, ASTM A276
		Hastelloy C 276, ASTM B574
		410 Stainless Steel, ASTM A240
A4	Gland	Matches Body Material
A5	Screw	304 Stainless Steel
A6	Washer	304 Stainless Steel
A7	Nut	304 Stainless Steel
		PTFE, Glass Filled to 500°F (280°C) (pH Range 0-14). Usi with SMP, TDP, ASP and FGP packing.
	Anti-Extrusion Ring	Square Braid with weave of fully-annealed copper wire
A9		scrapers to 1000°F (540°C) (pH Range 3-10). Used with
		HMP packing.
		Carbon Fabric Reinforced Graphite to 800°F (427°C)
		(pH Range 1-12). Used with HTP packing.
		CR - Chloroprene to 180°F (83°C)
		NBR - Acrylonitrile-Butadiene to 180°F (83°C)
		EPDM - Terpolymer of Ethylene, Propylene and a Diene
		to 250°F (122°C)
A10	Seat Ring*	FKM - Fluoro Rubber to 400°F (204°C)
		17-4 PH Stainless Steel H900 Heat Treated
		CRW - Chloroprene, Off White to 140°F (60°C)
		PTFE - Polytetrafluoroethylene, white to 450°F (230°C) Reinforced PTFE - Polytetrafluoroethylene,
		to 500°F (260°C)
B1	Handwheel	Painted, Cast Iron
B2	Roll Pin	Carbon Steel or 420 Stainless Steel
B4	Thrust Bearing	Oil Impregnated Bronze
B5	Yoke Sleeve	Aluminum Bronze
B6	Stem	304 Stainless Steel
	Yoke	Cast Steel or 304 Stainless Steel
B8	Screw	Zinc Plated Steel or 18-8 Stainless Steel
B9	Nut	Zinc Plated Steel or 18-8 Stainless Steel
B10	Clip	304 Stainless Steel
B23	Data Plate	316 Stainless Steel
B28	Grease Fitting	Zinc Plated Steel
B29	Screw	Zinc Plated Steel or 18-8 Stainless Steel
B30	Nut	Zinc Plated Steel or 18-8 Stainless Steel
B42	Wave Washer	304 Stainless Steel
	Lockout Pin	304 Stainless Steel



^{*}The replaceable Seat Ring is standard on resilient-seated valves and optional on metalseated valves. The standard integral metal seat matches the body material.

Valve Selection Shut-Off Capabilities

Resilient Seats	Leak tight/drip tight
Metal Seats	Meet MSS SP-81 and TAPPI TIS 405-8

Pressure Ratings

	150 psi C.W.P. (1030 kPa)
Optional 30 & 36* (750 & 900mm)	100 psi C.W.P (690 kPa)

Notes: Valve can handle Full Reverse Pressure without damage.

Valves with Chloroprene, off white seats are limited to 50 psi (350 kPa). Contact DeZURIK with service conditions.

Flow Parameters Round Port

Valve Size	Cv* Kv* 100% Open	K** (resistance)	Port Area (in²/cm²)		
2 <u>*</u>	300	0.16	3.1		
50mm	260		20		
<u>3"</u>	<u>675</u>	0.16	7.1		
80mm	584		46		
<u>4°</u>	1200	0.16	12.6		
100mm	1040		81		
<u>5°</u>	1900	0.16	<u>19.6</u>		
125mm	1640		126		
6°	2700	0.16	28.3		
150mm	2340		183		
8"	4800	0.16	50.3		
200mm	4200		325		
10"	7500	0.16	78.5		
250mm	6500		506		
12"	10800	0.16	113		
300mm	9300		729		
14"	13200 11400	138 890			
350mm	17400	0.16	183		
400mm	15100	0.16	1180		
18*	22300		234		
450mm	19300	0.16	1510		
20°	27800		291		
500mm	24000	0.16	1880		
22"	34000		355		
550mm	29400	0.16	2290		
24*	40500		425		
600mm	35000	0.16	2740		
26*	47800		501		
650mm	41300	0.16	3230		
28*	55600		583		
700mm	48100	0.16	3760		
30"	64000		<u>672</u>		
750mm 32*	nm 55400		4340 767		
800mm	63100	0.16	4950		
36"	93000		976		
900mm	80400	0.16	6300		
42*	126000		1336		
1050mm	109000	0.16	8620		
48"	165000		1750		
1200mm	142700	0.16	11290		

*Cv = Flow in GPM of water at 1 psi pressure drop.
Kv = Flow in m3/hr. of water at 100 kPa pressure drop.
** K = The resistance coefficient of the valve. The constant (K) can be used to determine the equivalent length of pipe.

 $\begin{array}{lll} L = \underbrace{KxD} & Where & L & = & Equivalent length of pipe in feet \\ f & K & = & Resistance coefficient \\ D & = & Pipe diameter in feet \\ f & = & Friction factor, related to type of pipe \\ \end{array}$

Applicable Standards

DeZURIK KGC-ES Knife Gate Valves are designed and/or tested to meet the following standards:						
MSS SP-81	Metal Seated Valves, Stainless Steel, Bonnetless, Flanged Knife Gate Valves					
ANSI B16.5 2-24" (50-600mm)	Flanges and Flanged Fittings, ANSI 150 Conforms to related drilling dimensions					
ANSI 16.47 26-48" (650-1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions					
International Standards	Conforms to flanged bolt guides — JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN10 and 7005-2/PN16; BS 4504/PN10 and BS 4504/PN16; and AS 2129 Tables D and E SANS 1123-1000 and SANS 1123-1600					
TAPPI TIS 405-8	Recommendations for Stainless Steel, Bonnetless, Flanged, Wafer Knife Gate Valves. Revoked by TAPPI, Same as MSS SP-81					

Flow Parameters V-port 60 Degrees

Valve Size Cv* Kv* 100% Open		K** (resistance)	Port Area (in ² /cm ²)		
<u>2"</u>	<u>89</u>	1.80	<u>1.9</u>		
50mm	77		12		
3 <u>*</u>	<u>210</u>	1.63	<u>4.3</u>		
80mm	584		28		
<u>4"</u>	386	1.53	7.7		
100mm	330		50		
<u>5°</u>	<u>665</u>	1.27	<u>11.5</u>		
125mm	580		74		
<u>6"</u>	900	1.42	17.2		
150mm	780		111		
<u>8*</u>	1660	1.32	30.6		
200mm	1400		197		
<u>10°</u>	2320	1.65	42.0		
250mm	2000		271		
<u>12"</u>	3490	1.52	<u>61.9</u>		
300mm	3000		399		
<u>14"</u>	4650	1.27	80.8		
350mm	4000		521		
16"	6110	1.29	106		
400mm	5300		680		
<u>18"</u>	8000	1.23	138		
450mm	6900		890		
20"	10100	1.20	170		
500mm	8700		1100		
22°	11900	1.28	213		
550mm	10300		1370		
24°	15100	1.14	250		
600mm	13100		1610		
26"	16800	1.28	300		
650mm	14500		1940		
28"	19500	1.29	350		
700mm	16900		2260		
30°	23900	1.14	389		
750mm	20700		2510		
32"	25600	1.30	460		
800mm	22100		2970		
36"	35200	1.11	568		
900mm	30400		3660		
42°	44100	1.32	800		
1050mm	38100		5160		
48"	57800	1.33	1050		
1200mm	50000		5770		

Valve Selection

Valve and Actuator Weights

With Cylinder With Bevel Valve Basic With With With Gear Size Valve Handwheel Lever Chainwheel Handwheel* Size lbs. Kg. 10 4.5 <u>32</u> 14.5 20 4" (100mm) 29 13 50mm 9 <u>16</u> 37 17 27 12 88 4" (100mm) 17 80mm 18 40 <u>4"</u> 100mm <u>24</u> 11 <u>36</u> 16 45 48 22 48 96 4" (100mm) 20 22 43.5 6" (150mm) 63 29 4" (100mm) 26 <u>32</u> 14.5 <u>51</u> 23 <u>66</u> 30 108 49 60 27 6" (150mm) 76 35 125mm 8° (200mm) 40 88 4" (100mm) 63 29 <u>6"</u> 150mm <u>38</u> 17 <u>66</u> 30 <u>57</u> 26 113 51 6" (150mm) 81 37 8" (200mm) 93 42 101 46 8" <u>65</u> 30 98 44.5 86 144 6" (150mm) 112 51 200mm 8" (200mm) 65 124 56 8" (200mm) 174 79 <u>157</u> 71 10" 103 141 179 191 10" (250mm) 220 100 250mm 12" (300mm) 257 117 8" (200mm) 225 102 12" 148 67 213 97 187 85 227 103 241 109 10" (250mm) 270 122 300mm 12" (300mm) 309 140 199 265 120 14" 284 303 10" (250mm) 332 151 N/A 350mm 90 137 12" (300mm) 372 169 10" (250mm) 409 186 341 155 380 172 N/A 12" (300mm) 449 204 400mm 162 14" (350mm) 495 225 12" (300mm) 551 250 18" 361 433 197 473 215 <u>449</u> N/A 14° (350mm) 602 273 450mm 16" (400mm) 813 369 12" (300mm) 712 323 20° <u>518</u> 235 593 269 653 296 637 289 N/A 14" (350mm) 760 345 16" (400mm) 982 445 12" (300mm) 830 377 <u>622</u> 282 22" <u>698</u> <u>760</u> 14" (350mm) 400 881 N/A N/A 550mm 16" (400mm) 500 1101 18° (450mm) 1144 519 12" (300mm) 947 430 24" 600mm 803 364 882 400 14° (350mm) 1001 454 N/A N/A 16" (400mm) 1219 553 18" (450mm) 1262 572 12" (300mm) 1200 544 14" (350mm) 1251 568 26° <u>918</u> 417 1104 501 N/A N/A N/A 16" (400mm) 1524 692 18" (450mm) 1578 716 20" (500mm) 1711 777 12" (300mm) 643 14" (350mm) 666 1467 28" 700mm 1111 503 1325 601 N/A N/A N/A 16" (400mm) 1648 748 18" (450mm) 1830 830 20° (500mm) 891 1963 12" (300mm) 1718 780 14" (350mm) 1768 802 <u>30"</u> 1446 1594 N/A N/A N/A 16" (400mm) 1985 900 750mm 18" (450mm) 2205 1000 20" (500mm) 2365 1073 12" (300mm) 1901 862 14" (350mm) 1951 886 1700 772 32° 1825 828 N/A N/A N/A 16" (400mm) 2121 800mm 18" (450mm) 2300 20" (500mm) 2426 1101 14" (350mm) 2541 36" 2204 2366 16" (400mm) 2755 1250 N/A N/A N/A 900mm 18" (450mm) 2987 1355 20" (500mm) 3150 1428 42" 3600 3908 N/A N/A N/A On Application 1050mm 1634 1774 4997 5450 N/A N/A N/A On Application 1200mm 2474

<u>Pounds</u> Kilograms

Note: Weights are approximate and do not include crating.

^{*} For Bevel Gear with Chainwheel, add the following weight to the bevel gear with handwheel weight: 2-18" add 7 lbs. (3kg) 20-24" add 26 lbs. (12kg) 30" add 74 lbs. (34kg) 36" add 68 lbs. (31kg)

Ordering

To order, simply complete the valve order code from information shown. An ordering example is shown for your reference.

Valve Style Give valve style code as follows: Cast Stainless Steel Knife Gate Valve

Valv Give	_		ize code	as follows:			
2	=	2"	(50mm)	20	=	20°	(500mm)
3	=	3"	(80mm)	22	=	22"	(550mm)
4	=	4"	(100mm)	24	=	24"	(600mm)
5	=	5"	(125mm)	26	=	26"	(650mm)
6	=	6"	(150mm)	28	=	28"	(700mm)
8	=	8"	(200mm)	30	=	30"	(750mm)
10	=	10"	(250mm)	32	=	32°	(800mm)
12	=	12"	(300mm)	36	=	36"	(900mm)
14	=	14"	(350mm)	42	=	42"	(1050mm)
16	=	16"	(400mm)	48	=	48"	(1200mm)
18	=	18"	(450mm)				

Body StyleGive body style code as follows:

Extended Service Life with DeZURIK Exclusive Premium Packing System

End Connection Give end connection code as follows:

ANSI 150 UNC Tapping for Threads

ISO 7005/PN10 Drilling ISO 7005/PN16 Drilling AS2129 Table D Drilling F116 F1DA

AS2129 Table E Drilling F1UN⁽¹⁾ = ANSI 150 UN-8 Tapping for Threads

SANS 1123-1000 SANS 1123-1600 F1S10 F1S16

Optional End Connections = ANSI 150 Through Bolting

F1J1 = JIS 10 Drilling

On Application

Other end connections available on application.

Body MaterialGive body material code as follows: Standard

304 Stainless Steel 316 Stainless Stee 317 Stainless Steel

On Application

Hastelloy C 254 Stainless Steel S10 2205 Duplex Stainless Steel

Packing Material Give packing material code as follows:

Standard Packing PTFE Braided Packing to 500°F (260°C) (pH Range 0-14)

Optional Packing

Self-Adjusting PTFE Braided Packing with AFLAS Fluoroelastomer Cord to 400°F (205°C) (pH Range 0-14)

Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord

to 500°F (260°C) (pH Range: 0-14) High Temperature Braided Packing to 650°F (343°C) HTP

(pH Range: 1-12)

HMP High Temperature Braided Packing with Metal Scraper Ring

to 1000°F (540°C) (pH Range: 3-10) Food Grade Service to 450°F (232°C) (pH Range: 3-11) FGP

Gate Material (3)

Give gate material code as follows:

Standard Gate Materials

304 Stainless Steel (Standard for S1 body material) 316 Stainless Steel (Standard for S2 body material) 317 Stainless Steel (Standard for S3 body material)

Optional Gate Materials

17-4 Stainless Steel H900 Heat Treated (Used with S1, S2, & S3 body materials)

On Application

254-SMO Stainless Steel (Used with S6 body material) 410 Stainless Steel (Used with S1, S2 & S3 body materials) 2205 Duplex Stainless Steel (Used with S2, S3 OR S10 S8

S10

body materials)

HC Hastelloy C (Used with HC body materials)

Seat Material (2)

Give seat material code as follows:

Standard Seat Materials

Metal

V-Orifice All Metal Chloroprene to 180°F (83°C) CR

Acrylonitrile-Butadiene to 180°F (83°C) NBR EPDM =

Terpolymer of Ethylene, Propylene and a Diene to 250°F (122°C)

Optional Seat Materials

FKM = Fluoro Rubber to 400°F (204°C) S5D = 17-4 PH Stainless Steel H900 Heat Treated

On Application

CRW = Chloroprene, Off White to 140°F (60°C) PTFE or RTFE

Standard Options
Give option code as follows:

ARRA = ARRA Compliant

Purge Ports in Seat Area Purge Ports in Chest Area

PSC Purge Ports in Seat and Chest Area Certificate of Material Conformance

CMC

CRT Certified Physical and Chemical Test Reports

Optional Coating
DeZURIK Standard Test Certification

P100 30" and 36" (750 and 900mm) valves with

100 psi (690 kPa) pressure rating

- (1) Applies to valves 18" (450mm) and larger. Flange bolt hole threads are 8 threads per inch in accordance with ANSI, API and MSS
- (2) The limiting factor in valve selection is the lowest temperature of the packing or seat.
 (3) Gate material limitations by body style in parentheses.

Ordering Example:

KGC,6,ES,F1,S2,ASP,S2-CR*Actuator

Cylinder Actuator Accessories

Position Indicating Switches

Position Indicating Switches are available for use on double acting cylinder actuators. Order as part of a complete valve/actuator assembly by adding the appropriate code from the table below to the valve and actuator order code. Two switches will automatically be set to indicate full open and full closed positions.

Two Switches - Open/Closed

Quantity/ Description	Switch Type	Reting	Manufacturer	Order Gode
2 SPDT	Mechanical	Noma 1, 3, 4, 4X, 6, 6P, 12 and 13	Honoywell LSA1A 1A	SE649
2 DPDT	Mechanical	Noma 1, 3, 4, 4X, 5, 6P, 12 and 13	Honoywoll LSA2B 1A	SE524
2 SPDT	Mechanical	Nome 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Heneywell LSXA3K 1A	SEH05
2 DPDT	Mochanical	Nome 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA4L-1A	SEH96
2 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO 73-13526-A2	SEHKA
2 SPDT, SST Housing	Preximity	CSA Class I, Div 2, Hazardous Locations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO 11-11124-A2	SEH94
2 SPDT, SST Housing	Preximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel-HK3077SG and HK3077SR	SEHK3

One Switch - Open

Quantity/ Description	Switch Type	Rating	Manufacturer	Order Gode
1 SPDT	Mechanical	Noma 1, 3, 4, 4X, 6, 6P, 12 and 13	Honoywoll LSA1A 1A	SEJ40
1 DPDT	Mechanical	Noma 1, 3, 4, 4X, 6, 6P, 12 and 13	Honoywoll LSA2B 1A	SEJ42
1 SPDT	Mechanical	Noma 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honoywell LSXA3K-1A	SEJ46
1 DPDT	Mechanical	Nome 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honoywell LSXA4L-1A	SEJ44
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO 73-13526-A2	SEHKE
1 SPDT, SST Housing	Proximity	CSA Class I, Div 2, Hazardous Locations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO 11-11124-A2	SEJ38
1 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel-HK3077SG	SEK37

One Switch - Closed

Quantity/ Switch Description Type		Rating	Manufacturer	Order Gode	
1 SPDT	Mochanical	Nems 1, 3, 4, 4X, 6, 6P, 12 and 13	Honoywoll LSA1A-1A	SEJ41	
1 DPDT	Mochanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honoywoll-LSA2B-1A	SEJ43	
1-SPDT	Meshanical	Neme 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell-LSXA3K-1A	SEJ47	
1 DPDT	Mochanical	Neme 1, 3, 4, 5, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Heneywell LSXA4L 1A	SEJ45	
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO 73-13526-A2	SEHKE	
1 SPDT, SST Housing	DT, SST Provimity CSA Class I, Div 2, Hazardous Lesations, (Groups		GO 11 11124 A2	SEJ39	
1 SPDT, SST Housing	Proximity	Stenel HK3077SR	SEK87		

Electric Motor Actuators

DeZURIK Knife Gate Valves can be furnished with electric motor actuators including Limitorque, Auma, Rotork, E.I.M. and others.

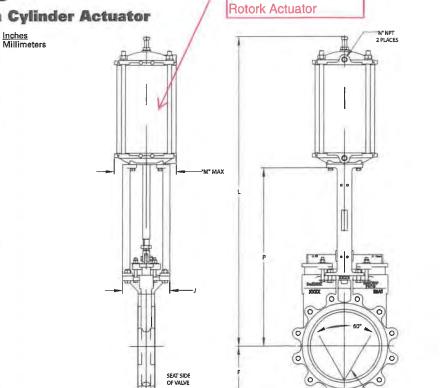
When ordering electric motor actuators, specify valve order code, shutoff pressure, service conditions (flowing media and installation direction); type of application (on/off or throttling); speed of operation; NEMA rating (4, 7, submersible, etc.); electrical characteristics (voltage and phase); actuator accessories and controls as per specification requirements.

Dimensions

Basic Valve with Cylinder Actuator

Valve	Din	nensi	ons
Size	F	H	J
<u>2"</u>	3.00	1.88	4.00
50mm	76	48	102
<u>3"</u>	3.75	2.00	4.75
80mm	95	51	121
<u>4°</u>	4.50	2.00	<u>5.00</u>
100mm	114	51	127
<u>5°</u>	<u>5.00</u>	2,25	5.75
125mm	127	57	146
<u>6"</u>	<u>5.50</u>	<u>2.25</u>	<u>5.75</u>
150mm	140	57	146
<u>8"</u>	<u>6.75</u>	<u>2.75</u>	<u>6.38</u>
200mm	171	70	162
<u>10"</u>	8.00	<u>2.75</u>	<u>8.25</u>
250mm	203	70	210
<u>12"</u>	9.50	3.00	8.25
300mm	241	76	210
14"	10.50	3.00	8.25
350mm	267	76	210
16"	11.75	3,50	8.69
400mm	298	89	221
18°	12.50	3.50	9.31
450mm	318	89	236
20"	13.75	4.50	9.42
500mm	349	114	239
22"	15.00	<u>4,50</u>	9.19
550mm	381	114	233
24°	16.00	4.50	9.42
600mm	406	114	239
26"	17.13	4.63	9.50
650mm	435	117	241
28"	18.25	5.00	10.69
700mm	464	127	271
30°*	19.38	5.50	11.25
750mm	492	140	286
32"	20.88	6.00	11.25
800mm	530	152	286
36**	23.00	6.00	11.25
900mm	584	152	286
42"	26.50	6,50	13.50
1050mm	673	165	343
<u>48"</u> 1200mm	Conta	ct DeZ	URIK

^{* 100} psi, face-to-face (H dimension) on 30" and 36" (750 and 900mm) is 4.62" (117mm)



To Re-Use Existing

2-16" (50-400mm) Valves

Actuator						Dimens	sions					
Order												
Code	<u>2"</u> 50mm	<u>3"</u> 80mm	4" 100mm	<u>5"</u> 125mm	<u>6*</u> 150mm	8° 200mm	<u>10"</u> 250mm	12" 300mm	<u>14"</u> 350mm	<u>16"</u> 400mm	M	N
CY-PC4	22.26 565	23.98 609	26.26 667	30.64 778	32,18 817		_	-	_	_	<u>5.38</u> 137	1/4
CY-PC6	-	_	27.61 701	32.00 813	33.56 852	39.11 993	47.13 1197	None	-		7.88 200	1/4
CY-PC8	_	-	_	32.38 822	33.94 862	39.49 1003	49.57 1259	<u>53.19</u> 1351	<u>59.06</u> 1500	62.74 1594	10.50 267	1/2
CY-PC10	_	_	_	-	_		50.97 1295	<u>54.59</u> 1387	60.35 1533	64.03 1626	13.00 330	1/2
CY-PC12	-	_		T-L	-	-1	50.94 1294	<u>54.56</u> 1386	60.70 1542	64.38 1635	15.00 381	1/2
CY-PC14	_	_	[-	_		_	-		63.68 1617	17.00 432	1/3

Inches Millimeters

OPTIONAL V-ORIFICE

18-48" (450-1200mm) Valves

Actuator						Dim	ension	S					
Order						L							
Code	<u>18"</u> 450mm	<u>20"</u> 500mm	22" 550mm	24" 600mm	<u>26"</u> 650mm	28" 700mm	30" 750mm	32" 800mm	<u>36"</u> 900mm	42" 1050mm	48" 1200mm	M	N
CY-PC10	73.59 1869	77.16 1960	-	-	- 1	1 - 1	_	_	-	-	- 1	13.00 330	1/2
CY-PC12	73.935 1878	77.495 1968	85.52 2172	89.475 2273	_		_	-	- 1			15.00 381	1/2
CY-PC14	73.24 1860	76.81 1951	85.52 2172	88.78 2255	95.38 2423	101.44 2577	108.19 2748	-	_	_		17.00* 432	1/2
CY-PC16	70.25 1784	75.94 1929	82.00 2083	87.91 2233	95.50 2426	101.56 2580	108.31 2751	113.94 2894	125.81 3196	_	Contact DeZURIK	17.00 432	1/2
CY-PC18		_	-	88.16 2239	95.75 2432	101.81 2585	108.56 2757	114.19 2900	126.06 3202	143.19 3637		19.00 483	3/4
CY-PC20	_	_	- 1	_		102.06 2592	109.81 2789	115.44 2932	126.31 3208	143.44 3643		21.00 533	3/4

^{*} M dimension on 26-30" (650-750mm) is 14.75" (375mm)

Inches Millimeters



DeZURIK KGC-ES EXTENDED SERVICE LIFE CAST STAINLESS STEEL KNIFE GATE VALVES



DeZURIK KGC-ES (Extended Service Life) Cast Stainless Steel Knife Gate Valves

Applications

DeZURIK KGC-ES Cast Stainless Steel Knife Gate Valves are designed for the toughest corrosive, abrasive liquid, slurry or dry material applications including: Pulp and Paper, Mining, Waste Water, Chemical, Petrochemical, Power, Steel, Food Processing, etc.

Design and Construction

The heart of the KGC-ES is the DeZURIK *Exclusive Premium Packing System*. This system features a tight tolerance machined packing chamber, rounded gate edge, Anti-Extrusion Ring, and many packing options to meet the demands of your specific application. All of these features together will improve sealing, extend packing life, and reduce maintenance.

Depending on what your application requires, the cast body and packing gland are available in 304, 316, 317, 254-SMO, 2205 Duplex Stainless Steel or Hastelloy C 276. Other body and gate materials are available upon request.

KGC-ES Knife Gate Valves are available in sizes 2" - 48" (50mm - 1200mm) with metal or resilient seated versions.

The actuator superstructure is heavy duty cast carbon steel or cast stainless steel to minimize corrosion. A variety of actuator options are available including: handwheels, chainwheels, bevel gears, levers, pneumatic cylinders, hydraulic cylinders, and electric motors. A full complement of accessories is also offered.

Applicable Standards

	e Gate Valves are designed the following standards:
MSS SP-81 Metal Seated Valves	Stainless Steel, Bonnetless, Flanged Knife Gate Valves
ANSI B16.5 2" - 24" (50 - 600mm)	Carbon Steel Flanges and Flanged Fittings, ANSI 150. Conforms to related drilling dimensions
ANSI 16.47 26" - 48" (650 - 1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions.
ASME B16.20 2" - 48" (50 - 1200mm)	Metallic Gaskets for Pipe Flanges. Conforms to Spiral-Wound gasket dimensions
International Standards	Conforms to flanged bolt guides: JIS 10; DIN 10 and DIN 16; ISO 7005-1/ PN10 and 7005-2/PN16; BS 4504/PN10 and BS 4504/PN16; and AS 2129 Tables D and E; SANS 1123-1000 and SANS 1123-1600



DeZURIK Exclusive Rounded Stainless Steel Gate

Gates are available in 304, 316, 317, 17-4, 254-SMO, 410, 2205 Duplex Stainless Steel or Hastelloy C for corrosion resistance. The gate has a precision ground finish on both sides to prevent packing and seat damage. The beveled knife-like gate edge with machined tooth on each side pushes away or cuts through solids in the flow stream.

- Provides superior sealing
- Improves packing life
- Requires less compression and thus reduces friction
- Eliminates sharp corners where leakage first occurs

Cast Gate Guides and Jams

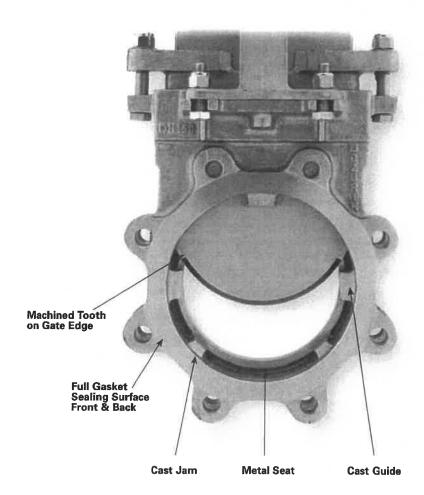
The cast gate guides provide support for the moving gate and will not break off like welded guides. Cast gate jams at the bottom of the body hold the gate securely against the seat to assure positive shutoff. All KGC-ES valves can handle full reverse pressure without damage. The body has raised face end connections with drilled and tapped lugs.

High Flow Capacity

100%, round port design allows high flow capacity and minimum pressure drop. DeZURIK's KGC-ES valve seat I.D. is equal to the inside diameter of standard pipe (ASME B36.10).

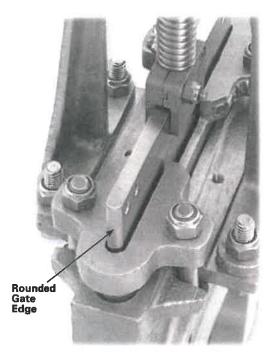
Full Gasket Sealing Front and Back

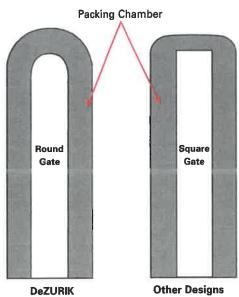
For maximum gasket sealing the KGC-HD end connections conform to ASME B16.20 dimensions for Spiral-Wound gaskets.



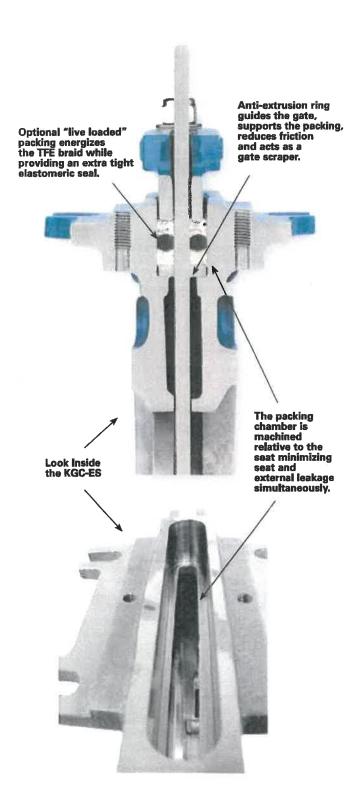
DeZURIK Exclusive Premium Packing System Ensures Long-Life by Sealing, Scraping and Supporting

DeZURIK KGC-ES Valves have a unique packing system that ensures a long-life tight seal with minimal packing gland pressure. The Premium Packing System is available for general, moderate, severe, and high temperature applications. The machined packing chamber, rounded gate edge, and Anti-Extrusion Ring form the base. The system is completed by careful selection of the packing material. Temperature, pH, and media properties will determine the most suitable packing option. KGC-ES valves can be re-packed without being removed from the pipeline.





KGC-ES



Test Data Proves - the "premium packing system" requires fewer packing adjustments and provides extended service life.

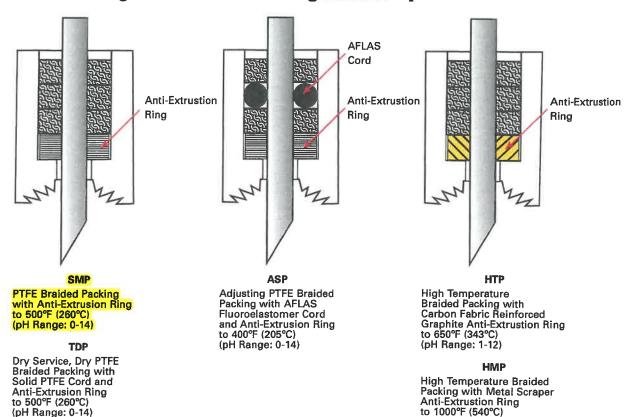
Putting "The Premium Packing System" To Work

The KGC-ES packing system includes a number of features that:

- Extend service life
- Reduce external leakage
- Minimize friction and actuator thrust required
- Require fewer packing adjustments
- Ensure alignment of the gate
- Allow field replacement of packing

(pH Range: 3-10)

High Performance Packing Material Options



FGP

Food Grade Service with Anti-Extrusion Ring to 450°F (232°C) (pH Range: 3-11)

Application Factors That Affect Your Packing Selection For Optimal Sealing

- Compatibility with process media
 - Wet or dry application
 - Food grade or non food grade
 - Life cycle stroke frequency
- Temperature
- pH Acid-Base level
- Scaling or crystallization on gate

- Sealing
 - Energized AFLAS Fluroelastomer Cord in ASP Packing will keep pressure on the packing material to maximize seal
 - Adjustable Packing Gland will renew and compress the packing to seal the valve
- Scraping
 - Anti-Extrusion Ring functions as a gate scraper, preventing process media from entering packing chamber.
- Supporting
 - Anti-Extrusion Ring supports packing, keeps packing from extruding between body and gate, and also maintains gate alignment to maximize sealing performance

Seat Options

Both metal and resilient seated valves are offered in a 100%, round port design. The integral metal seated or the replaceable 17-4 PH Stainless Steel H900 Heat Treated version is available with shutoff capability exceeding current MSS-SP81 standards.

Resilient Seated Valves

Resilient seated valves are available for applications where drip-tight shutoff is required. Unlike valves which use an o-ring seal, DeZURIK KGC-ES Valves have a replaceable resilient seat designed especially for knife gate valve applications. The resilient seat material is molded on three sides of the stainless steel seat ring. When the valve is closed, the gate is pushed against the seat and held in place by the gate jams. When the valve is open, the gate moves away from the seat, allowing clearance, which prevents seat damage and reduces operating force.

A variety of seat materials are available.

Options include:

CR - Chloroprene

NBR - Acrylonitrile-Butadienne

EPDM - Terplymer of Ethylene, Propylene and a Diene

FKM - Fluro Rubber

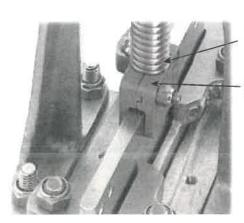
CRW - Chloroprene, off white

PTFE - Polytetrafluoroethylene, white

Reinforced PTFE - Polytetrafluoroethylene

Low Rim-Pull Force

A strong investment cast clip complements KGC-ES's robust construction. The single lead threads on the manual stem result in a lower required handwheel rim-pull force.



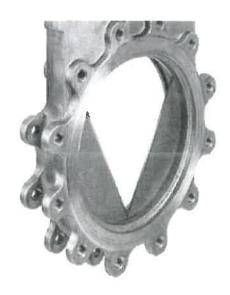
The stem has single lead threads to maximize mechanical advantage

Strong Investment Cast Connection



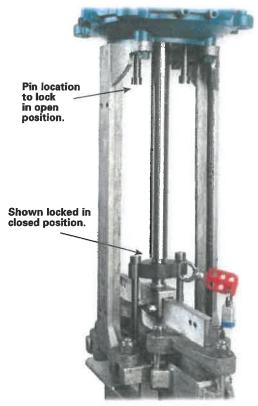
V-Orifice Design for Reliable Throttling and Modulation Control

An integral metal-seated V-port design is also available for reliable throttling control of thick slurries including paper stock. The constant V-orifice is maintained from open valve position to closed to prevent bridging or plugging and to ensure maximum control accuracy. Other orifice shapes available upon request.



Lockout Option

KGC-ES provides the latest in lockout design technology to protect both people and the environment. Unique designs for manual and automated models are available. The lockout collar for the automated models allows fine adjustment to ensure tight shutoff and maximum opening position. Lockouts are rated to withstand the maximum output of the actuators.



Cylinder Lockout Position



Handwheel Lockout Option

Actuators

- Handwheels
- Chainwheels
- Levers
- Bevel Gears
- Pneumatic Cylinders
- Hydraulic Cylinders
- Electric Motors

Accessories

A variety of accessories are offered as standard, including handwheel extensions, floorstands and a variety of cylinder actuator accessories for customizing the valve/actuator package to meet specific application requirements.

Options

DeZURIK Cast Knife Gate Valves may be ordered with the following options to meet your application requirements:

- Purge port connections
- Corrosion resistant cylinder actuator materials
- Lockouts
- Hardened/removable seats
- Hardened gates
- Bonnets

Sub-Regional WRP Projects Sub Regional WRP Projects





COH - Fiberglass Double Door Inactive Leaf Flush Bolt & Astragal

Type:

RFC - Request for Change

Contract: Contractor:

10943 - Hesperia W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - Hesperia

Submitted:

01/09/2018

Submitted To:

Victor Valley Wastewater

Reclamation Authority,W M Lyles Co

Status: **Priority:** Pending High

Pending On Org:

Victor Valley Wastewater

Reclamation Authority

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

01/09/2018

Contractor's PCO #:

Reason:

Unforeseen / Changed Site Conditions

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

769,284.22

Amount Added: .

1,052.02

New Approved Amount:

770,336.24

Current Contract Duration:

821 0

Days Added: **New Contract Duration:**

821

Budget:

Funding:

Cost Item:

Proposed Design Change Summary:

The large fiber glass double doors, Door-42-Fine Screens Room and Door-45-Chemical Feed Room for a total of 2-units are susceptible to misalignment becoming unlatched in high winds.

Please provide:

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Change the bottom flush bolt(s) to a manual type (Rockwood 555) to keep the inactive leaf secured until opening of this door is required. Install a lock astragal (Rockwood 320CL) on the active door to prevent the door from passing too far past the inactive door.

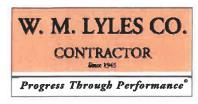
Locations

Element B1 - Hesperia WRP - Vol-05 - 02 - Chemical Feed Room

Element B1 - Hesperia WRP - Vol-05 - 01 - Influent Screening

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	imated Cost	%	Adjusted Cost
			Change	70	Change
1	Labor	\$	-		\$ -
2	Materials	\$	-		\$ -
3	Equipment	\$	-		\$ -
					\$ -
	Total	\$	-		\$ -
	Markup	\$	-	15%	\$ -
Subs	Subtotal	\$	-		\$ -
4	Accurate Door Solutions	\$	999.87		\$ 861.5
		\$			\$ -
		\$			\$ -
		\$	-		\$ -
	Subcontract Subtotal	\$	999.87		\$ 861.9
	Subontractro Bond & Ins	Ś	10.00	1%	
	Substitution Solid & IIIS		25.00	1,0	
	Subtatal	ċ	1 000 97		Ć 951.6
	Subtotal		1,009.87		\$ 861.9
	GC-Subcontractor Markup	\$	50.49	5%	\$ 43.1
	Total	\$	1,060.37		\$ 905.0
	Subcontractor OH&P			15%	\$ 129.2
	Subcontractor Bond & Ins			1%	
	GC Bond & Ins	\$	10.60		\$ 9.0
	Total	\$	1,070.97		\$ 1,052.0



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com
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January 22, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-95 Fiberglass Door Fix

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to change the bottom automatic flush bolt to a manual type and add a lock astragal to not allow the active door to pass the inactive door at the Screening and Chemical Room. WML deems this change to be additional work and the cost for this change is \$1,052.02. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

Corporate Office: 1250 W. Olive, Fresno, CA 93728 Telephone: (559) 441-1900 • Fax (559) 487-7958

ACCURATE DOOR SOLUTIONS INC.

17861 Georgetown Lane Huntington Beach, CA 92647 Ph: 714-842-0299 F: 714-842-0229 Invoice

Date

Invoice #

1/19/2018

11527

Bill To

W.M. Lyles PO Box 4377 Fresno, CA 93744 Ship To

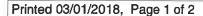
W.M. Lyles Co. Sub-Regional WRP 21028 Otoe Road Apple Valley, CA 92307 Grant Gourley 951-760-4169

				Oldi	(Coursey 931-760	-4107	
P.O. Number	Terms	Rep	Ship	Via	F.O.B.		Project
T1139-29	Net 30	DP	1/17/2018	Our Truck	Jobsite	2141	72-8 Both sites
			scription				Quantity
ADS COR 08 He	esperia & Apple	Valley Sit	tes				
Change Bottom F	lush Bolts to Ro	ckwood 5	55 (per door)				
istall Rockwood	320 Lock Guard	l (per door	r)				
rip charge (per j	obsite)						
	9						
			Solution	- \$1,984.0	00		
	WML Mar WML Bon		- \$99.20 \$20.83				
			2,104.03				
	COH - \$	1.052 (12				
	TOAV -						
					Sales Tax	(7.975.	\$0.00
Payme	nts made with credit	cards are su	bject to additiona	l fees.		(* 101 011	ΨΟ.ΟΟ
	(Cash, Checks and	l Visa Cards	are accepted.)		Total		\$1,984.00

Interest at 11/2% per month but not more than allowed by law will be added on past due accounts. Buyer agrees if collection becomes necessary, buyer shall pay all costs including court costs and reasonable attorney fees.

PCO#96

Sub-Regional WRP Projects Sub Regional WRP Projects





COH - DC-74R Modification to Water Heater Solenoid Valve Control Strategy

Type:

RFC - Request for Change Priority:

Contract: Contractor: 10943 - Hesperia W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - Hesperia

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Submitted:

Status:

Submitted To:

01/11/2018

Pending

Low

W M Lyles Co

Created:

01/11/2018

Contractor's PCO #: 96

Reason:

Contractor Request

Requested By: Contractor

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 769,284,22 3,484.50 Amount Added: **New Approved Amount:** 772,768.72 **Current Contract Duration:** 821 Days Added: 0 **New Contract Duration:** 821

Budget: Funding: Cost Item:

Proposed Design Change Summary:

The control strategy to perform maintenance cleans of the fine screens with hot water was modified allowing additional control for operator staff.

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05 - 01 - Influent Screening

References

Correspondence # 151

DC 74R - Solenoid Valve and Control Strategy Change

Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	imated Cost	%	Α	djusted Cost
item	Description		Change	%		Change
1	Labor	\$	-		\$	-
2	Materials	\$	•		\$	-
3	Equipment	\$	-		\$	-
	Trimax	\$	3,000.00		\$	3,000.0
	Total	\$	3,000.00		\$	3,000.0
	Markup	\$	450.00	15%	\$	450.0
ubs	Subtotal	\$	3,450.00		\$	3,450.0
4	Trimax	\$	-		\$	-
		\$	-		\$	-
		\$			\$	-
		\$	-		\$	
	Subcontract Subtotal					
			•		\$	_
	Subontractro Bond & Ins	\$	•	1%		
	Subtotal	Ś			\$	
	GC-Subcontractor Markup			5%	\$	
	Total	\$	3,450.00		\$	3,450.0
	Subcontractor OH&P		L	15%	\$	•
	Subcontractor Bond & Ins			1%	\$	
	GC Bond & Ins	\$	34.50	1%	\$	34.5
	Total	\$	3,484.50		\$	3,484.5



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

> www.wmlyles.com An Equal Opportunity Employer

January 12, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH 94 Modify Program for Loop 3101C

COH-096

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC-74R to modify the programming and loop drawings for the cold water supply valve in the Fine Screen Room. WML deems this change to be additional work and received pricing from Trimax. The cost for this change is \$3,484.50. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive

W.M. Lyles Co.



Trimax Systems, Inc. **Change Order Request**

Job Na	me	Customer P.O. Number
VVWR	Subregional Plants	T1139-50
То:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd.	Change Order Request: COR-44
Attn:	San Marcos, CA 92069 Steve Vickers	Date: 7/28/2017
		Reference DC-074R

Descripton:

Modify programs and documents for the following loop changes and additions

LOOP NO. 3101C	Plant Cold Water Supply Solenoid Valve (Reference P&ID 03-N-01)				Page 1 of 1		
	COMPONENT SUMMARY						
Tag Number(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)		
None	N/A	N/A	N/A	CWR	N/A		

FUNCTIONAL DESCRIPTION

A solenoid normally open to plant cold water supply. Operator selects to close valve or have valve remain open on the tocal HMI or SCADA.

SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI

SUMMARY OF PLC AND HMI LOOP FUNCTIONS

Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant cold water supply sciencid valve. In MANUAL mode, operator can issue command to close the sciencid valve to shut off cold water to the screen system in AUTO mode, the PLC shall close this normally open valve when HCC-3101H is called to open.

LOOP FUNCTION DATA SHEET

Hosperia Water Reclamation Plant

LOOP NO. 3161H	Plant Hot Water Supply Sciencid Valve (Reference P&ID 03-N-01)			Page 1 of 1		
COMPONENT SUMMARY						
Tag Number(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)	
None	N/A	N/A	N/A	HWR	N/A	

FUNCTIONAL DESCRIPTION
A solenoid normally closed to plant hot water supply. Operator selects to open valve or have valve remain closed on the local HIMI or SCADA

SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI None

SUMMARY OF PLC AND HMI LOOP FUNCTIONS

Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant not water supply sciencid valve

In MANUAL mode, operator can issue command to open the solenoid valve, allowing hot water to flow to the screen system
In AUTO mode, the operator can make the following selection on the local or SCADA HMI: PLANT WATER ONLY. ONCE A DAY, TWICE A DAY,
CONTINUOUSLY The SCADA system will choose to open solenoid or have solenoid or have solenoid or have operator's selection. In the
PLANT WATER ONLY mode, the solenoid will not open in the ONCE A DAY MODE, the SCADA system will open the solenoid the first time the ontine screen is called to run after an operator adjustable time of day (12:01 am - 11.59 pm) is reached. The solenoid will remain open for an operator adjustable time delay. In the TWICE A DAY MODE, the solenoid will open the first time the on-line screen is called to run after an operator adjustable time of day is reached and again 12 hours later. The same operator setpoint used to govern the open duration during the ONCE A DAY MODE shall be used in the TWICE A DAY MODE. In the CONTINUOUSLY mode, the solenoid will remain open.

INTERLOCKS

Material

Item	Description	Qty	Unit Price	Extended Price
1		0	\$0.00	\$0.00
2		0	\$0.00	\$0.00
		Subtotal:		\$0.00
		Markup:	15.00%	50.00
		Sales w/o Tax:		\$0.00
		Sales Tay:	7 750/	60.00

Non-	Taxab	ile L	abor

					Extended
Item	Description	Resource	Hrs	Rate	Price

Total Material Cost:

\$0.00



Trimax Systems, Inc. Change Order Request

ubregional Plants Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	T1139-50 Change	Order Request:	COR-44	
559 N. Twin Oaks Valley Rd.	Change	Order Request:	COR-44	
	1	Date:	7/28/2017	
Steve Vickers	Reference	DC-074R		
Review, plan and coordinate changes - Both Sites	Prog	2.00	160.00	\$320.00
Update panel I/O drawings - Both Sites	Des Eng	2.00	160.00	\$320.00
O&M Manual Modifications HWRP	Des Eng	2.00	160.00	\$320.00
O&M Manual Modifications AVWRP	Des Eng	1.00	160.00	\$160.00
Update loop drawings HWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00
Update loop drawings AVWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00
Add PLC program for HWRP	Prog	6.00	160.00	\$960.00
Add PLC program for AVWRP	Prog	4.00	160.00	\$640.00
Add HMI program for HWRP	Prog	1.50	160.00	\$240.00
Add HMI program for AVWRP	Prog	1.50	160.00	\$240.00
Add SCADA app for HWRP	Prog	1.50	160.00	\$240.00
Add SCADA app for AVWRP	Prog	1.50	160.00	\$240.00
oop testing - Both Sites	Fld Eng	4.00	110.00	\$440.00
Operational testing - Both Sites	Prog	4.00	160.00	\$640.00
	Update panel I/O drawings - Both Sites D&M Manual Modifications HWRP D&M Manual Modifications AVWRP Update loop drawings HWRP (1 dwg) Update loop drawings AVWRP (1 dwg) Add PLC program for HWRP Add PLC program for AVWRP Add HMI program for HWRP Add HMI program for AVWRP Add SCADA app for HWRP Add SCADA app for HWRP Add SCADA app for AVWRP	Update panel I/O drawings - Both Sites Des Eng Des M Manual Modifications HWRP Des Eng Des M Manual Modifications AVWRP Des Eng Dydate loop drawings HWRP (1 dwg) Des Eng Dydate loop drawings AVWRP (1 dwg) Des Eng Prog Add PLC program for HWRP Prog Add HMI program for AVWRP Prog Add HMI program for AVWRP Prog Add SCADA app for HWRP Prog Add SCADA app for AVWRP Prog Des Eng De	Description Description	Description

Total Non-Taxable Labor Cost:

37.00

\$5,720.00

Other Direct Costs

					Extended
Item	Description	RT Miles	Qty	Unit Price	Price
1	Mileage		1	\$0.62	\$0.00
2	Freight		1	\$0.00	\$0.00
3	Delivery to job site		1		\$0.00
4	Lodging				50.00
5	Per Diem			\$75.00	\$0.00
_			Total O	ther Direct Costs:	\$0.00

\$5,720.00

Complete price for the scope of work described herein:

TOAV Cost - \$2,720.00 COH Cost - \$3,000.00 WML Markup - \$408.00 WML Markup - \$450.00 WML Bond - \$31.28 WML Bond - \$34.50 WML Total - \$3,159.28 WML Total - \$3,484.50



Trimax Systems, Inc. Change Order Request

Job Name VVWRA Subregional Plants		Customer P.O. Number		
		T1139-50		
To: Attn:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069 Steve Vickers	Change Order Request: COR-44 Date: 7/28/2017		
		Reference DC-074R		

Exclusions:

- 1. Mounting stanchion, mounting plate.
- 2. Materials for installation.
- 3. Additional PLC I/O modules to accommodate new I/O.
- 4. Installation of furnished equipment.

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Marty McLaughlin Project Manager Trimax Systems, Inc.

Cell Ph. - 714-595-1269 brianb Otrimaxsystems.com

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



COH - Process Blower Floor Supported Intake Pipe Support

Type:

RFC - Request for Change

Contract:

10943 - Hesperia

Contractor:

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10943 - Hesperia Priority:

Submitted:

Submitted To:

02/08/2018

itted To: EADOC-VVWRA-Sub-R -

Alton Anderson, VVWRA-Sub-R

- Ted Luiten, W M Lyles Co

Revision Date:

Status:

Pending High

Internal Priority:

High

Pending On User:

EADOC-VVWRA-Sub-R -

Alton Anderson

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, W M

Lyles Co

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/01/2018

Contractor's PCO #: 97

Reason:

Unforeseen / Changed Site Conditions

Requested By: Owner

Change Date:

Schedule ID: Not to Exceed \$:

0.00

Set:

Approved Thru Last:

769,284.22

Amount Added:

0.00

New Approved Amount: Current Contract Duration: 769,284.22 821

Days Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Process Blower generate a low frequency wave, which is currently resonating into floor slab via the hanger pipe support system. This annoying vibration and noise has been detected when blower #1 is in operation and in operation at different speeds of the blower. The vibration and annoying noise is most disturbing in the stairwell and air-plenum room of the building.

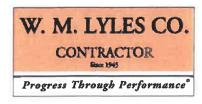
Please provide a floor mounted pipe support with six inch diameter post support bolted to the floor of the building with a B-Line, type B3093 pipe saddle and ¼" rubber spacer between the pipe and saddle. The existing clevis hanger support w/bracing to remain in place for seismic vertical and lateral support (loose fit nuts on vertical all-thread rod) see figure attached. Location, each blower at northwest corner of blower

Please provide all materials and labor to install a floor mounted pipe support to be mounted to the foundation floor of the process blower equipment room.

Files		
Process Blower Vibration - Pipe	132.86 KB	
Support.pdf		

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

tem	Description	Es	timated Cost	02	Adjusted Cost
tem	Description		Change	%	Change
1	Labor	\$	3,939.35		\$ 3,939.3
2	Materials	\$	5,129.00		\$ 5,129.0
3	Equipment	\$	323.40		\$ 323.4
					\$ -
	Total	\$	9,391.75		\$ 9,391.7
	Markup	\$	1,408.76	15%	\$ 1,408.70
ubs	Subtotal	\$	10,800.51		\$ 10,800.5
4		\$	-		\$ •
		\$	-		\$
		\$	_		\$
		\$			\$
					-
	Subcontract Subtotal	Ş	-		\$ -
	Subontractro Bond & Ins	\$	-	1%	
	Subtotal	\$	-		\$
	GC-Subcontractor Markup	\$		5%	\$
	Total	\$	10,800.51		\$ 10,800.51
	Subcontractor OH&P			15%	\$ -
	Subcontractor Bond & Ins			1%	\$ -
	GC Bond & Ins	\$	108.01	1%	\$ 108.01
	Total	\$	10,908.52		\$ 10,908.52



California Contractor's License No. 422390

Southern Division - Ternecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

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February 8, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-97 Added Pipe Supports for Aer Blower Piping

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to add three pipe supports for on the inlet blower piping on the Aeration Blowers. WML deems this change to be additional work and the cost for this change is \$10,969. The breakdown of this amount is attached.

\$10,908,52

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive

W.M. Lyles Co.

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

Date: 8-Feb-18

Reference #:

Alton Anderson

Attention:

VVWRA Subregional Plants Project

Project:

Description:

COH-97 Pipe Supports on Aeration Blower

		Onit	Unit Total MH MH Cost Total MH Cost Eq. Cost Material	Total MH Cos	Eq. Cost	Material	Subconf.	Total Cost	Cost
	COH-97 Pipe Supports on Aeration Blower	rs	- 99	\$ 3,939.38	5 \$ 323.40	3,939.35 \$ 323.40 \$ 5,129.00		49	9.391 75
								A	•
								-	
		-							
l otal Costs			26	\$ 3,939.35	\$ 323,40	3,939.35 \$ 323,40 \$ 5,129.00	49	69	9 391 75

Subtotal		69	9,391.75
Mark-up - Labor	15%	49	590.90
Mark-up - Equipment	15%	↔	48.51
Mark-up - Materials	15%	€9	769.35
Mark-up - Subcontractor	2%	€9	•
Bond	1%	()	108.01
Total This Change Order			40 000 00

Comments:

VVWRA Subregional Plants Project

TOAV-109 Pipe Supports on Aeration Blower

2/8/2018

A. Labor	Description			Op FM	Ор	Lab FM	Lab	Carp	CM			
	Description			Op. III		2						
nstall Suppor	rts			8			16	32				
				-								
							_		-			
					1							
					•	_	40	20	_			•
				8	0	0	16	32	0	1	0	0
<u>Name</u>		Rate		Hours		Extension						
Op FM		\$84.63		8		\$677.02						
Ор		\$81.99		0		\$0.00						
Lab FM		\$67,55		0		\$0,00						
Lab		\$65,23 \$69.33		16 32		\$1,043.61 \$2,218.72						
Carp CM		\$67.98		0		\$0.00						
0)	\$0.00		ő		\$0.00						
0	D	\$0.00		0		\$0.00						
0		\$0.00		0		\$0.00						
0		\$0.00		0		\$0.00						
0	,	\$0,00		56		\$0.00						
					ai Labor =	\$3,939,35						
3. Equipme												
	Description			15,205	18.284	15.184	18,254	35.066	18.278	31,012	30.045	30,628
Pickup				12								
Tottop							-					
					1	-						
									-	-		
				-					_			
				2.								
				12	D	0	0	0	0	0	0	0
Museekee	Description			Rate	Hours	Extension						
Number 15,205	Truck			\$26,95		\$323.40						
18.284	Yard Truck			\$26.95	0	\$0.00						
15,184	Truck			\$26.95		\$0.00						
18,254	Truck			\$26,95	0	\$0.00						
35,066	Loader			\$142.00	D	\$0.00						
18.278	Truck John Deere Backhoe			\$26.95 \$58.53	0	\$0.00 \$0.00						
30,045 30.628	CAT Rental Backhoe			\$39.56		\$0.00						
31.012	Skidsteer			\$30,00	ő	\$0.00						
0.00-1.11				Total Equipme	ent =	\$323.40						
C. Material	5	Quantity	Unit	Price		Extension						
						\$0,00						
	I _	3	EA	\$1,493.00		\$4,479.00						
		12	EA	\$25.00		\$300.00						
Anchor Bolts		1	LS LS	\$150.00 \$200.00		\$150.00 \$200,00						
nchor Bolts Frout		1	LO	\$200,00		\$ZUU,00						
Anchor Bolts Grout						\$0.00						
Pipe Supports Anchor Botts Grout Neoprene												
Anchor Bolts Grout				Total Material	-	5,129.00						
Anchor Bolts Grout	tractor	Outantibe	l le ^{ta}									
Anchor Bolts Grout Veoprene	tractor	Quantity	<u>Unit</u>	Total Material		Extension						
Anchor Bolts Grout Neoprene	tractor	Quantity	<u>Unit</u>									
Anchor Bolts Grout Neoprene	tractor	Quantity	<u>Unit</u>			Extension \$0.00 \$0.00 \$0.00						
Anchor Bolts Grout Neoprene	tractor	Quantity	<u>Unit</u>			Extension \$0.00 \$0.00						

ADJUSTA		SADDLE S	SUPPORT NCHES	SCHEDU	-E
SIZE OF SUPPORTED PIPE	PIPE SIZE	PIPE SIZE	"c"	"I MINIMUM	O" MAXIMUM
2 1/2 *	2 1/2	1 1/2	9	8	13
3	2 1/2	1 1/2	9	8 1/2	13 1/2
3 1/2	2 1/2	1 1/2	9	8 1/2	13 1/2
4	3	2 1/2	9	9 1/2	14
6	3	2 1/2	9	10 1/2	15 1/2
8	3	2 1/2	9	11 1/2	16 1/2
10	3	2 1/2	9	13 1/2	18 1/2
12	3	2 1/2	9	15	19 1/2
14	4	3	11	16 1/2	20 1/2
16	4	3	11	17 1/2	22 1/2
18	6	3 1/2	13 1/2	19 1/2	24
→ 20	6	3 1/2	13 1/2	21	25 1/2
24	6	4	13 1/2	23 1/2	28 1/2
30	6	4	13 1/2	27	31 1/2
32	6	4	13 1/2	28 1/2	32 1/2
36	6	4	13 1/2	30 1/2	34 1/2

6 EA 20" Stl Pipe 12' Tall

PROVE 3

ROUND STATE STA

PROVIDE CLAMP WITH SUPPORT

ROUND ALL SHARP CORNERS TO 1/2" RADIUS

"B" SCHEDULE 40 STL PIPE

LENGTH AND THREADS TO ALLOW MIN AND MAX DIMENSION SHOWN. USE STRAIGHT THREADS.

"A" SCHEDULE 40 STL PIPE

4 - 3/4"ø SST CONC ANCHORS

THREADED 150 LB REDUCING FLANGE

1" NON-SHRINK GROUT

NOTES:

- HOT-DIP GALVANIZE SUPPORT AFTER FABRICATION.
- 2. * USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2"ø
- 3. HEIGHT SHOULD NOT EXCEED 3 FEET WITHOUT PROVISIONS FOR LATERAL BRACING. FOR SUCH PROVISIONS SEE MECHANICAL DRAWINGS



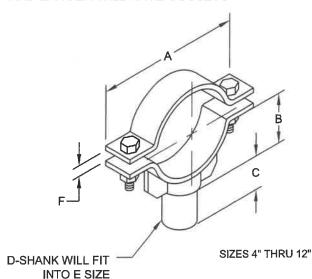
SIZE RANGE-4" THRU 36" PIPE

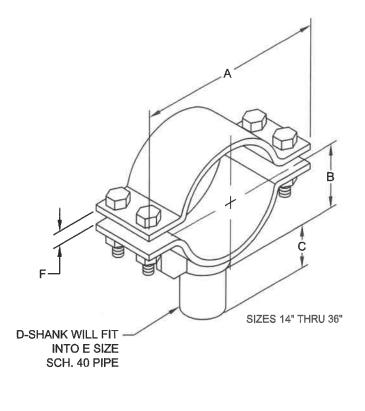
SERVICE-DESIGNED FOR SUPPORTING PIPE FROM FLOOR STANCHION. TOP CLAMP HOLDS PIPE SECURELY IN PLACE.

MATERIAL-CARBON STEEL, T-304 AND T-316 FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

8" AND LARGER WILL HAVE GUSSETS

SCH. 40 PIPE





,			DIME	NSIONS				
PIPE SIZE	Α	В	С	D	Ε	F	BOLT SIZE	
4"	7"	3-13/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"	
5"	8-5/8"	4-3/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"	
6"	11"	4-7/8"	2"	2-3/8"	2-1/2"	7/8"	5/8"	
8"	13-7/8"	6-15/16"	2"	2-3/8"	2-1/2"	1"	5/8"	_
10"	16"	7-15/16"	2"	2-3/8"	2-1/2"	1"	3/4"	
12"	18-1/4"	9-1/8"	3"	2-3/8"	2-1/2"	1"	3/4"	
14"	19-3/4"	10-1/2"	3"	2-7/8"	3"	1-1/8"	3/4"	
16"	22-3/4"	11-1/2"	3"	2-7/8"	3"	1-1/8"	3/4"	
18"	25-1/16"	13-1/2"	4"	3-3/4"	4"	1-1/4"	3/4"	
20"	27-3/4"	14-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"	
22"	29-3/4"	15-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"	
24"	32-3/8"	17-1/2"	4"	3-3/4"	4"	1-5/8"	7/8"	
26"	35"	18-1/2"	4"	3-3/4"	4"	2"	7/8"	_
30"	39-3/8"	20-5/8"	4"	3-3/4"	4"	2"	7/8"	
32"	41-3/8"	21-5/8"	4"	3-3/4"	4"	2"	7/8"	
36"	45-3/8"	23-5/8"	4"	3-3/4"	4"	2"	7/8"	



TRIPAC FIG. TP-816 PIPE STAND TRIPAC FIG. TP-816T THREADED PIPE STAND

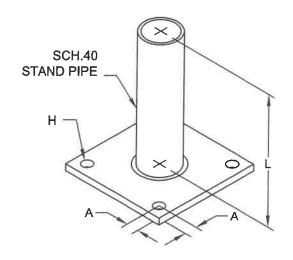
SIZE RANGE-1" THRU 8" PIPE

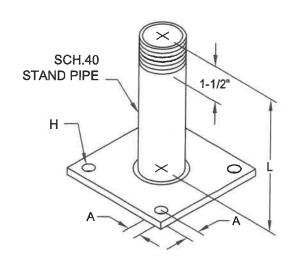
SERVICE-DESIGNED TO PROVIDE A SUPPORT BASE FOR FLOOR STANCHION SUPPORT. USE WITH SADDLES TP-811, TP-814, TP-817, TP-818 AND WHEN VERTICAL ADJUSTMENT IS NEEDED USE TP-819 PIPE ADJUSTER.

MATERIAL-CARBON STEEL, T-304 AND T-316

FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

"L" DIMENSION FROM TOP OF PIPE TO TOP OF PLATE





STAND PIPE SIZE	A	н	PLATE SIZE	APPROX WT./100
1"	1"	1/2"	6" SQ.	423
1-1/4"	1"	1/2"	6" SQ.	482
1-1/2"	1"	1/2"	6" SQ.	525
2"	1"	1/2"	6" SQ.	748
2-1/2"	1-1/8"	5/8"	8" SQ.	1377
3"	1-1/8"	5/8"	9" SQ.	1555
4"	1-1/4"	3/4"	11" SQ.	2514
6"	1-1/2"	7/8"	14" SQ.	4469
8"	1-1/2"	1"	16" SQ.	10120

^{*} WEIGHT IS BASED ON "L" DIMENSION OF 1'-0"



TRIPAC FIG. TP-819 THREADED PIPE ADJUSTER

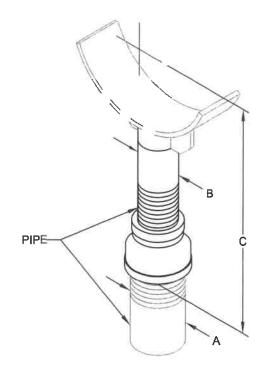
SIZE RANGE-FOR USE WITH 2-1/2" THRU 36" PIPE

SERVICE-DESIGNED TO PROVIDE UP TO 4-1/2" OF VERTICAL ADJUSTMENT AFTER INSTALLATION. TYPICALLY USED IN CONJUCTION WITH TP-816T PIPE STAND AND TP-811, TP-814, TP-817 & TP-818 PIPE SADDLES.

MATERIAL-CARBON STEEL, T-304 AND T-316

FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

COMPLIES WITH FEDERAL SPECIFICATION WW-H-171-E (TYPE #39 2-1/2" THRU 36") AND MANUFACTURERS STANDARDIZATION SOCIETY MSS AND SP-69 (TYPE #38), WHEN USED WITH PIPE STAND AND PIPE SADDLE.



DIME	NSI	ONS	& V	VEIGH	HTS

ADJUSTER SIZE	PIPE SIZE	MAX. O.D. OF PIPE	A PIPE SIZE	B PIPE SIZE	C MIN.	C MAX.	APPROX. WT./100
1-1/2" x 2-1/2"	2-1/2"	2-7/8"	2-1/2"	1-1/2"	7"	11-1/2"	304
1-1/2" x 2-1/2"	3"	3-1/2"	2-1/2"	1-1/2"	7-5/16"	11-13/16"	304
1-1/2" x 2-1/2"	3-1/2"	4"	2-1/2"	1-1/2"	7-9/16"	12-1/16"	304
2-1/2 x 3"	4"	4-7/8"	3"	2-1/2"	10-1/4"	14-3/4"	793
2-1/2 x 3"	5"	5-5/8"	3"	2-1/2"	11-1/16"	15-9/16"	793
2-1/2 x 3"	6"	7"	3"	2-1/2"	11-9/16"	16-1/16"	793
2-1/2 x 3"	8"	9-1/8"	3"	2-1/2"	13-9/16"	18-1/16"	793
2-1/2 x 3"	10"	11-1/8"	3"	2-1/2"	14-5/8"	19-1/8"	793
2-1/2 x 3"	12"	13-1/2"	3"	2-1/2"	15-5/8"	20-1/8"	793
3" x 4"	14"	14"	4"	3"	18-7/8"	23-3/8"	1220
3" x 4"	16"	16"	4"	3"	19-7/8"	24-3/8"	1220
4" x 6"	18"	18"	6"	4"	22-1/4"	26-3/4"	2248
4" x 6"	20"	20"	6"	4"	23-1/4"	27-3/4"	2248
4" x 6"	22"	22"	6"	4"	24-1/4"	28-3/4"	2248
4" x 6"	24"	24"	6"	4"	26-1/2"	31"	2248
4" x 6"	26"	26"	6"	4"	27-1/2"	32"	2248
4" x 6"	30"	30"	6"	4"	29-5/8"	24-1/8"	2248
4" x 6"	32"	32"	6"	4"	30-5/8"	35-1/8"	2248
4" x 6"	36"	36"	6"	4"	32-5/8"	37-1/8"	2248



Sub-Regional WRP Projects Sub Regional WRP Projects





COH - Bid Item B15 Creid for

Unused Permit Fees

RFC - Request for Change

Contract:

Type:

10943 - Hesperia

Contractor:

W M Lyles Co

ISO Currency Code:
Purchase Order:

USD

Contract # 10943 - Hesperi Pending On Org:

Submitted:

Submitted To:

02/27/2018

MWH Constructors, Victor Valley

Wastewater Reclamation Authority,W

M Lyles Co

Status:

Pending

Priority:

Low

Victor Valley Wastewater

Reclamation Authority, W M Lyles Co

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/27/2018

Contractor's PCO #:

Reason:

Owner Request

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:
Amount Added:

769,284.22 -10,000.00

New Approved Amount:
Current Contract Duration:

759,284.22 821

Days Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$10,000 for City of Hesperia Permit Fees. This credit change order is for the amount of \$10,000.00 of unused funds.

P	C	0	#	98
	\mathbf{u}	~	77	JU

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

References

Specification 01210 Allowances

Published

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO#99

Sub-Regional WRP Projects
Sub Regional WRP Projects





COH - Credit for Unused Allowance - Line Item B16 MBR Electrical

Type: RFC - Request for Change

Contract: 10943 - Hesperia

Contractor: W M Lyles Co

ISO Currency Code: USD

Purchase Order: Contract # 10943 - Hesperi Pending On Org:

Submitted: 02/27/2018

Submitted To: MWH Constructors, Victor Valley

Wastewater Reclamation Authority, W

M Lyles Co

Status: Pending

Priority: Low

Pending On Org: Victor Valley Wastewater

Reclamation Authority, W M Lyles Co

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/27/2018

Contractor's PCO #:

Reason:

Owner Request

Requested By: Owner

Change Date: Schedule ID:

Scriedule ID.

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 769,284.22
Amount Added: -5,439.95
New Approved Amount: 763,844.27
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget : Funding:

Cost Item:

Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$50,000 for the installation of electrical related equipment and conduit in the membrane basin area. This credit change order is for the amount of \$5,439.95 of unused funds.

P	C	O	#	99
	\mathbf{v}	v	П	JJ

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

References

Specification 01210 Allowances

Published

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Sub-Regional WRP Projects Sub Regional WRP Projects





COH - Cre	edit for Unused Allowance	ļ
- Line Iter	n C1 Owners Reserve	
Allowanc	е	

Type:

RFC - Request for Change

Contract:

10943 - Hesperia

Contractor:

W M Lyles Co

ISO Currency Code: Purchase Order:

USD

Contract # 10943 - Hesperia Priority:

Submitted:

Submitted To:

02/27/2018

MWH Constructors, Victor

Valley Wastewater

Reclamation Authority, W M

Lyles Co

Revision Date:

Status:

Pending

Low **Pending On Org:**

Victor Valley Wastewater

Reclamation Authority, W M

Lyles Co

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/27/2018

Contractor's PCO #:

Reason:

Owner Request

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: Amount Added:

769,284.22 -928.96

New Approved Amount:

768,355.26

Current Contract Duration: Days Added:

821

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Sub-Regional WRP Projects Sub Regional WRP Projects

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Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$500,000 for miscellaneous work required during the completion of the project to be used at the discretion of the Owner and Owner's representatives. This credit change order is for the amount of \$928.96 of unused funds

References	
Specification 01210 Allowances	Published

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners

15 March 2018

FROM:

Logan Olds, General Manager

TO:

Board of Commissioners

SUBJECT:

Recommendation to approve FINAL Change Order No. 8 for the Apple Valley

Subregional Construction Project Contract #10942 with W.M. Lyles Co. of a net

increase in the amount of \$183,489.01,

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the approval of FINAL Change Order No. 8 for the Apple Valley Subregional Construction Contract #10942 with W.M. Lyles Co. as dated February 28, 2018 in a net increase in the contract by the amount of \$183,489.01, for a contract total of \$33,672,671.34. There is no time impact in this Change Order. The proposed Change Order #8 is attached.

REVIEW BY OTHERS

This recommendation has been prepared by Logan Olds, General Manager and reviewed by the VVWRA Engineering Committee including Tim Millington, David Burket, Brian Gengler and Greg Snyder.

BACKGROUND INFORMATION

As requested by the Board all potential change orders for the Subregional Project are taken to the VVWRA Engineering Committee for review and comment. Upon review by the VVWRA Engineering Committee on March 5, 2018 it was the consensus of the members present to place this staff recommendation for Change Order No. 8 before the VVWRA Board for approval.

The Subregional Project in Apple Valley has completed construction. The Apple Valley portion of the overall project has reached Substantial Completion and VVWRA staff are currently performing operational testing. The total construction change order percentage for the Apple Valley subregional is 3.05%; this is quite good when industry standard is 10%.

This Change Order No. 8 contains multiple items. The numbering system of the items is based on the potential change order (PCO) tracking. Backup material is attached to the change order for each of the items. The original contract and Change Orders are shown in the following Table.

Change Order	Amount	% CO
1	0	0%
2	\$288,062.22	0.88%
3	(\$48,730.95)	-0.15%
4	\$205,409.03	0.63%
5	\$230,957.75	0.71%
6	\$49,806.88	0.15%
7	\$87,677.40	0.27%
8	\$183,489.01	0.56%
Total	\$996,671.34	3.05%

This Change Order No. 7 deals with electrical items and staff requests for the WRP. Multiple RFI and Design Clarifications have been communicated through the construction team of VVWRA, Design Engineers, CM Consultant, General Contractor, and Sub-Contractors. Items come from conflicting information in the Bid Documents, requests from VVWRA Operations and Maintenance, and input for a better system from the Contractor. A summary of the Change Order Items follows:

Item Number	Description		Amount
90	TOAV - DC 122 VFD Wiring Modifications	\$	13,426.11
91	TOAV - DC 114 - MBR Instrument Air Compressor Electrical Changes	\$	(1,036.50)
96	TOAV - DC 123 Damper & Make Up Air Unit Controls & FM 200	\$	34,716.62
97	TOAV - Chlorination or Existing Piping Off Site	\$	9,834.31
99	TOAV - Modifications to Process Drain Pump Station Level Indicating Transmitter	\$	12,194.94
103R	TOAV - Provide water for all testing at the WRP	\$	27,765.10
104	TOAV - Area Remediation		35,545.00
105	TOAV - DC-43R Modification to Exhaust Fan Control Strategy		12,999.32
106	TOAV - MBR Basin Drain 16" Knife Gate Valve Body Change		22,330.58
107	TOAV - Fiberglass Double Door Inactive Leaf Flush Bolt & Astragal		1,052.02
108	TOAV - DC-74R Modification to Water Heater Solenoid Valve Control Strategy	\$	3,159.28
109	TOAV - Process Blower Intake Pipe Supports		10,908.52
110	TOAV - Bid Item A14 Credit Unused Allowance - Line Item A14 MBR Electrical		(5,439.95)
111	TOAV - Bid Item C1 Credit Unused Allowance - Line Item C1 Owners Reserve		(942.21)
112	TOAV - Percolation Pond Programming	\$	6,975.87

TOTAL \$ 183,489.01

The approved SRF loan includes contingency for this change order in the amount of \$2,003,280.00 of which \$1,159,562.00 has been requested to date. Of the approved state revolving fund change order contingency there will be a remaining balance of approximately \$660,229.00 after this change order. VVWRA staff has been working with SRF staff to reallocate those remaining funds towards soft costs. As of 31 January 2018 there remained an additional \$3,659,438.00 to finalize costs (construction, construction management and engineering services) associated with the Apple Valley subregional project.

The total of these items is a net increase of \$189,489.01 and no impact to the project construction time. The Change Order No 8 is attached with supporting documentation. Staff has reviewed and agrees with the items within this Change Order. The VVWRA Engineering Committee and VVWRA Staff met on October 5, 2017 to review the list of Potential Change Orders. Staff presented a summary and responded to the committee questions. The Committee evaluated the material and agreed that this Change Order 8 be presented to the Board for approval. As mentioned previously the project is well under a 10% construction change order contingency.

Staff recommends that the Board authorize the approval of Change Order No. 8 Apple Valley Subregional Construction Contract #10943 with W.M. Lyles Co. as dated 28 February 2018.

FINANCIAL IMPACT

Fund 01 or 07				
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)				
Transfer Needed due to Insufficient Budget	Y[]		N []
If Transfer, from Which Account String or Reserve				
Budgeted Amount Where Money Comes from				
Budget Remaining after the Recommendation				
Outside Funding Source if applicable	\$			
Original Contract Amount	\$			
Change Order	Y[]	1	N [E.
Contract after Change	\$			

Finance Approval:

Fund 09		
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	09-55-500- 9000, C103	
Transfer Needed due to Insufficient Budget Y[]		
If Transfer, from Which Account String or Reserve		
Budgeted Amount Where Money Comes from	SRF Loan	
Budget Remaining after the Recommendation	\$0	
Outside Funding Source	\$34,673,280.00	
Original Contract Amount	\$32,670,000.00	
Change Order	Y[x] N[]	
Contract after Change	\$33,672,671.34	

The expense is an increase of \$189,489.01 to FY 17/18 Budget Account, 09-55-500-9000, C103.

RELATED IMPACTS

The approved SRF loan includes contingency for this change order.

Sub-Regional WRP Projects Sub Regional WRP Projects

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TOAV - DC 122 VFD Wiring

Modifications

Type: RFC - Request for Change

Contract: 10942 - Apple Valley **Contractor:** W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10942 - Apple Valitatus:

Priority:

Submitted:

09/27/2017

Submitted To: EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R - Charles Reynolds, EADOC-VVWRA -Sub-R - Grant Gourley, EADOC

-VVWRA-Sub-R - Lynene Voelker

ittaytus:

Pending High

Internal Priority:

High

Pending On User: EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Lynene Voelker

Pending On Org: Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

09/27/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date:

Schedule ID: Not to Exceed \$:

0.00

Set:

Approved Thru Last:
Amount Added:

725,504.93 13,550.54

New Approved Amount:

739,055.47

Current Contract Duration: Days Added:

821 0

New Contract Duration:

821

Budget :

Funding: Cost Item:

^{m:} 17-4

eadoc

Sub-Regional WRP Projects Sub Regional WRP Projects

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Locations

Element A1 - Apple Valley WRP - Vol4

References

DCM # 122 Correspondence # 138 DC 122 - VFD wiring modifications DC 122 VFD Wiring Modifications Closed Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

item	Description	Es	timated Cost	%	Adjusted Cost
			Change	70	Change
1	Labor	\$	-		\$
2	Materials	\$	-		\$
3	Equipment	\$	-		\$
					\$ -
	Total	\$	-		\$
	Markup	\$		15%	\$
ubs	Subtotal	\$	-		\$ -
4	Southern Electrical	\$	12,777.08		\$ 11,000.
		\$			\$
	Subcontract Subtotal		12,777.08		\$ 11,000.
	Subontractro Bond & Ins	\$	127.77	1%	
	Subtotal	\$	12,904.85		\$ 11,000.5
	GC-Subcontractor Markup	\$	645.24	5%	\$ 550.0
	Total	\$	13,550.09		\$ 11,550.5
	Subcontractor OH&P			15%	\$ 1,650.0
	Subcontractor Bond & Ins			1%	\$ 110.0
	GC Bond & Ins	\$	135.50	1%	\$ 115.5
	Total	\$	13,685.60	сон	\$ 13,426.1
				TOAV	\$ 13,426

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00136

7	ויו	m	П	R:

DC 122 VFD Mods

DATE: 12/14/2017

PROJECT:

Victor Valley Subregional WRPq

JOB: 100531

TO:

Attn: Grant Gourley

CONTRACT NO:

1

W.M. Lyles

42142 Roick Drive Temecula, CA 92590

Phone: 951-973-7393

Fax: 951-698-3031

RE:

To:

From:

Number:

DESCRIPTION OF PROPOSAL

Provide modifications to VFDs as directed in DC 122

Item	Description	Stock #	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
00001	Provide VFD Modifications as		1.000		\$25,555.00	0.00%	\$0.00	\$25,555.00

directed in DC 122

Unit Cost:

\$25,555.00

Unit Tax:

\$0.00

Total:

\$25,555.00

WML Markup: \$1,277.75 WML Bond: \$268.33 WML total: \$27,101.08

\$13,426.11 COH = \$13,550.54 \$13,426.11 TOAV = \$13,550.54

APPROVAL:	н		
By:		Ву:	
	Grant Gourley		Brendan Bradford
Date:		Date:	
rímavera ®			Page 1 of 1



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445 (T) 760-744-0760 (F) 760-744-6475 Lic. No. 222252

Cost Proposal/Estimate for Extra Work

				LYLES NO.	
				SCC COR NO.	136
PROJECT:		ctor Valley Wastewater Reclamation Authority		SCC JOB NO.	100531
		bregional WRP's		-	
mo.		M. Lyles Co.			
T0:		tention: Grant Gourly			
		142 Roick Drive			
	ie	mecula, CA 92590			
THE FOLLOW	'ING I	BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPI	ROVAL:		
REFERENCE:	DC	122 VFD Wiring Modifications			
DESCRIPTION:	Pro	ovide Wiring Modifications as directed in DC 122			
	(a)	Tetrotetotototo		18,060	
	(b) (c)	Sales Tax on Materials [8.0% of (a)]		1,445	
	(d)	Rental Equipment [from Breakdown]		1,945 510	
	(e)	Sales Tax on Rental Equipment [8.0% of (d)]		41	
	(f)	Subcontract & Outside Services [from Breakdown]	\$		
	(g)	SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]		22,001	
	(h)	Overhead and Profit:			
		Materials [15% of (a)+(b)]	. \$	2,926	
		Direct Labor [15% of (c)]		292	
		Equipment [15% of (d)+(e)]		83	
		Subcontract & Outside Services [15% of (f)]	. \$	-	
	(i)	SUBTOTAL [(g)+(h)]	. \$	25,302	
	(j)	Bond [1.0% of (i)]		253	
	тот	AL PROPOSAL/ESTIMATE [(i)+(j)]	\$	25,555	
	Esti	mated Time Extension Required TBD	days		
SUBMITTED	BY:	DATE:		12/14/2017	7
		Brendan Bradford			
APPROVED	BY:	DATE:			

Breakdown of Direct Cost

							AWC PCO NO.	0	
CONTRACTOR WORK ITEMS	QTY	MATERIAL		LABOR		LAI	BOR	EQUIPMEN	T
CONTRACTOR WORK ITEMS	QII	UNIT (\$)	EXT	UNIT (HR)	EXT	UNIT (HR)	EXT	RATE (\$)	EXT
1 Hesperia									
2 LS Pumps 01-P-110 and 01-P-120	1 lot	3,277.50	3,277.50	1 1	_	1		1	
3 Hesperia WRP Feed Forward Pumps	1 Lot	1 '	4,916.25		_		_	1	
4 EATON Drives MCC	1 Lot		2,475.00			1			_
5 Scc Support	1	2,473.00		2.00	2.00	8.00	8.00		
6 Truck		i i		2.00	2.00	0.00	0.00	12.8 20.00	255.
7 Apple Valley		1 1		1				12.0 20.00	233.
8 Apple Valley Feed Forward Pumps	1 lot	4,916.25	4,916.25		2		-		
9 EATON Drives MCC	1 Lot		2,475.00			1 1			
0 Scc Support	1 Lot		_,	2.50	2.50	13.00	13.00		
1 Truck								12.8 20.00	255.6
2		1		ľ ľ		1			-
3			-		-				-
4		1	-						-
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				TOTAL HRS	4.50	TOTAL HRS	21.00		
				RATE / HR	\$81.24	RATE / HR	\$75.19		
TOTAL CONTRACTOR'S WORK		\$	18,060.00	\$	365.58	\$	1,578.99	\$	510.0
				TOTAL HRS		5	1,944.57		

SUBCONTRACTOR WORK ITEMS	QTY	MAT	ERIAL	LAB	OR	LAB	OR		EQUIPMEN	T
SUBCONTRACTOR WORK ITEMS	QIT	UNIT (\$)	EXT	UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
								1		
						1				
		025	-			Transition State			_	
TOTAL SUBCONTRACTOR'S WO	DRK	\$		\$	-	\$		\$		

Steve Vickers

From:

Wadnai, Anthony < Anthony Wadnai@Eaton.com>

Sent:

Monday, September 25, 2017 4:35 PM

To:

Steve Vickers

Cc:

Pflimlin, Gina M; Craig Stephens

Subject:

RE: [EXTERNAL] DC 122 VFD wiring modification.pdf - QUOTE LSN00013935

Hey Steve,

The cost for parts and labor to rewire these drives, is below:

Rewire VFD's in MCC item 102 (units 2M & 3M) and MCC item 103 (units 6M & 7M) Cost for parts and labor - \$4,950 Estimated 2 days labor, including travel

Thanks!

Tony Wadnal
Sales Engineer
Eaton
4863 Shawline Street, Suite E
San Diego, California 92111
Office: +1 619 692-6273
Cell: +1 619 481-0141
anthonywadnal@eaton.com
www.eaton.com



From: Steve Vickers [mailto:SVickers@southerncontracting.com]

Sent: Thursday, September 21, 2017 10:01 AM

To: Wadnal, Anthony

Cc: Pflimlin, Gina M; Craig Stephens

Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf

Yes it is as you have shown these VFD's are in the MCC's

The others are Benshaw

From: Wadnal, Anthony [mailto:AnthonyWadnal@Eaton.com]

Sent: Thursday, September 21, 2017 9:59 AM

To: Steve Vickers < SVickers@southerncontracting.com > Cc: Pflimlin, Gina M < GinaMPflimlin@Eaton.com >

Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf



CORPORATE OFFICE: 615 Alpha Drive, Pittsburgh, PA 15238

Telephone: 412 . 968 . 0100 • Fax: 412 . 968 . 5415

www.benshaw.com

QUOTATION

Date : Oct. 5, 2017 P.O.Number :

Job Number: Quote #: DP171005SC, Rev. 0

Terr/Rep/Slapran: PG/ML
Customer #: 3024413
Bill to Address: Southern Contracting
559 North Twin Caks Valley

San Marcos, CA 92069

Name: Steve Vickers

Telephone #: 619-520-6248
Email: svickers@southe

Project or End User: Victor Valley Application : Pumps
Quote By : Dave Parshall
Ship To Address: TBD

Terms: Net 30 days /2% Monthly after 30 days

Freight: Prepaid & Add Ship Date: TBD Ship Via: Best Way F.O.B.: Shipping Point

	Email:	svickers@southemcontracting.com		Shipping Point	
			PLEASE REFER	ENCE QUOTE NUMBE	
TEM	QTY	PART NUMBER / DESCRIPTION	_	UNIT PRICE	EXTENDED PRICE
Α	1	Retrofit/Field Modification		\$13,110.00	\$13,110.0
				l 1	
		Work to be performed:			
		1. Benshaw to revise drawing sets per customer Mark Up dwgs.		l }	
		2. Provide parts (relays, lights and misc wiring).		1	
		3. Field Service to modify existing drives per reviswed drawings.		i I	
		See attached Summary Table.		! !	
				{	
		Field Service is included in the quoted price and includes estimated 4	bro par debro	1 1	
		Travel and Living expenses are included in the quots and these are a			
		Traver and Living expenses are included in the quote and these are a	iso an esuma	ie.	
		Actual expenses will be involced.		1 1	
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nis re	mposali	is subject to the Benshaw, Inc. Standard Terms and Conditions of Sale	A convile		
	le on red		. A copy is	1	
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			and a later of		
)ue	to the u	ncontrollable rise in commodity material costs & fuel, all orders the order entry date, due to customer delays are subject to surcharges		SUB TOTAL	\$13,110.00



Summary Table

Quote # DP171905\$C, Rev. 0 (Pg. 2)

Masse	Location	ю	Dwg	Anv.	Costomer Mark Up Control Dwg	High Pressure Relay	Connison Fault Belay	High Preserve Alexan Ogy	Common Fault Light	High Pressure	Raset
位于共和国的	MAN SULL	国际企业	1. 对自己主义系统。	3	沙尼克斯	FEST AN	西海.	共和在"学	EXPLICIT	E	经验证
		1		1	100	CR4	CRT	174	LT7	TDZ	Pits
Feed Forward Pumps	Himperia WRP	05-P-110	RSI5190685G4CBA12-ENG-00002	7	04-E-02	Mod	Add	Add	Add	Mod	Add Gestion
100 000		05-P-420	RSI519060SG4CBA12-ENG-00002	7	86-E-04	Mod	Add	Add	Add	Mod	Add Contac
		05-P-130	RSI519060SG4CBA12-ENG-00002	7	00-5-02,	Mod	Add	Add	Add	Mod	Add Contac
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	1.75			12.00	30,000	CR4	CH7	LT4	137	TDZ	PB3
Feed Forward Pumps	Appto Valley	05-P-110	R5151906850408A12-ENG-80003	6	04-E-02	Mod	Add	Add	Add	Mod	Add Contac
	The second second	05-P-120	R635180805G4CBA12-ENG-00003	6	06-E-04	Mod	Add	Add	Ada	blod	Add Carted
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AND THE RESERVE		1		1	1	CR.7	CBS	477	LT4	TD2	PE3
Lift Stadion Parypa			RSIS190606G4CBA12-ENG-00001	8	00-E-09A	Mod	Add	Add	Mod	Mod	Add Contact
	No. 1 a delicer	01-P-120	R8I519060\$G4CBA12-ENG-00001	8	OD-E-ORM	Mod	Add	Add	Mod	Mod	Add Contact

100-047-PA ROLL I

2/20/2018

Appearal: SIV



BENSHAW STANDARD TERMS AND CONDITIONS OF SALE

APPLICABILITY/ACCEPTANCE OF TERMS/ENTIRE AGREEMENT. Unless otherwise provided, the sale by Benshaw, Inc. ("Seller") of any products or services described herein shall be governed solely by these terms and conditions of sale and such other provisions agreed upon in writing by duly authorized representatives of Seller. Any oral understandings are expressly excluded. Seller shall not be deemed to have waived these terms and conditions of sale if it fails to object to provisions appearing on, incorporated by reference in, or attached to Buyer's purchase order, written acknowledgement or other authorization to proceed, which provisions are hereby expressly rejected. Buyer's silence or acceptance or use of products constitutes its acceptance of these terms and conditions of sale shall apply to any order for products whether or not they are referenced in such order.

CANCELLATION. Buyer has no right to cancel this order, in whole or in part, absent the prior written agreement of Seller.

FRICES AND PAYMENTS. After formal credit approval, payment terms are net thirty (30) days from the date of invoice. Without credit approval, ten percent (10%) of the total price is due in advance, with the balance C.O.D. A one and one half percent (1.5%) monthly service charge will be added to invoices not paid within thirty (30) days of the Invoice date. If, in Seller's sole judgment, the financial condition or credit-worthiness of Buyer does not warrant shipment of the products ordered, Seller may at its option require full payment prior to shipment, or may refuse to ship without Seller incurring liability to Buyer.

CONFLICTING PROVISIONS. In the event of any conflict between these terms and conditions of sale, and the provisions contained in any purchase order, confirmation, or other similar document issued to Seller by Buyer, the provisions of these terms and conditions shall prevail,

ASSIGNMENT, Neither party shall assign these terms and conditions of sale and any purchase order or any portion thereof without the advance, written consent of the other party, which consent shall not be unreasonably withheld. Notwithstanding the foregoing, Seller may assign this agreement to any entity controlled by or under common control of Renshaw. Inc.

<u>WAIVER</u>, Failure by Seller to assert all or any of its rights upon any breach of these terms and conditions of sale shall not be deemed a waiver of such rights either with respect to such breach or any subsequent breach, nor shall any waiver be implied from the acceptance of any payment or service.

INSPECTION. Buyer shall inspect and accept or reject products delivered pursuant to these terms and conditions and the purchase order promptly after Buyer takes custody of such products. In the event the products do not comply with the applicable specifications, Buyer shall notify Seller of such noncompliance and Seller shall have a reasonable opportunity to correct any such noncompliance. Buyer shall be deemed to have accepted any products delivered hereunder and to have waived any such noncompliance in the event Seller does not receive such notification from Buyer within fifteen (15) days after Buyer takes custody

WARRANTY. Seller warrants that the products and services delivered to Buyer shall be free from defects in material and workmanship, provided that the unit has not been subject to accident, abuse, or misuse, and that the unit has been operated in accordance with the manufacturer's recommendations. Such warranty shall be effective for a period of 12 months after installation or 18 months after delivery, whichever occurs first. If a product is determined to be in breach of this warranty, Seller shall repair or replace such product, at its option, which shall be Buyer's sole remedy for such breach of warranty. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WHETHER STATUTORY OR OTHERWISE, AND BUYER WAIVES ALL OTHER WARRANTIES, OBLIGATION OR LIABILITIES, ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION AN IMPLIED WARRANTY OF COMMERCIAL ACCEPTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS

EXCUSABLE DELAY. The Seller shall be excused from delays in delivery and performance of other contractual obligations under the purchase order caused by acts or omissions that are beyond the reasonable control and without the fault or negligence of Seller including but not limited to Government embargoes, blockades, seizure or freeze of assets, delays or refusals to grant an export license or the suspension or revocation thereof, or any other acts of any Government, fires, floods, severe weather conditions, or any other acts of God, quarantines, labor strikes or lockouts, riots, strife, insurrection, civil disobedience, war, material shortages or delays in deliveries to Seller by third parties. If the excusable delay circumstances extend for six months, either party may, at its option, terminate these terms and conditions of sale and the purchase order without penalty or liability and without being deemed in default or in breach thereof.

TITLE RETENTION AND SECURITY INTEREST. Seller retains title to the equipment until the Buyer performs all its obligations under this Agreement. Seller retains and Buyer grants a security interest in the equipment to secure performance of all Buyer's obligations arising under this Agreement. At the request of Seller. Buyer will execute one or more financing statements in a form satisfactory to Seller.

INSURANCE. Buyer shall maintain and carry liability insurance which includes but is not limited to commercial general liability (including product liability and for services to be performed, completed operations liability) in a sum no less that \$5 million, automobile liability in a sum no less than \$5 million, workmen's compensation in an amount no less than the applicable statutory minimum requirement and employer's liability in an amount of no less that \$1 million, with insurance carriers acceptable to Seller. Buyer will, if requested by Seller, furnish certificates of insurance from its carrier(s) on the foregoing substantial provide that such constants and applicable to Seller. Buyer will, and the changed without thirty (20) days advance written and form the constants.

SPECIAL TOOLING AND DATA. Unless otherwise agreed in writing, all material, software, data, processes, equipment, facilities and special tooling, which

SPECIAL TOOLING AND DATA. Unless otherwise agreed in writing, all material, software, data, processes, equipment, facilities and special tooling, which term includes but is not limited to jigs, dies, fixtures, mold, patterns, special taps, special gages, special test equipment, other special equipment and manufacturing aids and replacements thereof, used in the manufacture of products covered by an order shall be and remain the property of Seller. Seller retains all rights title and interest in drawings engineering instructions specifications and all other switten data if any furnished with the rouducts TIME OF DELIVERY. Unless otherwise agreed in writing by the Seller, delivery of the Goods shall be made ex-works on a day nominated by the Seller, time

TIME OF DELIVERY. Unless otherwise agreed in writing by the Seller, delivery of the Goods shall be made ex-works on a day nominated by the Seller, time not being of the essence, and the Buyer shall be responsible for their prompt collection, transport, off loading and storage. The Seller may, at the Buyer's request, sole risk and expense, arrange carriage of the Goods, in which case the Buyer will be responsible for their prompt off-loading. In all cases, the Buyer shall be responsible for the safe and proper storage of the Goods once they have been delivered. If the Buyer is not able for any reason promptly to accept delivery of the Goods or the Seller exercises its right to withhold delivery of the Goods due to Buyer's financial condition or failure to timely pay Seller, the Seller may, at its discretion and as appropriate, charge the Buyer for any delay in collection or transport or off-loading of the Goods and for their storage and

Any delivery dates notified to the Buyer by the Seller are given by the Seller in good faith, but are business estimates only and the Seller will not be liable to the Buyer for any loss or damage sustained by the Buyer as a result of the Seller's failure to comply with them for whatever reason. The Seller may at its own discretion make delivery of the goods by installments. Each installment shall be treated as the subject of a separate contract upon these terms and conditions and the Seller may invoice for each installment separately.

LIMITATION OF LIABILITY. The sole exclusive remedies of Buyer are those specifically set forth herein Seller's maximum liability for any and all claims arising directly or indirectly from the performance of its obligations under any Agreement with Buyer, including any warranty set forth herein, whether resulting from breach of contract, breach of warranty, tort, products liability, negligence or otherwise, shall not exceed the aggregate purchase price of the particular growth.

and services which are the subject of the claim. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE TO BUYER OR ANY THIRD PARTY FOR LOSS OF BUSINESS, LOST PROFITS, OR ANY OTHER ECONOMIC LOSS, OR ANY INCIDENTAL, EXEMPLARY, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SLICH DAMAGES.

INTELLECTUAL PROPERTY INDEMNITY. Except insofar as a purchase order calls for products pursuant to Buyer's designs, drawings or specifications, Seller agrees to pay the amount of any final judgment against Buyer resulting from a suit claiming that any commercial products manufactured or furnished hereunder, by reason of their manufacture, sale or use, infringes any United States patent which has issued at date of contract, and Buyer's reasonable costs and expenses in defense of such suit if Seller does not undertake the defense thereof, provided Seller is promptly notified of the threat or commencement of such suit and is offered full and exclusive control to conduct the defense or settlement thereof. Seller's indemnity shall not apply where infringement would not have occurred from the normal use for which the products were designed. Seller's liability for damages hereunder is limited to those computed solely on the value of

In no event shall Seller be liable for consequential damages or costs applicable thereto. Buyer agrees to pay all costs and expenses incurred by Seller in its defense and the amount of any judgment against Seller, in any suit or proceeding against Seller based upon a claim of infringement resulting solely from the Buyer combining any product furnished hereunder with any item not manufactured or furnished by Seller or from the sale or use of any such combination by Buyer. In the event any product to be furnished under the purchase order is to be made in accordance with drawings, samples or manufacturing specifications designated by Buyer and is not the design of Seller, Buyer agrees to defend, indemnify and hold Seller harmless to the same extent and subject to the same requirements as set forth in Seller's obligation to Buyer as above. The rights and obligations above are in lieu of any other indemnity or warranty, express or

EXPORT CONTROL. The products or information covered by this agreement may be subject to export regulations of the U.S. Government. Buyer will not export, re-export, re-export, re-export, re-export, resell, transfer or disclose, directly or indirectly, any product, technical data or software obtained hereunder outside the U.S. without (i) complying with applicable export control laws, (ii) notifying and obtaining written permission of Seller, and (iii) providing such reasonable assurances as Seller reasonable assurances.

SOFTWARE LICENSE. In the event that any software or software documentation is provided to Buyer by Seller in any form whatsoever under a purchase order and no software license agreement governing this transfer has been signed between Buyer and Seller, Buyer and Seller agree to accept the terms and conditions stated below effective the date of the first delivery hereunder. Subject to the terms and conditions herein, the Seller grants to Buyer a nonexclusive, nontrapsferable license to use the software decumentation provided herein.

(i) in the course of the normal operation in or with Seller products, (ii) on Seller or non-Seller products that are used to test, maintain, download, or process

(1) in the course of the normal operation in or with Seller products, (ii) on Seller or non-Seller products that are used to test, maintain, download, or process information compiled by Seller products. All title and ownership of such software and software documentation, including, without limitation, the copyrights thereto, shall remain exclusively with Seller. Buyer shall not itself, or with the assistance of others, decompile, reverse engineer, or in any other manner attempt to decipher in whole or in part the logic or coherence of any software or software documentation licensed hereunder. Third party software provided by Seller

TAXES. The prices quoted herein do not include sums necessary to cover any taxes or duties including but not limited to Federal, State, municipal excise, sales or use taxes or import duties upon the production, sales, distribution, or delivery of goods or furnishing of services hereunder. Any taxes or duties that are due and owing hereunder shall be naid by the Buyer

RISK OF LOSS. Unless otherwise agreed to in writing, all risk of loss, theft, or damage from any cause whatsoever, shall be on the Buyer and it's insurers, if any, after the delivery by Seller to the carrier at F.O.B. point.

INSOLVENCY/BANKRUFTCY/FINANCIAL DEFAULT. If the Buyer fails to pay any sum due to Seller hereunder, or shall fail to satisfy any of its obligations hereunder and such default shall continue for ten (10) days after the sending by Seller to the Buyer by a registered letter advising of such default, or if the Buyer by the subject of any proceedings under bankruptcy laws or other insolvency laws or be declared subject to judicial supervision or enter into liquidation. Seller shall have the right to immediately represent the equipment and to terminate this Agreement SETOFF. All amounts that Buyer owes Seller under an order shall be due and payable according to the terms of such order. Buyer is prohibited from and shall

SETOFF. All amounts that Buyer owes Seller under an order shall be due and payable according to the terms of such order. Buyer is prohibited from and shall not set off such amounts or any portion thereof, whether or not liquidated, against sums which Buyer asserts are due it, its parent affiliates, subsidiaries or other divisions or units under other transactions with Seller, its parents, affiliates, subsidiaries or other divisions or units

INDEMNITY. Buyer will indemnify, hold harmless and defend Seller from and against any claims, suits, judgments, expenses or liabilities of any nature (including without limitation all reasonable attorneys' fees) which are threatened or brought against, or are incurred by, Seller arising from any actions, emissions or miscroresculations of Buyer in the use, promotion, or sale of products or services provided by Seller under this sale.

DISPUTE RESOLUTION FOR CONTRACTS WITH NON-U.S. ENITTIES. If either party to this Contract is a non-U.S. entity, any dispute, controversy or claim arising out of or relating to this Agreement, or the breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the International Chamber of Commerce ("ICC") Rules of Arbitration as in force at the commencement of the arbitration. The arbitration shall be conducted by a sole arbitrator that is appointed by the ICC in Accordance with its Rules. The place of arbitration shall be Geneva, Switzerland. Any arbitral tribunal constituted

The arbitration shall be conducted in English. The award of the arbitrator shall be final and binding upon the parties and may be entered and/or enforced in any court of competent jurisdiction. The parties acknowledge that this Agreement and any award rendered pursuant to it shall be governed by the United Nations Convention on the Recognition and Enforcement of Foreign Arbitral Awards. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for protection, and enforcement of its intellectual reposety rights.

DISPUTE RESOLUTION FOR CONTRACTS WITH U.S. ENTITIES. If both parties to this Contract are U.S. entities, any controversy or claim arising out of or relating to this Agreement or its breach shall be settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("AAA") then in effect. The arbitration shall be conducted by a sole arbitrator that is appointed by the AAA in Accordance with its Rules. No arbitrator may be affiliated, whether directly or indirectly, with any of the parties, including, without limitation, as an employee, consultant, partner or sharcholder. The arbitrator(s) shall permit each of the parties to the Arbitration to engage in a reasonable amount of discovery. In the event either party requests arbitration, the arbitration shall be held in Charlotte, North Carolina. The award by the arbitrator or arbitrators shall be final, and judgment upon the award rendered may be entered in any court having jurisdiction thereof. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for protection and

APPLICABLE LAW. Except for agreements with non-U.S. entities, this agreement shall be interpreted in accordance with the laws of the State of New York, exclusive of any choice of law provisions. The Seller and Buyer expressly agree to exclude from this Agreement the United Nations Convention on Contracts for the International Sale of Goods. 1980, and any successor thereto

COST OF COLLECTION AND ATTORNEYS FEES. In the event any action is taken by Seller to collect amounts billed to Buyer by Seller, Buyer shall be liable for all costs and expenses incurred by Seller in relation thereto, including legal fees.

100-021 Rev. D

02/2015

Approval: L. Mannella,

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - DC 114 - MBR Instrument **Air Compressor Electrical Changes**

Type: Contract: RFC - Request for Change

Contractor:

10942 - Apple Valley

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10942 - Apple Valley

Submitted:

10/02/2017

Submitted To:

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -Charles Reynolds, EADOC-VVWRA

-Sub-R - Grant Gourley, EADOC

-VVWRA-Sub-R - Juan

Castillo, EADOC-VVWRA-Sub-R -

Lynene Voelker

Status:

Pending

Priority: Internal Priority: High High

Pending On User:

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -

Lynene Voelker, EADOC-VVWRA

-Sub-R - Juan Castillo

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers, W M Lyles Co

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

10/02/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

786,590.94

Amount Added:

-1,036.50

New Approved Amount:

785,554.44

Current Contract Duration:

821

Days Added: **New Contract Duration:**

eadoc

Budget :

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4

References

DCM # 114 DC 114 - MBR Instrument Air Compressor Closed

Electrical Modifications

Correspondence # 139 DC 114 - MBR Instrument Air Compressor Closed

Electrical Changes

The MBR instrument air compressors shown on Drawing 00-E-04 are shown to be fed by separate 40A breakers. During the meeting with Eaton on March 24, 2016, it was determined and communicated to HDR that the air compressors would be controlled from a single local control panel (LCP), and that a 50 ampere (A) feeder breaker would be sufficient to power the LCP.

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - DC 123 Damper & Make Up Air UNit Controls & FM 200

Type:

RFC - Request for Change

Contract: Contractor:

10942 - Apple Valley W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10942 - Apple Valleyision Date:

Submitted To:

EADOC-VVWRA-Sub-R -

Alton Anderson, EADOC -VVWRA-Sub-R - Grant

Gourley, EADOC-VVWRA-Sub

-R - Lynene Voelker

Status:

Submitted:

Pending

10/15/2017

Priority:

High

Pending On User:

EADOC-VVWRA-Sub-R -Alton Anderson, EADOC -VVWRA-Sub-R - Lynene

Voelker

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

10/15/2017

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: Amount Added:

813,182.33 35,360.21

New Approved Amount: Current Contract Duration:

848,542.54

Days Added:

821 0

New Contract Duration:

821

Budget:

Funding: Cast Itam 17-17

eadoc

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4

References

DCM # 123.A

DC 123 - Damper and Make Up Air Unit Closed Controls

DCM # 123.B

DC 123R - Revision to Damper and Make Closed Up Air Unit Controls

Correspondence # 144

DC 123 Damper & Make Up Air UNit Closed Controls & FM 200

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

1 2 3 3 Subs 4	Labor Materials Equipment Trimax Total Markup Subtotal	\$	Change		\$ \$ \$	Change
2 3	Materials Equipment Trimax Total Markup Subtotal	\$ \$ \$	8,121.18 8,121.18 1,218.18		\$ \$	- - 8,121.:
3 Subs	Equipment Trimax Total Markup Subtotal	\$	8,121.18 8,121.18 1,218.18		\$	8,121.
Subs	Trimax Total Markup Subtotal	\$	8,121.18 1,218.18		\$	
	Total Markup Subtotal	\$	8,121.18 1,218.18		\$	
	Markup Subtotal	\$	1,218.18			8,121.
	Subtotal			15%		
		\$		10-61	\$	1,218.
	Southern Electrical		9,339.36		\$	9,339.
		\$	16,158.03		\$	13,911.
	AMS HVAC	\$	4,523.00		\$	3,894.:
	Alert-One	\$	3,380.59		\$	2,910.
	Subcontract Subtotal	\$	24,061.63		\$	20,715.9
	Subontractro Bond & Ins	\$	240.62	1%		
	Subtotal	\$	24,302.24		\$	20,715.9
	GC-Subcontractor Markup	\$	1,215.11	5%	\$	1,035.8
	Total	\$	34,856.71		\$	31,091.1
	Subcontractor OH&P			15%	\$	3,107.4
	Subcontractor Bond & Ins			1%	\$	207.1
	GC Bond & Ins	\$	348.57	1%	\$	310.9
	Total	\$	35,205.28	сон	\$	34,716.6



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 30, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-96 DC 123 Damper, FM 200 & Makeup Air Units Changes

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from DC 123 to modify the Damper, FM 200 and Makeup Air units. WML completed this work as directed and the cost to complete this work is \$35,350.21. The breakdown of this amount is attached.
\$34,716.62

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

Corporate Office: 1250 W. Olive, Fresno, CA 93728 Telephone: (559) 441-1900 • Fax (559) 487-7958

Trimax \$ 16,242.36 WML Markup \$ 3,248.47	\$ 19,490.83		
Suppliers:	Total Supplier		\$34,716.62 \$34,716.62
\$ 9,046.00 \$ 6,761.18 \$ 32,316.05 \$ 48,123.23	\$ 50,529.39	\$ 700.20 \$ 70,720.43	\$ 35,360.21 \$34,716.62 \$ 35,360.21 \$34,716.62
AMS HVAC AlertOne Fire Southern Contracting Sub Total		Bond Total	СОН
Subcontractors:	Total Subs		



13619 Terrace Pl Whittier, CA 90601 (417) 731-2229

Change Order

Quote #: PCO-03 Date: 10/5/2017 Valid Until: N/A

Quoted By: Christopher Visocky Phone: (760) 809-4151 Email: cvisocky@alertone.us

Project Name: Subregional Water Reclamation Plants Project - T-1139

Quoted To:	Scope of Work
WM Lyles PO Box 4377 Fresno, CA 93744	Added Equipment and material to monitor and shutdown added damper in room 1110 servicing room 1101. Apple Valley site

Qty	Model Number	Description		Price Ea	Ų.	Ext Price
1	PAD 100-TRTI	PAD 100 Two Relay /Two Input	\$	196.79	\$	196.79
1	0	Conduit, connectors, backboxes, mounting material	\$	514.29	\$	514.29
24	Labor		\$	92.86	\$	2,228.57
		Special Instructions		Subtotal:	\$	2,939.64
				Tax:		
			1	Freight:		
				10%	\$	293.96
				5%	\$	146.98
				Total Price:	\$	3,380.59

Terms & Conditions

Accepted:		
Date:		



AMS AMERICA, INC., G.P.

California License No. 894408 B, C-10 & C-20 Nevada License No. 0074325 C21B

ANDERSON AIR CONDITIONING, L.P.

2100 E. Walnut Avenue, Fullerton, CA 92831 (714) 888-6800 FAX: (714) 888-2697

January 26, 2018

WM Lyles Co. PO Box 4377 Fresno, Ca. 93744 Attn: Grant Gourley

Change Order #5: work associated with DC-123 for both Hesperia & Apple Valley WRP Sites - (REVISED 1-26-18)

Scope of Work (for both Apple Valley and Hesperia WRP):

- Demo existing balancing dampers on OSA duct between walls and the Air Handling Unit Section (of 11-AC-01)
- Install new 24"x16" smoke damper and new 24"x16" balancing damper between walls and the Air Handling Unit Section (of 11-AC-01). The smoke dampers will be the same make/model/type that we have already submitted on for the rest of the project.
- For all units that have duct mounted smoke detectors, we need to remove all thermostat wiring within the controls conduit so the that the electrician can add a conduit from the smoke detectors to the controls conduit before it goes through the roof. After the electrician is completed, we will reinstall (or replace as needed) all controls wiring from the AC units to the thermostats and add wiring to interlock the AC unit to the smoke detector. (For units that serve Electrical Rooms, while the electricians are reworking the conduit, we will temporarily relocate the thermostats to the return duct and set the fan to run 24/7 so that the Electrical Rooms stay cool.)

Scope of Work (for the Operations Area at Hesperia WRP only):

- Since there is no alarm control for the smoke damper within this space, we will:
 - o Disconnect and safe off power at the nearest junction box for all smoke dampers.
 - Loosen up damper linkages and/or set screws for all smoke dampers, twist shafts to open position and tighten all linkages and/or set screws

Our Price for the scope above is: \$9,046.00

- Labor (Journeyman = \$4,665.00 / Apprentice = \$1,442.00) = \$6107.00
- Material (including tax & mark-up) = \$2,939.00

<u>Exclusions:</u> Any work not listed above including the Apple Valley WRP Operations Area as we do not know what the final controls strategy is for that space.

Thank you	Accepted By:	
Garret Patterson	Date:	

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00137

Net Amount

TITLE:

DC 123 Damper and Make Up Air Unit

DATÉ: 02/02/2018

PROJECT:

Victor Valley Subregional WRPq

JOB: 100531

TO:

Item

Primavera ®

Attn: Grant Gourley

CONTRACT NO:

1

W.M. Lyles

42142 Roick Drive Temecula, CA 92590

Phone: 951-973-7393

Fax: 951-698-3031

RE:

To:

From:

Number:

Tax Rate Tax Amount

DESCRIPTION OF PROPOSAL

Design Change # 123 Damper and Make up Air Unit Controls

T&M Electrical work for DC 123

Description Stock #

\$32,316.05	\$0.00	0.00%	\$32,316.05	1.000	DC 123 Damper and Make Up Air Unit Controls	3
\$32,316.05		Unit Cost:				
\$0.00		Unit Tax:				
\$32,316.05		Total:				

Unit Price

Quantity Units

APPROVAL:			
By:		By:	
	Grant Gourley	_	Brendan Bradford
Date:		Date:	

17-24

Page 1 of 1

Southern Contracting Co. T&M Recapitulation Work Sheet

SCC Job No: 100531

Project Descr: Victor Valley WRP - DC 123
Customer: W.M. Lyles Co.

Page	Amount	Hours	Labor	Material	Equipment
1	\$6,876.40	42	\$3,825.01	\$2,180.41	\$802.90
2	\$4,039.10	28	\$2,550.01	\$471.79	\$977.31
3	\$6,950.60	42	\$3,837.97	\$1,260.87	\$1,782.95
4	\$11,251.81	66	\$6,017.21	\$2,808.93	\$2,314.27
5	\$2,967.51	23	\$2,169.17	\$237.66	\$531.30
6	\$230.62	0	\$0.00	\$2.28	\$0.00
Subtotals	\$32,316.05	201	\$18,399.37	\$6,961.94	\$6,408.73

Grand Total \$32,316.05

T&M COST BREAKDOWN



SCC JOB NO. DESCRIPTION: DC 123 Damper and make up air unit controls Daily Work Report No. 11/2/2017 10/30/2017 10/31/2017 11/1/2017 11/3/2017 Total Cost Totals LABOR Rate Hours Hours Summary Classification Hours Hours Hours Hours \$78.85 /hr 16 \$3,311,70 Foreman 42 16 Totals Subtotal 1 \$3,311.70 10,00% \$331.17 \$3,642.87 Subtotal 2 5.00% \$182.14 \$3,825.01 Profit Subtotal 3 EQUIPMENT Total Description Hours Hours Hours Hours Hours Units Rate Service Truck (w/tools) Threader Green Lee Bender \$20.00 /hr \$2,95 /hr \$6.30 /hr \$680,00 ST 0.5 0,5 Subtotal 4 \$695.15 10.00% OH Subtotal 5 \$69.52 \$764.67 5.00% \$38.23 \$802.90 Profi Subtotal 6 MATERIALS, SERVICES, OTHER MATERIALS, SERVICES
Description

1º GRC T Condilet

1º Threadless Connector

1º GRC Conduit

1º GRC Elbow

1º GRC Couplings

7/8º HDG Strut Price Unit \$17.90 ea Qty Qty Qty Qty Qty Qty Taxable \$17.90 \$3.86 \$117.60 \$25.26 \$14.16 \$36.80 \$46.00 \$15.50 \$23.76 \$3.86 ea \$1.68 ea 20 \$8.42 ea \$2.36 ea \$3,68 ea 7/8" HDG Strut
15/8" HDG Strut
15/8" SS Beam Clamp
1" Stut strap
1/4"x1" SS Bolt
3/8"x1/2" SS Bolt
0'Z Gedney 90 Seal Filling
1" Seal Tight Flex
1/4" SS Anchors \$4.60 ea \$15.50 ea \$2.64 ea \$0.30 ea \$2.10 \$0.70 \$42.87 \$132.84 \$15.06 \$8.05 \$1.56 \$10.92 \$3.32 \$84.56 \$32.46 \$0.70 ea \$42,87 ea \$66.42 ea \$2,51 ea \$1.15 ea 1/4" SS Anchors 1/4" Fender Washers 1/4" Square Washers \$0.26 ea \$0.26 ea \$5.46 ea 1" Backs w/clamp 3/4" Backs w/clamp \$3,32 ea \$21.14 ea \$32.46 ea 3/4 Backs Wichamp 2g Bell Box Copper Shield Jar No-Locks Jar 1/2" Seal Tight Flex 1/4" Spring Nuts 1" 90 Flex Conn 1" St Flex Conn 1" St Flex Conn \$32.46 ea \$15.27 ea \$1.78 ea \$2.27 ea \$31.16 ea \$14.01 ea \$13.01 ea \$1.107 ea \$6.18 ea \$1.15 ea \$5.29 ea \$8.50 ea \$15,27 \$10,68 \$9,08 \$31,16 \$14,01 \$13,01 1" Ground Bushing 3/4" Flexible Metal Conduit 1/2"x38" Flex Conn 100 40 100 3/4" GRC \$5,29 \$8,50 \$25,00 \$1,92 \$16,40 3/4" SS Mini Strap 1/4" SS Beam Clamp 1/4" SS Beam Clamp 1/2" SS Beam Clamp 1/2" SS Bolt 2G Bell Box Covers #12 XHHW-2 BLK #12 XHHW-2 BWHITE #12 XHHW-2 Green Box of Red Wire Nuts \$25,00 ea \$1.92 ea \$4.10 ea \$1.22 ea \$1.22 ea \$1.22 ea 160 160 160 \$195.20 \$195.20 \$195.20 \$195.20 \$9.50 160 160 160 \$9.50 ea Subtotal 7 \$1,747.96 TAX Subtotal 8 8.00% \$139.84 **\$1,887.80** 10.00% OH Subtotal 9 \$188.78 \$2,076.58 \$103.83 \$2,180.41 5.00% Subtotal 10

TOTAL - Pg. 1

\$6,876.40

SOUTHERN REST 1963 REST 1963

T&M COST BREAKDOWN

	100531 DC 123 Damper and Ma	ake Up Air Unit Controls	(in	Dai	y Work Repo	rt No.		1			
			14/6/0047				-				
LABOR			11/6/2017	11/7/2017	11/8/2017	11/9/2017		Total	1	Cost	Totals
Classification		Rate	Hours	Hours	Hours	Hours	Hours	Hours		Summary	1 Ofals
								0		Cumay	
Foreman		\$78.85 /hr	8	6	6	8		28		\$2,207.80	
								0			
			-					0			
			1					0			
								0			
		1		1				0			
								0			
					1			0			
								0			
								0			
								0			
		Totals	8	6	- 6	8	0	28			_
									Subtotal 1		\$2,207.80
									ОН	10.00%	\$220.78
			1						Subtotal 2		\$2,428.58
			1						Profit	5.00%	\$121,43
									Subtotal 3		\$2,550.01
EQUIPMENT		Date	-					Total			
Description		Rate	Hours	Hours	Hours	Hours	Hours	Units			
								0			
								0			
Service Truck (Utility Be	d)	ST \$20,00 /hr	8	6	6	8		28		\$560.00	
Threader		\$2.95 /hr	0.5	0.5	0.5	1		2.5		\$7.38	
Scissor Lift		\$16,63 /hr	8			8		16		\$266.08	
Tydraulic Bender		\$12.79 /hr			0.5			0.5		\$6.40	
Green Lee Bender		\$6.30 /hr				1		1		\$6.30	
								0			
								0			
			-		-		_	0			
			-					0			
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								0			
								0			
						1		0			
			1				-	0			
									Subtotal 4		\$846.15
			1.						Subtotal 5	10.00%	\$84.62
			1						Profit	5.00%	\$930.77 \$46.54
									Subtotal 6	3,0078	\$977.31
MATERIALS, SERVICES	S, OTHER							Total			40,1101
escription		Price Unit	Qty	Qty	Qty	Qty	Qty	Qty	Taxable		
" GRC Conduit		\$1.68 ea	10	1	10	40		60.	Y	\$100.80	
" GRC T Condilet		\$17.90 ea	1	1				2	Y	\$35.80	
MI Carl Tiel-4 Fig.								3	Y	\$3.99	
/4" Seal Tight Flex		\$1.33 ea	3					2	Y	040 00 1	
/4" Seal Tight Flex /4" Seal Tight ST Conn		\$8.44 ea	2			1 1		2		\$16.88	
/4" Seal Tight Flex /4" Seal Tight ST Conn "Threadless Conn		\$8.44 ea \$3.86 ea	2	1		1		2	Y	\$7.72	
/4" Seal Tight Flex /4" Seal Tight ST Conn " Threadless Conn /8" Beam Clamp /4" Mineral Lac Strap		\$8.44 ea	2	1 1		1		3	Y	\$7.72 \$46.50	
/4" Seal Tight Flex /4" Seal Tight ST Conn " Threadless Conn /8" Beam Clamp /4" Mineral Lac Strap /8"x1/2" Bolt		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea	2 1 1						Y	\$7.72 \$46.50 \$10.58	
/4" Seal Tight Flex /4" Seal Tight ST Conn "Threadless Conn /8" Beam Clamp /4" Mineral Lac Strap /8" x1/2" Bolt eck Screws		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea	2 1 1 1	1 1		1		3 2 3 2	Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10	
/4" Seal Tight Flex /4" Seal Tight ST Conn "Threadless Conn /8" Beam Clamp /4" Mineral Lac Strap /8"x1/2" Bolt eck Screws /4" GRC Conduit		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea	2 1 1 1 1	1 1 10		1		3 2 3 2 10	Y Y Y Y Y	\$7.72 \$46.50 \$10.58	
/4" Seal Tight Flex /4" Seal Tight ST Conn "Threadless Conn /8" Beam Clamp /4" Mineral Lac Strap /6" x1/2" Bolt eck Screws /4" GRC Conduit "x3/4" RE		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea	2 1 1 1 1	1 1 10 1		1		3 2 3 2 10	Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12	
14" Seal Tight Flex 4" Seal Tight ST Conn 1 Threadless Conn 8" Beam Clamp 4" Mineral Lac Strap 6"x1/2" Bolt seck Screws 4" GRC Conduit x3/4" RE 4" LB Condilet		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea	2 1 1 1 1	1 1 10 1		1		3 2 3 2 10 1	Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07	
14" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 8" Beam Clamm 4" Mineral Lac Strap 6"x1/2" Bolt eck Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"x1/2" RE		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea	2 1 1 1 1	1 1 10 1 1	q	1		3 2 3 2 10 1 1	Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98	
14" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 18" Beam Clamp 4" Mineral Lac Strap 18" X12" Bolt 2ek Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"X1/2" RE 2" Seal Tight ST Conn		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	3 10	1		3 2 3 2 10 1 1 1 5	Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2,10 \$0,20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55	
14" Seal Tight Flex 4" Seal Tight ST Conn 4" Seal Tight ST Conn 8" Beam Clamp 14" Mineral Lac Strap 6" X12" Bolt eck Screws 4" GRC Conduit 'x3/4" RE 4" LB Condilet 4" X1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea	2 1 1 1 1	1 1 10 1 1	10	1		3 2 3 2 10 1 1 1 5	Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14	
14" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 8" Beam Clamp 4" Mineral Lac Strap 8" X1/2" Bolt eck Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"X1/2" RE 2" Seal Tight Flex 1-lub Space Saver Strut Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea	2 1 1 1 1	1 1 10 1 1 1 1 2		1		3 2 3 2 10 1 1 1 5	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20	
/4" Seal Tight Flex /4" Seal Tight ST Conn "Threadless Conn /8" Beam Clamp /4" Mineral Lac Strap /6" x1/2" Bolt eck Screws /4" GRC Conduit "x3/4" RE /4" LB Condilet /4" x1/2" RE '2" Seal Tight ST Conn /2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10	1		3 2 3 2 10 1 1 1 5 13	Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20	
14" Seal Tight Flex 4" Seal Tight ST Conn 'Threadless Conn 'B" Beam Clamp 4" Mineral Lac Strap 6"x1/2" Bolt seck Screws 4" GRC Conduit x34" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20	
/4" Seal Tight Flex /4" Seal Tight ST Conn "Threadless Conn /8" Beam Clamp /4" Mineral Lac Strap /6" X1/2" Bolt eck Screws /4" GRC Conduit 'x3/4" RE /4" LB Condilet /4" X1/2" RE /2" Seal Tight Flex 'Hub Space Saver 'Strut Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1		3 2 3 2 10 1 1 1 5 13 1 5 3 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$28.26	
14" Seal Tight Flex 4" Seal Tight ST Conn 'Threadless Conn 'B" Beam Clamp 4" Mineral Lac Strap 6"x1/2" Bolt seck Screws 4" GRC Conduit x34" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$13.20 \$9.95	
14" Seal Tight Flex 4" Seal Tight ST Conn 'Threadless Conn 'B" Beam Clamp 4" Mineral Lac Strap 6"x1/2" Bolt seck Screws 4" GRC Conduit x34" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$16.67	\$378.21
14" Seal Tight Flex 4" Seal Tight ST Conn 'Threadless Conn 'B" Beam Clamp 4" Mineral Lac Strap 6"x1/2" Bolt seck Screws 4" GRC Conduit x34" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$13.20 \$9.95	\$30,26
4" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 8" Beam Clamp 4" Mineral Lac Strap 8" x1/2" Bolt ack Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y X Subtotal 7 TAX Subtotal 8	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$13.20 \$19.55 \$10.67	\$30,26 \$408,47
4" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 8" Beam Clamp 4" Mineral Lac Strap 8" x1/2" Bolt ack Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$16.67	\$30,26 \$408,47 \$40.85
4" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 8" Beam Clamp 4" Mineral Lac Strap 8" x1/2" Bolt ack Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$19.20 \$19.60 \$28.26 \$9.95 \$16.67	\$30.26 \$408.47 \$40.85 \$449.32
4" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 8" Beam Clamp 4" Mineral Lac Strap 8" x1/2" Bolt ack Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$13.20 \$19.55 \$10.67	\$30.26 \$408.47 \$40.85 \$449.32 \$22.47
4" Seal Tight Flex 4" Seal Tight ST Conn 1" Threadless Conn 8" Beam Clamp 4" Mineral Lac Strap 8" x1/2" Bolt ack Screws 4" GRC Conduit x3/4" RE 4" LB Condilet 4"x1/2" RE 2" Seal Tight ST Conn 2" Seal Tight Flex Hub Space Saver Strut Strap 2" Seal Tight 90 Mineral Lac Strap		\$8.44 ea \$3.86 ea \$15.50 ea \$5.29 ea \$0.70 ea \$0.10 ea \$1.15 ea \$2.12 ea \$11.07 ea \$1.98 ea \$6.51 ea \$1.78 ea \$3.20 ea \$2.64 ea \$9.42 ea \$9.95 ea	2 1 1 1 1	1 1 10 1 1 1 1 2	10 1 1	1 1 4 1		3 2 3 2 10 1 1 1 5 13 1 5 3 1 1 0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$7.72 \$46.50 \$10.58 \$2.10 \$0.20 \$11.50 \$2.12 \$11.07 \$1.98 \$32.55 \$23.14 \$3.20 \$13.20 \$19.20 \$19.60 \$28.26 \$9.95 \$16.67	\$30.26 \$408.47 \$40.85 \$449.32



T&M COST BREAKDOWN

DESCRIPTION: DC 123 Dam	per and make up air unit	controls		Dail	y Work Repor	t No.		14			
			11/13/2017	11/14/2017	11/15/2017	11/16/2017	11/17/2017				
ABOR Classification	Rate		Hours	Hours	Hours	Hours	Hours	Total Hours		Cost Summary	Totals
General Foreman		\$84.46 /hr					2	0 2		\$168.92	
oreman		\$78.85 /hr	ŧ	8	8	8	8	40		\$3,154.00	
								0			
			1					0			
							4	0			
								0			
								0			
							V	D			
	То	tals	8	8	8	8	10	0 42			
									Subtotal 1 OH	10.00%	\$3,322. \$332.
									Subtotal 2		\$3,655.
									Profit Subtotal 3	5.00%	\$182. \$3,837.
QUIPMENT							1	Total			44,007.
Description	Rate		Hours	Hours	Hours	Hours	Hours	Units	-		
								0			
Service Truck (Utility Bed)	ST	\$20,00 /hr	8	8	8	8	10	0 42		\$840,00	
Freader Scissor Lift	ST	\$2.95 /hr \$16,63 /hr	0.5	1 8	1 8	1 8	1 8	4.5		\$13.28 \$665,20	
Green Lee Bender	ST	\$6.30 /hr		1	1	1	1	4		\$25,20	
								0			
								0			
								0			
								0			
								0			
								0			
								0			
								0			
								-	Subtotal 4		\$1,543.
									OH Subtotal 5	10.00%	\$154.3 \$1,698.0
									Profit	5.00%	\$84.9
MATERIALS, SERVICES, OTHER							-	Total	Subtotal 6		\$1,782.9
Description		Price Unit	Qty	Qty	Qty 3	Qty	Qty	Qly	Taxable Y	\$126.84	
2G Bell Box I/2" Seal Tight Flex		\$21.14 ea \$1.78 ea	1 6			2		6	n	\$10.68	
"x1/2" RE "x3/4" RE		\$2.07 ea \$2.12 ea	10		3		2	15 10	Y	\$31.05 \$21.20	
i" Ocal Union	1	\$53,76 ea	1					1	Y	\$53,76	
l" Ocal T Condilet I" Ocal Conduit		\$56.34 'ea \$4.46 ea	1	20				20	Y	\$56,34 \$89.20	
" Ocal Elbow " Ocal Couplings		\$14.65 ea \$4,66 ea		3 6				6	Y	\$43.95 \$27.96	
3/8" SS Beam Clamps		\$15.50 ea		3	1		7 0	4	Y	\$62.00	
8/8" SS 316 All Thread 8/8" SS Nuts		\$2.55 ea \$0.18 ea		6	2 3			5 9	Y	\$12.75 \$1.62	
8/8" SS Fender Washers		\$0,33 ea		2				2	Å	\$0,66	
i 5/8" Unistrut SS		\$0,33 ea \$9.50 ea		10				10	Ÿ	\$95.00	
I/2" Ocal Seal Tight ST I/2" Ocal Seal Tight 90		\$31.74 ea \$37.06 ea		1				1	Y	\$31.74 \$37.06	
/2" Seal Tight Flex		\$1.78 ea \$1.68 ea	-	3	20	20	30	70	Y	\$5.34 \$117.60	-
" GRC Conduit " Ground Bushing		\$13.01 ea			1		1	2	Y	\$26.02	
" Gibson mini SS " Lock Nuts		\$9.95 ea \$0.63 ea			1	1	2	3	Y	\$19.90 \$1,89	
" SS Strut Straps		\$3.32 ea			2			2	Ÿ	\$8.64	
/4"x3 3/4" SS Anchors " Galv, Backs w/clamps		\$1.15 ea \$5.46 ea	-		3		1	5 4	Y	\$5,75 \$21.84	
" GRC Elbow /4" SS Washers		58,42 ea 50,10 ea			1 4	6	1	10	Y	\$16.84 \$1.00	
/4"x1" SS Bolts		\$0.29 ea			4	6		10	Ÿ	\$2.90	
		\$2.27 ea \$3.86 ea			4	6	1	10	Υ	\$22.70 \$7.72	
/4" SS Spring Nuts " Threadless Conn		\$2,36 ea \$0,26 ea				1 2		1 2	Y	\$2.36 \$0.52	
/4" SS Spring Nuts "Threadless Conn " GRC Coup							2	2	Y	\$13.02	
/4" SS Spring Nuts "Threadless Conn "GRC Coup /4" Square Washers /2" Seal Tight ST Conn		\$6.51 ea	-				1				
/4" SS Sring Nuts " Threadless Conn " GRC Coup /4" Square Washers /2" Seal Tight ST Conn " GRC Union							1	1	Y	\$7.60 \$16.67	
14" SS Spring Nuts "Threadless Conn "GRC Coup 14" Square Washers 12" Seal Tight ST Conn "GRC Union "GRC Union "GRC LB Condulet "Seal Tight Flex		\$6.51 ea \$7.60 ea \$16.67 ea \$2.51 ea					1 3	1 3	Y	\$16.67 \$7.53	
IA" SS Spring Nuts "Threadless Conn "GRC Coup IA" Square Washers I2" Seal Tight ST Conn "GRC Union "GRC BC Condulet		\$6.51 ea \$7.60 ea \$16.67 ea					1	1	Y Y Y	\$16.67	
14" SS Spring Nuts "Threadless Conn "GRC Coup 14" Square Washers 12" Seal Tight ST Conn "GRC Union "GRC Union "GRC LB Condulet "Seal Tight Flex		\$6.51 ea \$7.60 ea \$16.67 ea \$2.51 ea					1 3	1 3 2	Y Y Y Y Subtotal 7	\$16.67 \$7.53 \$5.28	\$1,011.5 \$80.0
IA" SS Spring Nuts "Threadless Conn "GRC Coup IA" Square Washers I2" Seal Tight ST Conn "GRC Union "GRC Union "GRC LB Condulet "Seal Tight Flex		\$6.51 ea \$7.60 ea \$16.67 ea \$2.51 ea					1 3	1 3 2	Y Y Y Y Subtotal 7 TAX Subtotal 8	\$16.67 \$7.53 \$5.28 8.00%	\$80.0 \$1,091.0
IA" SS Spring Nuts "Threadless Conn "GRC Coup IA" Square Washers I2" Seal Tight ST Conn "GRC Union "GRC Union "GRC LB Condulet "Seal Tight Flex		\$6.51 ea \$7.60 ea \$16.67 ea \$2.51 ea					1 3	1 3 2	Y Y Y Y Subtotal 7 TAX Subtotal 8	\$16.67 \$7.53 \$5.28	\$80.0 \$1,091.0 \$109.0
IA SS Spring Nuts "Threadless Conn "GRC Coup IA" Square Washers IA" Seal Tight ST Conn "GRC Union "GRC Union "GRC Union "GRC Union "GRC Union		\$6.51 ea \$7.60 ea \$16.67 ea \$2.51 ea					1 3	1 3 2	Y Y Y Y Subtotal 7 TAX Subtotal 8 OH Subtotal 9 Profit	\$16.67 \$7.53 \$5.28 8.00%	\$80. \$1,091. \$109. \$1,200. \$60.
IA" SS Spring Nuts "Threadless Conn "GRC Coup IA" Square Washers I2" Seal Tight ST Conn "GRC Union "GRC Union "GRC LB Condulet "Seal Tight Flex		\$6.51 ea \$7.60 ea \$16.67 ea \$2.51 ea					1 3	1 3 2	Y Y Y Y Subtotal 7 TAX Subtotal 8 OH Subtotal 9	\$16.67 \$7.53 \$5.28 8.00% 10.00% 5.00%	\$80. \$1,091. \$109. \$1,200.

SOUTHERN 1963

T&M COST BREAKDOWN

DESCRIPTION: DC 123 Damper	and make up air unit controls		Dai	y Work Repo	t No.					
		11/20/2017	11/21/2017	11/22/2017	11/27/2017	11/28/2017				
LABOR Classification	Rate						Total		Cost	Totals
		Hours	Hours	Hours	Hours	Hours	Hours 0		Summary	
General Foreman Foreman	\$84.46 /hr \$78.85 /hr	8	13	12	1 16	16	1 65		\$84.46	
	770.00 710	Ť	-10	12	10	10	0		\$5,125,25	
		- 1			7		0			
							0			
							0			_
							0			
							0			
							0			
	Totals	8	13	12	17	16	66			
								Subtotal 1	10.00%	\$5,209 \$520
								Subtotal 2		\$5,730
								Profit Subtotal 3	5.00%	\$286. \$6,017.
EQUIPMENT Description	Date	- Union	U				Total			
Description	Rate	Hours	Hours	Hours	Hours	Hours	Units		-	
							0			
Service Truck (Utility Bed)	ST \$20.00 /hr	8	13	12	17	16	66		\$1,320.00	
Threader Bender	ST \$2,95 /hr ST \$6,30 /hr	0.5	1	0.5 0.5			2		\$5.90	
Scissor Lift	ST \$16.63 /hr	8	8	8	8	8	40		\$12.60 \$665.20	
							0			
							0			
							0			
							0			
		7 - 1					0	14		
							0			
		1/1					0	3		
							0			
							D			
								Subtotal 4 OH	10.00%	\$2,003,7 \$200.3
								Subtotal 5		\$2,204.0
								Profit Subtotal 6	5.00%	\$110.2 \$2,314.2
MATERIALS, SERVICES, OTHER Description	Price Unit	aty	Qty	Other	004	0114	Total	Tauable		
" GRC Conduit		Lity	Uty	Qty 20	Qty	Qly	Qty 30	Taxable		
	\$1.68 ea	10					30	Y	\$50.40	
/2" SS Beam Clamp	\$25.00 ea	1				-	1	Y	\$50.40 \$25.00	
/2" SS Beam Clamp /2"x1" SS Bolt /8" SS Beam Clamp	\$25.00 ea \$1.92 ea \$15.50 ea	1 1				1			\$25.00 \$1.92	
/2" SS Beam Clamp /2"x1" SS Bolt /8" SS Beam Clamp /8"x1" SS Bolt	\$25.00 ea \$1.92 ea \$15.50 ea \$0,70 ea	1 1 1 1		12			1 1 2 13	Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10	
/2" SS Beam Clamp /2"x1" SS Bolt /8" SS Beam Clamp /8"x1" SS Bolt "SS Givson Mineral lac /8" SS Nuts	\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea	1 1 1 1 3 6		12		1	1 1 2 13 4 6	Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80	
/2" SS Beam Clamp /2"x1" SS Bolt /8" SS Beam Clamp /6"x1" SS Bolt " SS Givson Mineral lac /6" SS Nuts /8" SS Barel Nuts	\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea	1 1 1 1 3 6		12		1	1 1 2 13 4 6 2	Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50	
/2" SS Beam Clamp /2"x1" SS Bolt /8" SS Beam Clamp /8"x1" SS Bolt "SS Givson Mineral lac "8" SS Mineral lac "8" SS Barrel Nuts /8" SS Barrel Nuts /8" SS All Thread "8" XS 314" SS Anchors	\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea	1 1 1 1 3 6 2 2 2		12			1 1 2 13 4 6 2 5	Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70	
/2" SS Beam Clamp /2" K1" SS Bolt /8" SS Beam Clamp /8" SS Beam Clamp /8" SS Bolt " SS Givson Mineral lac	\$25.00 ea \$1.92 ea \$15.50 ea \$5.70 ea \$9.95 ea \$0.18 ea \$2.25 ea \$2.25 ea \$3.85 ea \$2.14 ea	1 1 1 1 3 6 2 2 2 2	1 1	12	2	1	1 1 2 13 4 6 2 5 2	Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56	
	\$25.00 ea \$1.92 ea \$15.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea	1 1 1 1 3 6 2 2 2	1 3	12	2 9	1	1 1 2 13 4 6 2 5 2 4 3 18	Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04	
	\$25.00 ea \$1.92 ea \$15.50 ea \$9.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1	12		3	1 1 2 13 4 6 2 5 2 4 3 18 20 1	Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$89.20	
	\$25.00 ea \$1.92 ea \$15.50 ea \$5.70 ea \$9.95 ea \$0.18 ea \$2.25 ea \$2.25 ea \$3.85 ea \$2.14 ea \$1.73 ea \$4.46 ea \$56.34 ea \$1.15 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4	12	9	3	1 1 2 13 4 6 2 5 2 4 3 18 20 1	Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$9.80 \$1.08 \$0.50 \$12.76 \$7.70 \$84.56 \$22.26 \$32.04 \$89.20 \$56.34	
	\$25.00 ea \$1.92 ea \$15.50 ea \$9.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$2.14 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$5.15 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2		9	3 3	1 1 2 13 4 6 2 5 2 4 3 18 20 1 4 7 2	Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.76 \$7.70 \$84.56 \$29.26 \$32.04 \$89.20 \$45.57	
	\$25.00 ea \$1.92 ea \$15.50 ea \$5.70 ea \$5.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$2.14 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.34 ea \$1.15 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2 70	50	9 4 200	3 3 2 80	1 1 2 13 4 6 2 5 5 2 4 3 18 20 1 4 7 7	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$89.20 \$56.34 \$4.60 \$45.57	
	\$25.00 ea \$1.92 ea \$15.50 ea \$15.50 ea \$50.70 ea \$5.95 ea \$0.18 ea \$0.25 ea \$2.25 ea \$3.85 ea \$2.14 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.51 ea \$1.22 ea \$1.22 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2	50 50 50	9 4 200 200 200	3 3 3 2 80 80 80	1 1 2 13 4 6 2 5 5 2 4 3 18 20 1 4 7 2 400 400	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.76 \$7.70 \$84.56 \$28.26 \$32.04 \$89.20 \$4.60 \$4.60 \$4.60 \$4.60 \$4.60 \$4.60 \$4.60	
	\$25.00 ea \$1.92 ea \$15.50 ea \$5.50 ea \$0.70 ea \$9.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$2.55 ea \$2.114 ea \$9.42 ea \$1.78 ea \$4.46 ea \$56.34 ea \$1.15 ea \$56.51 ea \$15.22 ea \$51.22 ea \$51.22 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2 70 70	50 50 50 1	9 4 200 200	3 3 2 80 80	1 1 2 13 4 6 2 5 5 2 4 3 18 20 1 4 7 2 400 400	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$45.57 \$45.57 \$45.57 \$45.57 \$45.57 \$48.00 \$488.00	
	\$25.00 ea \$1.92 ea \$15.50 ea \$50.70 ea \$50.70 ea \$5.95 ea \$0.18 ea \$0.25 ea \$2.55 ea \$3.85 ea \$21.14 ea \$4.46 ea \$56.34 ea \$1.15 ea \$6.34 ea \$1.15 ea \$6.34 ea \$1.22 ea \$1.22 ea \$1.22 ea \$4.40 ea \$4.40 ea \$5.40 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2 70 70	50 50 50 1 1 10 12	9 4 200 200 200	3 3 3 2 80 80 80	1 1 2 13 4 6 2 5 2 4 3 18 20 1 4 7 2 400 400 400 12	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$89.20 \$56.34 \$4.60 \$48.00 \$488.00 \$488.00 \$486.00 \$486.00 \$486.00 \$486.00 \$486.00 \$486.00	
IZ' SS Beam Clamp IZ' SS Beam Clamp IZ' Nt' SS Bolt IS' SS Beam Clamp IS' SS Beam Clamp IS' SS Bott IS' SS Bott IS' SS Bott IS' SS Bott IS' SS Anchors IS' SS All Thread IS' SS SIrut IS' SS S SIrut	\$25.00 ea \$1.92 ea \$15.50 ea \$5.570 ea \$5.970 ea \$5.995 ea \$0.18 ea \$0.25 ea \$2.55 ea \$2.55 ea \$2.14 ea \$4.46 ea \$56.34 ea \$1.15 ea \$4.60 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$3.40 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4	9 4 200 200 200	3 3 3 2 80 80 80	1 1 2 13 4 6 6 2 5 2 4 3 18 20 1 4 7 2 4 400 400 400 13 10 11 10 11 10 10 10 10 10 10 10 10 10	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$9.10 \$1.08 \$0.50 \$12.76 \$7.70 \$84.56 \$28.26 \$32.04 \$4.60	
In the second	\$25.00 ea \$1.92 ea \$15.50 ea \$5.570 ea \$5.970 ea \$5.995 ea \$0.18 ea \$0.25 ea \$2.55 ea \$2.55 ea \$2.14 ea \$4.46 ea \$56.34 ea \$1.15 ea \$4.60 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$3.40 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2 70 70	50 50 50 1 10 12 4 2	9 4 200 200 200	3 3 3 2 80 80 80	1 1 2 13 4 6 2 5 5 2 4 3 18 20 0 1 4 7 7 2 400 400 13 10 10 10 10 10 10 10 10 10 10 10 10 10	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$9.10 \$1.08 \$0.50 \$12.75 \$7.70 \$84.56 \$28.26 \$32.04 \$48.90 \$45.57 \$32.68 \$48.00 \$48.00 \$48.00 \$55.30 \$48.00 \$55.30 \$48.00 \$55.30 \$48.00 \$55.30 \$48.00 \$55.30 \$45.50 \$55.30 \$45.50 \$	
In the second comp In the	\$25.00 ea \$1.92 ea \$15.50 ea \$15.50 ea \$5.70 ea \$5.95 ea \$0.18 ea \$0.25 ea \$2.25 ea \$3.85 ea \$2.14 ea \$3.46 ea \$4.46 ea \$56.34 ea \$1.15 ea \$1.15 ea \$1.12 ea \$1.22 ea \$1.22 ea \$1.22 ea \$1.22 ea \$3.32 ea \$3.33 ea \$17.90 ea \$0.23 ea \$0.23 ea	1 1 1 1 1 3 6 2 2 2 2 1 1	1 3 20 1 4 1 2 70 70	50 50 50 10 10 12 4 2 4 12	9 4 200 200 200	3 3 3 2 80 80 80	1 1 2 13 4 6 2 5 5 2 4 3 18 20 1 4 7 2 400 400 400 10 11 11 11 11 11 11 11 11 11 11 11 1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	\$25.00 \$1.92 \$31.00 \$9.10 \$39.80 \$1.08 \$0.50 \$12.76 \$7.70 \$12.76 \$28.26 \$84.66 \$28.26 \$32.04 \$46.67	
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T&M COST BREAKDOWN



SCC JOB NO. Daily Work Report No. DESCRIPTION: 123 Damper and make up air unit controls 12/5/2017 12/6/2017 12/7/2017 LABOR Total Cost Totals Rate Hours Hours Hours Hours Hours Hours Summary Classification \$971.29 \$906.78 \$84.46 /hr 5.5 4.5 11.5 11.5 General Foreman \$78.85 /hr 4 0 0 ٥ 0 0 0 Totals 4 10 0 0 23 \$1,878.07 Subtotal 1 10.00% \$187.81 **\$2,065.88** OH Subtotal 2 \$103,29 \$2,169.17 Profit 5.00% Subtotal 3 EQUIPMENT Total Description Rate Hours Hours Hours Hours Hours Units 0 \$20.00 /hr 10 \$460.00 g Service Truck (Utility Bed) 23 0 0 0 D Subtotal 4 \$460.00 \$46.00 \$506.00 10.00% Subtotal 5 Profit 5.00% \$25.30 \$531,30 Subtotal 6 MATERIALS, SERVICES, OTHER Total Price Unit \$2.00 ea \$12.92 ea \$24.90 ea Description Wire Lables Qty 10 Qty Qty Qty Qty Qtv Taxable \$112.00 \$25.84 \$49.80 56 40 Eaton D3PA2 Base Eaton Relay D3PF2AA 12 #14 MTW Wire \$0.12 ea 12 24 \$2.88 0 0 0 0 0 \$190.52 Subtotal 7 8,00% \$15.24 \$205.76 \$20,58 \$226.34 ОН 10.00% Subtotal 9 5,00% \$11.32 Profit Subtotal 10 \$237.66 Bond \$29.38 TOTAL - Pg. 5 \$2,967.51

5.00%

1.00%

\$2,28

\$230.62

Subtotal 10

TOTAL - Pg. 6

Bond

T&M COST BREAKDOWN

SCC JOB NO. 100531 DESCRIPTION: DC 123 Damper and make up air unit controls Daily Work Report No. 1/25/2018 1/29/2017 LABOR Total Totals Cost Classification Local Rate Hours Hours Hours Hours Hours Hours Summary \$78.85 /hr Foreman \$157.70 0 0 0 0 0 Totals 0 Subtotal 1 \$157.70 \$15.77 **\$173.47** 10.00% OH Subtotal 2 \$8,67 \$182,14 Profit Subtotal 3 5.00% EQUIPMENT Total Description Rate Hours Hours Hours Hours Hours Units 0 0 Service Truck (Utility Bed) \$20.00 /hr ST \$40.00 0 0 O 0 0 0 Subtotal 4 \$40.00 \$4.00 \$44.00 10,00% Subtotal 5 Profit Subtotal 6 5,00% \$2,20 \$46.20 MATERIALS, SERVICES, OTHER Total Price Unit Description Qty Qty Qty Qty Qty Qty Taxable D 0 0 0 0 0 0 0 Subtotal 7 \$0.00 8.00% \$0.00 Subtotal 8 \$0.00 10,00% \$0.00 \$0.00 \$0.00 \$0.00 OH Subtotal 9



COR - Change Order Request - Trimax Systems COR No. 50

To: Southern Contracting Company

Date:

December 14, 2017

559 N. Twin Oaks Valley Rd.

Job No.:

P-2192

San Marcos, CA 92069

Project: VVWRA

Attention: Steve Vickers

Sub-regional Water Reclamation Plants

Date Required: December 15, 2017

From: Marty McLaughlin Supporting Docs: DC123

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,242.36	Complete as of 12-8-2017	N/A

Subject:

Interlocking Fans with the FACP and providing alarming features.

Each facility requires (Hesperia and Apple Valley):

- Adding (3) Digital Inputs from the fire alarm control panel FACP for trouble, alarm and supervisory.
- Adding (1) Digital Output for fan interlocks.
- Adding (1) 4 pole relay for hardwired fan shutdown interlocks
- Modifying PLC programs, HIMI Programs and SCADA programs to add the new features associated with the new digital inputs from the FACP only and the new digital output for the new added relay.
- Drawing Updates include new loop drawing, modifications to the fan panels to show the added FACP alarm, modifications to the main PLC panel drawings to show the added I/O, modifications to the panel layout drawings to show the added relay.
- Updating testing documents.
- Field installation of the 4 pole relay.
- Point to Point testing.
- Loop testing.
- Operation verification.

This proposal is based on all new I/O is to be wired to existing spare I/O. Existing drawings shall be modified to show these changes.



			Apple Va	lley	/
Taxable					
Materials					
Relay - 4 pole for fan interlocks (10) wires	1	\$	114.60	\$	114.60
Material Cost				\$	114.60
Material Profit			15%	\$	17.19
Sub Total	1			\$	131.79
Sales Taxes	1		7.75%	\$	10.21
Sub Total				S	142.00
Labor	Hours	Ra	te		
Engineering	38.5	\$	160.00	\$	6,160.00
Technician					1,485.00
Truck					
Mileage to/from Sites to/from Brea	539	\$	0.62	\$	334.18
Total Non-Taxable				7	7,979.18
12/14/2017				\$	8,121.18

	Hesper		
1	\$ 114.60	\$	114.60
		\$	114.60
	15%	\$	17.19
		\$	17.19 131.79 10.21 142.00
	7.75%	<u>s</u>	10.21
		\$	142 00
		_	
	\$	\$	

Please issue a change order for \$16,242.36

PCO # 99

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - Modifications to Process **Drain Pump Station Level Indicating Transmitter**

Type: **Contract:** RFC - Request for Change 10942 - Apple Valley

Contractor:

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10942 - Apple Valley

Submitted:

11/26/2017

Submitted To: EADOC-VVWRA-Sub-R - Alton

> Anderson, EADOC-VVWRA-Sub-R -Charles Reynolds, EADOC-VVWRA -Sub-R - Grant Gourley, EADOC

-VVWRA-Sub-R - Juan

Castillo, EADOC-VVWRA-Sub-R -

Lynene Voelker Pending

Status: **Priority:**

High

Internal Priority:

High

Pending On User:

EADOC-VVWRA-Sub-R - Alton

Anderson, EADOC-VVWRA-Sub-R -Lynene Voelker, EADOC-VVWRA

-Sub-R - Juan Castillo

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers, W M Lyles Co

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

11/26/2017

Contractor's PCO #:

Reason:

Unforeseen / Changed Site Conditions

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

813,182.33

Amount Added:

12,210.00

New Approved Amount:

825,392.33

Current Contract Duration:

821

Days Added:

0

New Contract Duration:

eadoc

	P	CO	#	99
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Sub-Regional WRP Projects Sub Regional WRP Projects

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Locations

Element A1 - Apple Valley WRP - Vol4 - 19 - Process Drains Pump Station

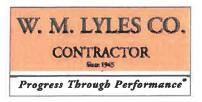
Ref	lai	rai	20	90
ne				63

RFI # 441

Ultrasonic Level Sensor for the Process Drain PS Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Itom.	Description	Es	timated Cost	04	Adjusted Cost
Item	Description		Change	%	Change
1	Labor	\$	693.35		\$ 693.3
2	Materials	\$	-		\$ (*)
3	Equipment	\$	134.75		\$ 134.7
	Trimax	\$	8,305.69		\$ 8,305.6
	Total	\$	9,133.79		\$ 9,133.7
	Markup	\$	1,370.07	15%	\$ 1,370.0
C L .	Subtotal	\$	10,503.86		\$ 10,503.8
Subs 4	Southern Electrical	\$	1,509.37		\$ 1,299.5
		\$			\$ _
		\$			\$ -
		\$			\$ -
	Subcontract Subtotal	\$	1,509.37		\$ 1,299.5
	Subontractro Bond & Ins	\$	15.09	1%	
	Subtotal	\$	1,524.46		\$ 1,299.5
	GC-Subcontractor Markup	\$	76.22	5%	\$ 64.98
	Total	\$	12,104.54		\$ 11,868.3
	Subcontractor OH&P			15%	\$ 194.93
	Subcontractor Bond & Ins			1%	\$ 13.00
	GC Bond & Ins	\$	121.05	1%	\$ 118.68
	Total	_	12,225.59		\$ 12,194.94



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

February 8, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Fresno (559) 268-1540

Subject: TOAV-99 Ultrasonic Level Sensor for the Process Drain PS

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the level sensors in the Process Drain PS. WML deems this change to be additional work and the cost for this change is \$12,210.00. The breakdown of this amount is attached. \$12,194.94

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

Bakersfield (661) 387-1600

Sacramento (916) 375-1833

Visalia (559) 651-1450

W. M. Lyles Co. 42142 Roick Drive

Temecula, CA 92590

Date: 8-Feb-18

Reference #:

Alton Anderson Attention:

WWRA Subregional Plants Project

TOAV-99 Process Drain Pump Station Level Transmitter Mods

Description:

Project:

		Unit I drai Mr Mr Cost Total Mr Cost Eq. Cost Material	I otal MH Cost	Eq. Cost		Subcont.	Total Cost	Cost
	TOAV-99 Process Drain Pump Station Level Transmitt LS	- 10	\$ 693.35	693.35 \$ 134.75 \$ 8,305.69 \$	5.69	1,509.50	69	10.643.29
							6	
							•	
otal Costs		10	\$ 693.35	£ 134.75	\$ 205 GO	69335 \$ 13475 ¢ 8305.60 ¢ 1 EDO ED	L	40.040.00

Subtotal		()	10,643.29
Mark-up - Labor	15%	69	104.00
Mark-up - Equipment	15%	49	20.21
Mark-up - Materials	15%	sə	1,245.85
Mark-up - Subcontractor	2%	69	75.48
Bond	1%	69	120.89
Total This Change Order		u	42 240 00

Comments:

VVWRA Subregional Plants Project

TOAV-99 Process Drain Pump Station Level Transmitter Mods

2/8/2018

	Description			Op FM	Op	Lab FM	Lab	Carp	СМ			
				- F 1 10								
stall Stillin	g Well							10				
					- 4		-				_	
												-
											-	
						- 30						
				/	V- 4						/	
				-	0	0	0	10	0		0	0
				0	0 1		U	10	U		U	0
Name		Rate		Hours		Extension						
p FM		\$84,63		0		\$0.00						
Op		\$81.99		0		\$0.00						
ab FM		\$67.55		0		\$0.00 \$0.00						
.eb Сатр		\$65,23 \$69,33		10		\$693.35						
M M		\$67.98		0		\$0.00						
-	0	\$0.00		D		\$0.00						
	0	\$0.00		0		\$0.00						
	0	\$0.00		0		\$0,00 \$0.00						-
	0	\$0.00 \$0.00		0		\$0.00						
		70.00		10								
				Tot	al Labor =	\$693.35						
3. Equip	mont											
s. Equipi				45.005	40.004	45 404	18.254	35,066	18,278	31.012	30.045	30,628
	Description			15,205	18.284	15.184	10.254	35,000	10,276	31,012	30.045	30.028
ickup				5				35				
								7				
								-		5		
				10			_				-	
_												
							i d					
												-
					_	0	0	0	0	0	0	0
				5	0	0 1	U		U	1 0 1	U	U
lumber	Description			Rate	Hours	Extension						
5.205	Truck			\$26.95	5	\$134.75						
8.284	Yard Truck			\$26.95	0	\$0.00						
5.184	Truck			\$26.95	0	\$0.00						
8.254 5.066	Truck Loader			\$26.95 \$142.00	0	\$0.00 \$0.00						
5.006 8.278	Truck			\$26,95	ő	\$0.00						
0.045	John Deere Backhoe			\$58,53	ō	\$0,00						
0.628	CAT Rental Backhoe			\$39.56	0	\$0.00						
1.012	Skidsteer			\$30.00	0	\$0.00						
				Total Equipme	nt =	\$134.75						
	. —											
C. Materi	ais	0	17.4	p.·		Eulopaine						
		Quantity	Unit	Price		Extension \$0.00						
rimax		1	LS	\$8,305.69		\$8,305.69						
		•		7-1		\$0.00						
						\$0.00						
						\$0.00						

						\$0.00						
				Total Material		8,305,69						
). Subco	ntractor											
		Quantity	<u>Unit</u>	Price		Extension						
	Southern Contracting	1	LS	\$1,509.50		\$1,509,50						
						\$0,00 \$0.00						

Total Subcontract =



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445 (T) 760-744-0760 (F) 760-744-6475 Lic. No. 222252

Cost Proposal/Estimate for Extra Work

				LYLES NO.	
				SCC COR NO.	138
PROJECT:		tor Valley Wastewater Reclamation Authority		SCC JOB NO.	100531
		pregional WRP's		_	
		M. Lyles Co.			
TO:		tention: Grant Gourly			
		142 Roick Drive			
	re	mecula, CA 92590			
THE FOLLOW	ING I	BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPR	ROVAL:		
REFERENCE:	RF	#441B			
DESCRIPTION:	Ult	rasonic Level Sensor for the Process Drain PS			
	(a)	Direct Materials [from Breakdown]	. \$	667	
	(b)	Sales Tax on Materials [8.0% of (a)]	_	53	
	(c)	Direct Labor [from Breakdown]	\$	1,447	
	(d)	Rental Equipment [from Breakdown]	. \$	400	
	(e)	Sales Tax on Rental Equipment [8.0% of (d)]	\$	32	
	(f)	Subcontract & Outside Services [from Breakdown]	\$	-	
	(g)	SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	2,599	
	(h)	Overhead and Profit:			
		Materials [15% of (a)+(b)]	\$	108	
		Direct Labor [15% of (c)]		217	
		Equipment [15% of (d)+(e)]	\$	65	
		Subcontract & Outside Services [15% of (f)]	. \$	-	
	(i)	SUBTOTAL [(g)+(h)]	. \$	2,989	
	(j)	Bond [1.0% of (i)]	. \$	30	
	тот	AL PROPOSAL/ESTIMATE [(i)+(j)]	\$	3,019	
	Esti	mated Time Extension Required TBD	days		
SUBMITTED	BY:	DATF		1/26/2018	ı
		Brendan Bradford DATE:	-	172072010	
APPROVED	RY.	DATE.			

Breakdown of Direct Cost

		MATERIAL		LAB	OR	LAE	BOR		WC PC	UIPME		0
CONTRACTOR WORK ITEMS	QTY	UNIT (\$)	EXT	UNIT (HR)	EXT	UNIT (HR)	EXT			E (\$)		EXT
1 Hesperia												
2 Labor	1 Lot	1		1.00	1.00	8.00	8.00				8	
3 Material	1 Lot		236.54	1.00		0.00	3.00					
4 Truck	1 200	250.54	250.51	1			0.0	10.0	\$ 2	0.00	\$	200.00
5								10.0	7 -	0.00	7	200.00
6												_
7 Apple Valley				1								
8 Labor	1 Lot		-	2.00	2.00	8.00	8.00					-
9 Material	1 Lot		430.51									-
10 Truck			- 1	De	-		>**	10.0	\$ 2	0.00	\$	200.00
11												
12			-		-		**					÷
13			-	1	-		3.00					-
14			-		-		9					7
15			-				100					1
16			-		-		3.53					
			-		-		(2)					-
			-		-							*
			-		-		(*)					
	1		-		-		848					
		,	-		-		588					*
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			-		-							*
	1 1		-		-		•					
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			-		-		.					*
			-		•		-					3
			-		-		•					9
			-		1		•					÷
				TOTAL HRS	3.00	TOTAL HRS	16.00					
				RATE / HR	\$81.24	RATE / HR	\$75.19					
TOTAL CONTRACTOR'S WOR	K	\$	667.05	\$	243.72	\$	1,203.04	\$	Ţ.			400.00
				TOTAL HRS		s	1,446.76					

SUBCONTRACTOR WORK ITEMS	QTY	MATE	RIAL	LA	BOR	LAI	OR		EQUIPMEN	(T
SUBCONTRACTOR WORK ITEMS	Qii	UNIT (\$)	EXT	UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
		1 1								
TOTAL CURCONTRACTORS WA	NDI/						7417			
TOTAL SUBCONTRACTOR'S WO	/KK	2		3		5	-	3		

Item#	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set:	Combined, Combined, Combined, Combine	d, Combined			\$236.54
Cost Code	: 010 - Conduit/Raceway				\$200.41
2,614	1/4x1" SS SCREWS	6.00	\$28.88	С	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	С	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	С	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	С	\$0.44
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code:	020 - Wire/Cable				\$13.13
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	М	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code:	140-Instrumentation				\$23.00
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	Ε	\$10.00
60,139	End Anchors	2.00	\$1.50	E	\$3.00
					\$236.54

Item #	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set: (Combined, Combined, Combined, Combine	ed, Combined			\$430.51
Cost Code:	010 - Conduit/Raceway				\$394.38
2,614	1/4x1" SS SCREWS	6.00	\$28.88	С	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	С	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	С	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	С	\$0.44
3,804	1/2 FLEX WP	2.00	\$178.20	С	\$3.56
3,905	1/2" FLEX WP OCAL STR CONN	6.00	\$31.74	E	\$190.41
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code:	020 - Wire/Cable				<u>\$13.13</u>
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	М	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code:	140-Instrumentation				\$23.00
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	E	\$10.00
60,139	End Anchors	2.00	\$1.50	Е	\$3.00
					<u>\$430.51</u>



COR – Change Order Request - Trimax Systems COR No. 51

WM Lyles To:

Date:

February 6, 2018

42142 Roick Drive

Job No.:

P-2192

Temecula, CA 92590

Project:

VVWRA

Attention: Grant Gourley

Sub-regional Water Reclamation Plants

Date Required: December 15, 2017

From: Marty McLaughlin

Supporting Docs: RFI441B

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,611.38	Complete as of 1-29-2018	N/A

Subject: Time and Material as required

Date	Day	Eng/Tech	Hi	purs		Reg	Ov	ertime	M	leage					
			Travel	On-Site	Hours	Rate	Hours	Rate	To Site	From Site	IRS	+ 15%	Hotel + 15%	Per Diem	Totals
12/22/201	7 Friday	Marvin	3	6.5	8	\$ 110.00	1.5	\$ 165.00	79	79	\$	0.62		Ś	1,225.4
12/22/2017	7 Friday	George	3	6.5	8	\$ 160.00	1.5	\$ 240.00	79	79	\$	0.62		Ś	-
1/11/2018	B Thursday	Marvin	3	7	8	\$ 110.00	2	\$ 165.00	79	79	\$	0.62		s	-
1/15/2018	B Monday	Marvin	3	9	8	\$ 110.00	4	\$ 165.00	79	79	\$	0.62		Ś	
1/24/2018	8 Wednesday	Marvin	3	2.5	5.5	\$ 110.00	0	\$ 165.00	79	79	\$	0.62		5	702.9
1/24/2018	Wednesday	George	3	2.5	5.5	\$ 160.00	Ð	\$ 240.00	79	79	\$	0.62		S	977.9
1/25/2018	3 Thursday	George	3	7.75	8	\$ 160.00	2.75	\$ 240.00	79	79	\$	0.62		Ś	2,037.9
1/25/2018	3 Thursday	Maria	0	7	7	\$ 160.00	0	\$ 240.00	0	0	\$	0.62		Ś	1,120.0
1/29/2018	3 Monday	Marvin	3	2	5	\$ 110.00	Ð	\$ 165.00	79	79	\$	0.62		\$	647.9
1/29/2018	Monday	George	3	2	5	\$ 160.00	0	\$ 165.00	79	79		\$0.62		\$	897.9
oforonco D	-2192 COR-51														
eletetive r	-5135 COK-31														
							_				_	_		5 :	12,294.14

Quantity	ttem	Description	U	nit Price		Amount
		TAXABLE				
1	1	FMB53-AA21JD1CGE25B2 Hydrostatic Level Transmitter 65 ft,	\$	1,685.34	\$	1,685.34
		Cable Tag #APL-LE/LIT-7705				
1	2	FMB53-AA21JD1CGE25B2	\$	1,701.74	\$	1,701.74
		Hydrostatic Level Transmitter 75 ft.				
		Cable Tag #HES-LE/LIT-7705				
2	3	PS5R-VA24	s	26.25	s	52.50
		IDEC PWR SUPPLY 24VDC 0.3A 7.5W DIN MTD				
		Reference P-2182 COR-61				
		Reference P-2182 COR-61 Sub Total			\$	3,439.58
				15.00%		3,439.58 515.94
		Sub Total		15.00%		
		Sub Total Material Profit -		15.00%	\$	515.94
		Sub Total Material Profit - Material Sub Total			\$	515.94 3,955.52
		Sub Total Material Profit - Material Sub Total Sales Tax -	Eleage (see	7.75%	\$ \$ \$	515.94 3,955.52 306.55

Please issue a change order for \$16,611.38

16,611.38

PCO # 103

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - Provide water for all

testing at the WRP

Type:

Contract: Contractor:

ISO Currency Code:

Purchase Order:

RFC - Request for Change

10942 - Apple Valley W M Lyles Co

USD

Contract # 10942 - Apple Valitatus:

Submitted: 12/07/2017

Submitted To: EADOC-VVWRA-Sub-R - Alton

> Anderson, EADOC-VVWRA-Sub-R -Grant Gourley, EADOC-VVWRA-Sub -R - Juan Castillo, EADOC-VVWRA

-Sub-R - Lynene Voelker

Priority: Medium

Pending On User: EADOC-VVWRA-Sub-R - Alton

Pending

Anderson, EADOC-VVWRA-Sub-R -Lynene Voelker, EADOC-VVWRA

-Sub-R - Juan Castillo

Pending On Org: Victor Valley Wastewater

Reclamation Authority, Carollo

Engineers, W M Lyles Co

Created By:

MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created:

12/07/2017

Contractor's PCO #:

Reason:

Contractor Request

Requested By:

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 813,182.33 **Amount Added:** 27,765.10 **New Approved Amount:** 840,947.43 **Current Contract Duration:** 821 Days Added: 0

New Contract Duration:

821

Budget: Funding:

Cost Item:

17-45

eadoc

D	00	#	1	01	2
Г	JU	77		U	J

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4

R	ef	e	re	ni	26	2
11 15		•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

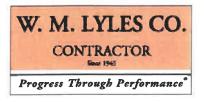
Correspondence # 148

PCO for Testing Water

Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Es	timated Cost	0.4	P	djusted Cost
item	Description		Change	%		Change
1	Labor	\$	7-		\$	-
2	Materials	\$	23,904.53		\$	23,904.5
3	Equipment	\$			\$	-
					\$	-
	Total	\$	23,904.53		\$	23,904.5
	Markup	\$	3,585.68	15%	\$	3,585.6
iubs	Subtotal	\$	27,490.21		\$	27,490.2
4	Trimax	\$	-		\$	
		\$	-		\$	-
		\$	-		\$	
		\$	_		\$	_
	Subcontract Subtotal				\$	
					Ş	
	Subontractro Bond & Ins	\$	-	1%		
	Subtotal	\$	-		\$	-
	GC-Subcontractor Markup	\$	-	5%	\$	
	Total	\$	27,490.21		\$	27,490.2
	Subcontractor OH&P			15%	\$	
	Subcontractor Bond & Ins			1%	\$	-
	GC Bond & Ins	\$	274.90	1%	\$	274.90
	Total	\$	27,765.11		\$	27,765.11



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 16, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-103 Provide Water for Commissioning

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to provide the needed water for the commissioning of the Apple Valley WRP. WML deems this change to be additional work because the contract states the owner is to provide the need water for commissioning. The cost to purchase water for commissioning from 10/20/17 to 12/20/17 is \$27,765.10. The breakdown of this amount is attached.

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.



Liberty Utilities Apple Valley, CA 92307-0711 P.O. Box 7005

Office Location: 21760 Ottawa Road Walk-in Office Hours: M-F Bam - 5 pm General Office or Emergency: (760) 247-8484 24 hour automated information line (803) 481-9190 Please visit our website @ www.libertyutilities.com

017225 Account Number:

244807 Customer Number:

7201 HYDRANT METER-41143007

COMMERCIAL/REGULAR 10/20/2017 to 12/20/2017

fater Usage (in Hundred Cubic Feet) . istallant :

12/20/2017

Current Water Charges

Surcharge 216-W-A Surcharge 223-W **CARW Surcharge** Water Usage Charge (4,562 CCF * \$ 4.5180) Service Charge

\$20,611.12 \$694.50 **CA Public Utilities Commission Fee** \$339.34 TOTAL CURRENT WATER CHARGES

JAN 0 8 2018

Special Message

\$23,904.63

\$1,961.66

\$298.53

\$1,38

Service From: 10/20/2017 To: 12/20/2017 **Meter Number** 00017201

Service Address: Type of Service:

Bervice Period:

Service Information

Date of Bill:

Meter Size

61 days Previous Read Current Read 5965 10627 10527

Usage 4562 1 CCF = 748 Gallons

1 unit = 100 Cubic Feet (CCF) of Water Amount Due

> \$705.90 -\$705.90

Payment - Thank You

Previous Balance

\$23,904,53

TOTAL AMOUNT DUE DUE BY 01/09/2018

TOTAL CURRENT WATER CHARGES

\$23,904.53

and the state of the

Job # / Eq # _____

A late fee will be applied if the current charges are not paid by 1/24/2018

Cost Code

Agreed to the

Cost Code _____

WML Markup 15% - \$3,585.67 WML Bond 1% - \$274.90 Total - \$27,765.10

Return this portion with your payment.

P.O. Box 7005 Liberty Utilities Apple Valley, CA 92307-0711

> Office Location: 21760 Ottawa Road Walk-in Office Hours: M-F 8am - 5 pm General Office or Emergency: (760) 247-6484 24 hour automated information line (800) 481-9190

Account Number: **Customer Number:** Service Address:

Type of Service: Due Date:

017225

7201 HYDRANT METER-41143007 COMMERCIAL/REGULAR

01/09/2018

\$23,904.53

Amount Due

PWX0104A 4000000007 7/1

վիրումըիսանիրինիրարկութին այլիրինիրինումը և



WM LYLES CO. P.O. BOX 4377 FRESNO CA 93744-4377 LIBERTY UTILITIES PO BOX 6005 ARTESIA, CA 90702-6005

Ունոյցիկ[[թոլվահում ընկարգիլիկոնիկինիկ][[ոմինվալ]նդիալ]

PCO # 104

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - Area Mediation

Type: Contract: RFC - Request for Change 10942 - Apple Valley

Contractor: **ISO Currency Code:** W M Lyles Co

Purchase Order:

USD

Contract # 10942 - Apple Valleyision Date:

Submitted:

Submitted To:

Status: **Priority:**

Due Date:

12/19/2017

EADOC-VVWRA-Sub-R -

Alton Anderson, EADOC -VVWRA-Sub-R - Grant

Gourley, VVWRA-Sub-R - Ted

Luiten,W M Lyles Co

Pending Low

01/23/2018

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

12/19/2017

Contractor's PCO #:

Reason:

Owner Request

Requested By: Owner

Change Date:

12/19/2017

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

813,182.33

Amount Added:

35,545.00

New Approved Amount:

848,727.33

Current Contract Duration: Days Added:

821

0

New Contract Duration:

821

Budget: Funding:

Cost Item:

Proposed Design Change Summary:

Prior to the construction of the WRP at Brewster Park existing facilities were demolished for construction operations and the new WRP facility.

PCO # 104

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4

Files

2.6 MB

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

tem	Description	Es	timated Cost	%	Adjusted Cost
tem	Description		Change	70	Change
1	Labor	\$	14,703.75		\$ 14,703.7
2	Materials	\$	6,860.00		\$ 6,860.0
3	Equipment	\$	3,560.72		\$ 3,560.7
					\$
	Total	\$	25,124.47		\$ 25,124.47
	Markup	\$	3,768.67	15%	\$ 3,768.67
ubs	Subtotal	\$	28,893.14		\$ 28,893.14
4	Fencore	\$	6,055.34		\$ 5,213.38
		\$	-		\$ -
		\$	-		\$ -
		\$			\$ _
	Subcontract Subtotal	\$	6,055.34		\$ 5,213.38
	Subontractro Bond & Ins	\$	60.55	1%	
	Subtotal	ċ	6,115.89		\$ F 242 26
					5,213.38
	GC-Subcontractor Markup	\$	305.79	5%	\$ 260.67
	Total	\$	35,314.83		\$ 34,367.19
	Subcontractor OH&P			15%	\$ 782.01
	Subcontractor Bond & Ins			1%	\$ 52.13
	GC Bond & Ins	\$	353.15	1%	\$ 343.67
	Total	_	35,667.98		\$ 35,545.00



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

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January 18, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-104 Area Mediation

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to provide seven (7) horseshoe pits at Brewster Park. The horseshoe pits will be constructed to the specifications provided and include 275 If of fencing around it. The cost to complete this work is \$35,545.00. The breakdown of this amount is attached.

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

Corporate Office: 1250 W. Olive, Fresno, CA 93728 Telephone: (559) 441-1900 • Fax (559) 487-7958

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

Date: 18-Jan-18

Reference #:

AltonAnderson

Attention:

Project:

VVWRASubregionalPlantsProject

TOAV-104 Area Mediation Description:

		JED C	Unit lotal MH Cost lotal MH Cost Eq. Cost Material	i otal MH Cost	Eq. Cost	Material	Subcont.	int.	Total Cost	Cost
-	Area Mediation	rs S	208 -	\$ 14,703.75 \$ 3,560.72 \$ 6.860.00 \$ 6.000.00 \$	\$ 3,560.72	\$ 6.860.0	S	00.000		31 124 47
		SJ					65			1, 15
									•	
Total Costs			208	\$ 1470375 \$ 3 56072 \$ 6 860 00 \$ 6 000 00 \$	\$ 3 560 72	A A A A	6	00000	6	17 107 10

Subtotal		49	31,124.47
Mark-up - Labor	15%	69	2,205.56
Mark-up - Equipment	15%	69	534.11
Mark-up - Materials	15%	69	1,029.00
Mark-up - Subcontractor	2%	€9	300.00
Bond	1%	49	351.93
Total This Change Order		69	35.545.00

Comments:

TOAV-104

1/18/2018

Description	OpFM	Op	Lab FM	Lab	Carp	CM		
Fine Grade Pit Area & Excavate Footings & Pits'		16			26			
Form/Pour Concrete Pits					96	16		
nstall Backboards					14		2.5	
Install Post					16	100		-
Install Sand		8			16			
		-	V					
	0	24	0	0	168	16	0	0

<u>Name</u>	<u>Rate</u>	<u>Hours</u>	Extension
Op FM	\$84.63	0	\$0,00
Op	\$81.99	24	\$1,967.76
Lab FM	\$67.55	0	\$0.00
Lab	\$65.23	0	\$0.00
Carp	\$69.33	168	\$11,648.26
CM	\$67.98	16	\$1,087.73
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
		208	

Total Labor = \$14,703.75

B. Equipment

Description	15.205	18.284	15.184	18.254	35.066	18.278	31.012	30.045	30.628
Fine Grade Pit Area & Excavate Footings & Pits'	16							16	
Form/Pour Concrete Pits	40					0	J. 20		
Install Backboards	8								
Install Post	8								1
Install Sand	8							8	
	80	0	0	0	0	0	0	24	0

Number	<u>Description</u>	Rate	Hours	Extension
15.205	Truck	\$26,95	80	\$2,156.00
18.284	Yard Truck	\$26.95	0	\$0.00
15.184	Truck	\$26.95	0	\$0.00
18.254	Truck	\$26,95	0	\$0.00
35.066	Loader	\$142.00	0	\$0.00
18.278	Truck	\$26.95	0	\$0.00
30.045	John Deere Backhoe	\$58.53	24	\$1,404.72
30.628	CAT Rental Backhoe	\$39.56	0	\$0.00
31.012	Skidsteer	\$30.00	0	\$0.00

Total Equipment = \$3,560.72

C. Materials

	Quantity	Unit	Price	Extension
Material	14	EA	\$55.00	\$770.00
Concrete	30	QY	\$110.00	\$3,300.00
Wood Backboards	14	EΑ	\$100,00	\$1,400.00
Sand	1	LS	\$500.00	\$500,00
Hose	1	LS	\$40.00	\$40,00
Rubber	14	EA	\$25.00	\$350.00
Reinforcing	1	LS	\$500.00	\$500.00
				\$0,00
				\$0.00
				\$0.00
			Total Material =	6,860,00

D. Subcontractor

	Quantity	Unit	Price	Extension
Fencing	1	LS	\$6,000.00	\$6,000,00

\$0,00

Total Subcontract = \$6,000.00

PCO # 105

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - DC-43R Modification to **Exhaust Fan Control Strategy**

Type:

RFC - Request for Change Revision Date:

Contract: Contractor: 10942 - Apple Valley W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10942 - Apple Valley

Submitted: Submitted To: 01/09/2018 W M Lyles Co

Status: **Priority:** Pending

Medium

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

01/09/2018

Contractor's PCO #:

Reason:

Design Omissions

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

HVAC

Approved Thru Last:

813,182.33

Amount Added:

13,727.31 826,909.64

New Approved Amount: Current Contract Duration:

821

Days Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Proposed Design Change Summary:

Design Change -043R modified the control strategy for various HVAC fans and A/C units throughout the facility. WM Lyles' integration and control panel builder fabricated two fan control panels, 03-LCP-001 and 08-LCP-001, as a result of the DC change order.

D	C		#	4	05
Г		O	#		UJ

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4 - 05 - Operations Room

Element A1 - Apple Valley WRP - Vol4 - 02 - Chemical Feed Room

n.	_4	_	-	_	_	es
-	ш	eı	12	ш		

DCM # 43.A Exhaust Fan Control Strategies Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Es	Estimated Cost		Adjusted Cost
item	Description		Change	%	Change
1	Labor	\$			\$ -
2	Materials	\$	-		\$ -
3	Equipment	\$			\$
	Trimax	\$	11,191.84		\$ 11,191.8
	Total	\$	11,191.84		\$ 11,191.8
	Markup	\$	1,678.78	15%	\$ 1,678.7
vy lon	Subtotal	\$	12,870.62		\$ 12,870.6
ubs 4		\$	-		\$ -
		\$	-		\$ _
		\$			\$
	Trimax				
		\$	-		\$ -
	Subcontract Subtotal	\$	-		\$
	Subontractro Bond & Ins	\$	-	1%	
	Subtotal	\$			\$ -
	GC-Subcontractor Markup		-	5%	
	Total	\$	12,870.62		\$ 12,870.6
	Subcontractor OH&P			15%	\$ -
	Subcontractor Bond & Ins			1%	\$ -
	GC Bond & Ins	\$	128.71	1%	\$ 128.7
	Total	\$	12,999.32		\$ 12,999.32



California Contractor's License No. 422390

Southern Division - **Temecula Office**42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

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January 17, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-105 – DC 43R Modifications to Exhaust Fans

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC 43R to make panel modifications and control changes to the Exhaust Fans. Trimax originally submitted cost associated for DC 43 at Hesperia only. Below is the cost incurred for making the modifications in Apple Valley.

Trimax

\$11,191.84

WML Markup

\$1,678.77

WML Bond

\$128.70

Total

\$13,727.31

\$12,999.32

The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive

W.M. Lyles Co.



COR - Change Order Request - Trimax Systems COR No. 46 Rev 1

To: **Southern Contracting Company** Date:

January 17, 2018

559 N. Twin Oaks Valley Rd.

Job No.:

P-2192

San Marcos, CA 92069

Project:

Victor Valley Wastewater Reclamation

Authority

Attention: Steve Vickers

Subregional Water Reclamation Plants

Date Required: September 1, 2017

From: Brian Bryce

Supporting Docs: DC 043R

Drawing Ref.: 03-E-06, 03-E-06A, 03-E-07, 09-E-02,

Spec Ref.:

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Fixed Price — Apple Valley	\$11,191.84	NA	10 working days

Subject:

Proposal for Design Changes 043R, Exhaust Fan and Sump Pump Schematics for Apple Valley

WRP Exhaust /Supply Fan System Control Panel #03-LCP-001 and 08-LCP-001

Apple Valley WRP

Taxable

Apple Valley WRP Breakout Total				\$	11,191.84
Total Non-Taxable				\$	5,853.47
Truck Mileage (1.5) R.T @ 79 miles Brea to Site	118.5	\$	0.62	\$	73.47
Field Point to Points	2	\$	110.00	\$	220.00
Field Loop Checks	4	\$	110.00	\$	440.00
Start-up	4	\$	160.00	\$	640.00
SCADA Programming Changes	4	\$	160.00	\$	640.00
HMI Programming Changes	4	\$	160.00	\$	640.00
PLC Programming Changes	4	\$	160.00	\$	640.00
Loop Drawings	10	\$	160.00	\$	1,600.00
Panel Testing	2	S	160.00		320.00
Testing Documents	4	98	160.00	\$	640.00
Labor	Hours	Ra	te		
Non Taxable		_		_	
Sub Total				\$	5,338.37
Sales Taxes			7.75%	\$	383.97
Sub Total				\$	4,954.41
Drawing Changes and New Drawings	3	S	160.00	\$	480.00
Assembly	20	\$	75.00	\$	1,500.00
Material Profit			15%	\$	387.97
Material Cost				S	2,586.44
Panel Parts (08-LCP-001)			1,419.30	\$	1,419.30
Panel Parts (03-LCP-001)	1	\$	1,167.14	S	1,167.14
Materials					

Please issue a change order for \$11,191.84 for the above requested changes.

PCO # 106

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - MBR Basin Drain 16" Knife Gate Valve Body Change

Type: Contract:

10942 - Apple Valley

Contractor:

ISO Currency Code: USD

Purchase Order:

RFC - Request for Change

W M Lyles Co

Contract # 10942 - Apple Valley

Submitted: 01/09/2018

Submitted To: Victor Valley Wastewater

Pending

Reclamation Authority, W M Lyles Co

Status: **Priority:**

High

Pending On Org:

Victor Valley Wastewater

Reclamation Authority

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

01/09/2018

Contractor's PCO #: PCO-106

Reason:

Design Errors

Requested By: Owner

Change Date:

01/09/2018

Schedule ID:

Not to Exceed \$:

0.00

Set:

Mechanical

Approved Thru Last: 813,182.33 **Amount Added:** 22,330.58 **New Approved Amount:** 835,512.91 **Current Contract Duration:** 821 Days Added: 0

New Contract Duration:

821

Budget: Funding:

Cost Item:

Proposed Design Change Summary:

Each MBR Basin has a 16" Knife Gate Vale for draining the basins. The valves specified and supplied are metal to metal seating, which has an allowable leakage per AWWA. Under the low head conditions of the MBR Basins the daily leakage is too excessive causing operational issues in maintaining a high mix-liquor concentration required to operate the MBR system.

PCO # 106

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

MBR System Provider, Anaergia, has contacted the valve manufacturer and a recommendation to replace the valve body with a resilient seated valve has been excepted as a fix resolving the leakage issue.

Please provide two resilient seated knife gage valve bodies to be used with the existing motorized operators already in place.

Locations

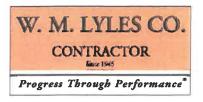
Element A1 - Apple Valley WRP - Vol4 - 03 - Membrane Filtration Basins

Files

RE_ Hesperia Problems.pdf 1.2 MB
Cutsheet_KGC-ES.PDF 551.16 KB
Brochure_KGC-ES.PDF 685.02 KB

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Item	Description	Es	timated Cost	%	1	Adjusted Cost
iteiii	Description		Change	%		Change
1	Labor	\$	-		\$	-
2	Materials	\$			\$	-
3	Equipment	\$	-		\$	-
4	Anaergia	\$	19,225.64		\$	19,225.6
	Total	\$	19,225.64		\$	19,225.6
	Markup	\$	2,883.85	15%	\$	2,883.8
Subs	Subtotal	\$	22,109.49		\$	22,109.4
uns		\$	-		\$	-
		\$	-		\$	
		\$	-		\$	
		\$	-		\$	
	Subcontract Subtotal	\$	•		\$	
	Subontractro Bond & Ins	\$	-	1%		
	Coltradi	_			_	
	Subtotal				\$	·
	GC-Subcontractor Markup	\$	•	5%	\$	
	Total	\$	22,109.49		\$	22,109.4
	Subcontractor OH&P			15%	\$	
	Subcontractor Bond & Ins			1%	\$	-
	GC Bond & Ins	\$	221.09	1%	\$	221.09
	Total	\$	22,330.58	сон	\$	22,330.58
				TOAV	\$	22,330.58



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

Visalia (559) 651-1450

An Equal Opportunity Employer

January 12, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-106 Knife Gate Valve Replacement

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the Knife Gate Vales that drain the Membrane Tanks. WML deems this change to be additional work and received pricing from Anaergia to complete this work. The attached pricing include furnish and install of these new valves. The cost for this change is \$22,330.58. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.



Anaergia DB Inc.

4210 South Service Road Burlington, ON L7L 4X5

Canada

W.M. Lyles Co.

42142 Roick Drive

Phone: (905) 766-3333

Change Order

Date	C.O. No.
11/28/2017	VVWRA_CO_MBR_17_09

Cost Code/PCS 155

37,651.28

800.00

11/28/201/	VVWRA_CO_MBR_17
2	

Ship To

Anaergia DB Inc. 4210 South Service Road

Burlington, ON L7L 4X5

Canada

Contact: Trevor Shackelford Phone: (760) 885-5003

Email: trevor.shackelford@anaergia.com

Temecula, Ca 92590 Contact: Grant Gourley Phone: 9517604169 Email: ggourley@wmlylesco.com

Vendor

	Terms Expected Ship Via					Project Num	ber	Co
	NET 30	6-8 Weeks	FOB Job Sit	te		8229A10		L
		Description	Arrive V	Qty		Rate		Amount
1) Desurik KGC-ES (Cast Stainless Steel Knife Gate) - 16" ANSI 150 Flanged, 3.5" Lay Length - Body: 316 SS, ASTM A351 CF8 - Packing: PTFE Braided Packing - Gate: 316 SS, ASTM A240 - Seat Ring: EPDM - Resilient Seated (Leak Tight/Drip Tight) - Rated form 0 to 150 psi - Direct Swap to existing Actuator				4	\$	9,412.82	\$	
2)	Function ⁻	Testing/Inspection by M	anufacturer	1	\$	800.00	\$	
1					١,	N	mate a 7	620 45

Anaergia Total \$38,451.28 WML Markup 15%: \$5,767.69 *Price includes taxes and freight costs WML Bond 1%: \$442.19 WML Total: \$44,661.16 \$22,330.58 COH -TOAV \$22,330.58 VENDOR TO PROVIDE WORK AND MATERIALS, WHICH WILL BE MADE

PAYABLE PURSUANT TO MEMBRANE SYSTEM PROCUREMENT PACKAGE AGREEMENT VOLUME 9 OF 10.

Anaergia P&ID attached for reference

GST/HST No. 81503 4400 RT0001 Total

USD 38,451.28

Web Site www.anaergia.com

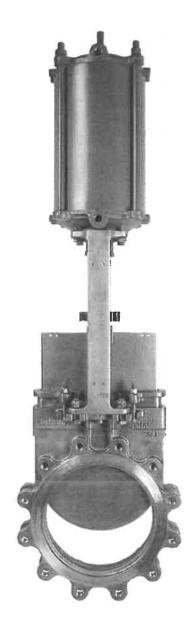
Phone # (905) 766-3333

Approval Date:

11/28/2017



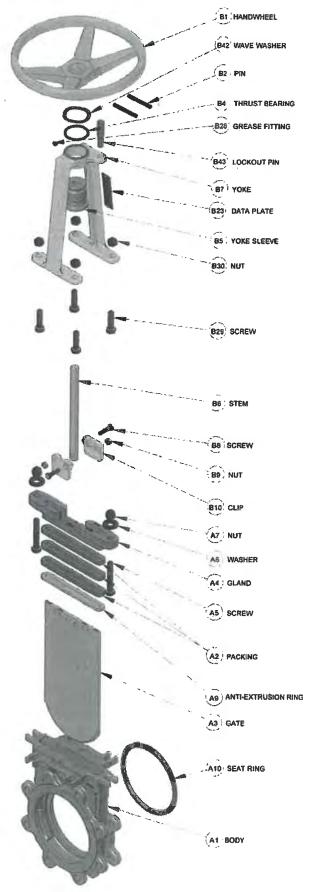
DeZURIK KGC-ES EXTENDED SERVICE LIFE CAST STAINLESS STEEL KNIFE GATE VALVES TECHNICAL SPECIFICATIONS



17-66

Materials of Construction

ltem	Description	Material Material					
		304 Stainless Steel, ASTM A351 CF8					
		316 Stainless Steel, ASTM A351 CF8M					
A1	Body	317 Stainless Steel, ASTM A351 CG8M					
	,	254-SMO Stainless Steel, ASTM A351 CK3MCuN					
		2205 Duplex Stainless Steel, ASTM A890 CD3MN					
		Hastelloy C 276, ASTM A494 CW12MW					
		ASP - Self-Adjusting PTFE Braided Packing with AFLAS					
		Fluoroelastomer Cord to 400°F (205°C) (pH Range 0-14)					
		SMP - PTFE Braided Packing to 500°F (260°C) (pH Range 0-14)					
		TDP - Dry Service, Dry PTFE Braided Packing with Solid					
		PTFE Cord to 500°F (260°C) (pH Range: 0-14)					
A2	A2 Packing	HTP - High Temperature Braided Packing to 650°F (343°C					
	/	(pH Range: 1-12)					
		HMP - High Temperature Braided Packing with Metal					
		Scraper Ring to 1000°F (540°C)					
		(pH Range: 3-10)					
		FGP - Food Grade Service to 450°F (232°C)					
_		(pH Range: 3-11)					
		304 Stainless Steel, ASTM A240					
		316 Stainless Steel, ASTM A240					
		317 Stainless Steel, ASTM A240 17-4 Stainless Steel H900 Heat Treated, ASTM A564					
A3	Gate	254 - SMO Stainless Steel, ASTM A240					
		2205 Duplex Stainless Steel, ASTM A276 Hastelloy C 276, ASTM B574					
		410 Stainless Steel, ASTM A240					
A4	Gland	Matches Body Material					
A5	Screw	304 Stainless Steel					
A6	Washer	304 Stainless Steel					
A7	Nut	304 Stainless Steel					
		PTFE, Glass Filled to 500°F (260°C) (pH Range 0-14). Used					
		with SMP, TDP, ASP and FGP packing.					
A9	Anti-Extrusion Ring	Square Braid with weave of fully-annealed copper wire scrapers to 1000°F (540°C) (pH Range 3-10). Used with					
7.5	And Extrasion ring	HMP packing.					
		Carbon Fabric Reinforced Graphite to 800°F (427°C)					
		(pH Range 1-12). Used with HTP packing.					
		CR - Chloroprene to 180°F (83°C)					
- 4		NBR - Acrylonitrile-Butadiene to 180°F (83°C)					
		EPDM - Terpolymer of Ethylene, Propylene and a Diene					
		to 250°F (122°C)					
A10	Seat Ring*	FKM - Fluoro Rubber to 400°F (204°C)					
110	Seat ring	17-4 PH Stainless Steel H900 Heat Treated					
		CRW - Chloroprene, Off White to 140°F (60°C)					
		PTFE - Polytetrafluoroethylene, white to 450°F (230°C)					
		Reinforced PTFE - Polytetrafluoroethylene,					
		to 500°F (260°C)					
B1	Handwheel	Painted, Cast Iron					
B2	Roll Pin	Carbon Steel or 420 Stainless Steel					
B4	Thrust Bearing	Oil Impregnated Bronze					
B5	Yoke Sleeve	Aluminum Bronze					
	Stem	304 Stainless Steel Cast Steel or 304 Stainless Steel					
	Yoke						
	Screw	Zinc Plated Steel or 18-8 Stainless Steel Zinc Plated Steel or 18-8 Stainless Steel					
	Nut Clip	304 Stainless Steel					
	Data Plate	316 Stainless Steel					
_	Grease Fitting	Zinc Plated Steel					
	Screw	Zinc Plated Steel Zinc Plated Steel or 18-8 Stainless Steel					
	Nut	Zinc Plated Steel or 18-8 Stainless Steel					
	Wave Washer	304 Stainless Steel					
226							
B43	Lockout Pin	304 Stainless Steel					



^{*}The replaceable Seat Ring is standard on resilient-seated valves and optional on metalseated valves. The standard integral metal seat matches the body material.

Valve Selection Shut-Off Capabilities

	Leak tight/drip tight
Metal Seats	Meet MSS SP-81 and TAPPI TIS 405-8

Pressure Ratings

2-48" (50-1200mm)	150 psi C.W.P. (1030 kPa)
Optional 30 & 36" (750 & 900mm)	100 psi C.W.P (690 kPa)

Notes: Valve can handle Full Reverse Pressure without damage.

Valves with Chloroprene, off white seats are limited to 50 psi (350 kPa). Contact DeZURIK with service conditions.

Flow Parameters Round Port

Valve Size	Cv* Kv* 100% Open	K** (resistance)	Port Area (in²/cm²)		
2"	300	0.16	3.1		
50mm	260		20		
3 <u>°</u>	<u>675</u>	0.16	7.1		
80mm	584		46		
<u>4*</u>	1200	0.16	<u>12.6</u>		
100mm	1040		81		
<u>5°</u>	<u>1900</u>	0.16	<u>19.6</u>		
125mm	1640		126		
<u>6°</u>	2700	0.16	28.3		
150mm	2340		183		
8"	4800	0.16	50.3		
200mm	4200		325		
10°	7500	0.16	<u>78.5</u>		
250mm	6500		506		
12"	10800	0.16	<u>113</u>		
300mm	9300		729		
14"	13200	0.16	138		
350mm	11400		890		
16"	17400	0.16	183		
400mm	15100		1180		
18"	22300	0.16	234		
450mm	19300		1510		
20"	27800	0.16	2 <u>91</u>		
500mm	24000		1880		
22"	34000	0.16	<u>355</u>		
550mm	29400		2290		
24"	40500	0.16	<u>425</u>		
600mm	35000		2740		
26"	47800	0.16	501		
650mm	41300		3230		
28"	55600	0.16	<u>583</u>		
700mm	48100		3760		
30°	64000	0.16	<u>672</u>		
750mm	55400		4340		
32"	73000	0.16	<u>767</u>		
800mm	63100		4950		
36"	93000	0.16	976		
900mm	80400		6300		
42"	126000	0.16	1336		
1050mm	109000		8620		
48"	165000	0.16	1750		
1200mm	142700		11290		

*Cv = Flow in GPM of water at 1 psi pressure drop.
Kv = Flow in m3/hr. of water at 100 kPa pressure drop.
** K = The resistance coefficient of the valve. The constant (K)
can be used to determine the equivalent length of pipe.

 $\begin{array}{lll} \text{L=} \underbrace{\text{KxD}} & \text{Where} & \text{L} & = & \text{Equivalent length of pipe in feet} \\ & \text{f} & \text{K} & = & \text{Resistance coefficient} \\ & \text{D} & = & \text{Pipe diameter in feet} \\ & \text{f} & = & \text{Friction factor, related to type of pipe} \end{array}$

Applicable Standards

	Knife Gate Valves are designed neet the following standards:
MSS SP-81	Metal Seated Valves, Stainless Steel, Bonnetless, Flanged Knife Gate Valves
ANSI B16.5 2-24" (50-600mm)	Flanges and Flanged Fittings, ANSI 150 Conforms to related drilling dimensions
ANSI 16.47 26-48" (650-1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions
International Standards	Conforms to flanged bolt guides — JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN10 and 7005-2/PN16; BS 4504/ PN10 and BS 4504/PN16; and AS 2129 Tables D and E SANS 1123-1900 and SANS 1123-1800
TAPPI TIS 405-8	Recommendations for Stainless Steel, Bonnetless, Flanged, Wafer Knife Gate Valves. Revoked by TAPPI, Same as MSS SP-81

Flow Parameters V-port 60 Degrees

Valve Size	Cv* Kv* 100% Open	K** (resistance)	Port Area (in²/cm²)		
<u>2"</u>	<u>89</u>	1.80	<u>1.9</u>		
50mm	77		12		
<u>3"</u>	210	1.63	4.3		
80mm	584		28		
<u>4"</u>	386	1.53	7.7		
100mm	330		50		
<u>5"</u>	665	1.27	<u>11.5</u>		
125mm	580		74		
<u>6"</u>	900	1.42	<u>17.2</u>		
150mm	780		111		
<u>8"</u>	<u>1660</u>	1.32	<u>30,6</u>		
200mm	1400		197		
<u>10"</u>	2320	1.65	<u>42.0</u>		
250mm	2000		271		
<u>12"</u>	3490	1.52	61.9		
300mm	3000		399		
<u>14"</u>	4650	1.27	<u>80.8</u>		
350mm	4000		521		
<u>16"</u>	6110	1.29	106		
400mm	5300		680		
<u>18"</u>	8000	1.23	138		
450mm	6900		890		
<u>20*</u>	10100	1.20	<u>170</u>		
500mm	8700		1100		
<u>22"</u>	<u>11900</u>	1.28	213		
550mm	10300		1370		
24"	<u>15100</u>	1.14	<u>250</u>		
600mm	13100		1610		
<u>26*</u>	<u>16800</u>	1.28	300		
650mm	14500		1940		
<u>28"</u>	<u>19500</u>	1.29	350		
700mm	16900		2260		
<u>30"</u>	23900	1.14	<u>389</u>		
750mm	20700		2510		
<u>32"</u>	25600	1.30	<u>460</u>		
800mm	22100		2970		
<u>36°</u>	35200	1.11	<u>568</u>		
900mm	30400		3660		
<u>42"</u>	44100	1.32	<u>800</u>		
1050mm	38100		5160		
<u>48*</u>	57800	1.33	1050		
1200mm	50000		6770		

Valve Selection

Valve and Actuator Weights

With Cylinder With Bevel Valve Basic With With With Gear Valve Handwheel Chainwheel Size Lever Handwheel* Size lbs. Kg. 10 4.5 32 14.5 4" (100mm) 29 13 50mm 9 9 3" 80mm <u>16</u> 37 <u>27</u> 12 <u>39</u> 18 88 4" (100mm) 17 17 40 <u>4"</u> 100mm <u>24</u> 11 <u>36</u> 16 <u>48</u> 48 22 96 4" (100mm) 45 20 22 43.5 6" (150mm) 63 29 4" (100mm) 26 32 14.5 <u>51</u> 23 66 30 <u>108</u> 6" (150mm) 76 35 125mm 8" (200mm) 88 40 4" (100mm) 63 29 <u>6"</u> 150mm <u>38</u> 17 <u>57</u> 26 6" (150mm) 81 37 30 34 51 8" (200mm) 93 42 <u>65</u> 30 8" 98 86 101 144 6" (150mm) 112 51 200mm 44.5 39 46 65 8" (200mm) 124 56 8" (200mm) 174 79 <u>157</u> 71 10" 103 141 191 179 10" (250mm) 220 100 250mm 12" (300mm) 257 117 8" (200mm) 225 102 12" 148 67 213 97 187 227 103 241 109 10° (250mm) 270 122 300mm 85 12" (300mm) 309 140 199 <u>265</u> 120 14" 284 303 10" (250mm) 332 151 N/A 350mm 90 129 137 12" (300mm) 372 169 10" (250mm) 409 186 <u>16"</u> 400mm 272 358 162 380 N/A 12" (300mm) 449 204 172 14" (350mm) 495 225 12" (300mm) 551 250 18" 361 433 197 449 204 473 215 N/A 14" (350mm) 602 273 450mm 16" (400mm) 813 369 12" (300mm) 712 323 <u>518</u> 235 593 269 20° 653 296 637 289 N/A 14" (350mm) 760 500mm 16" (400mm) 982 445 12" (300mm) 830 377 <u>698</u> 317 <u>622</u> 14" (350mm) 760 881 400 N/A N/A 550mm 16" (400mm) 500 1101 18" (450mm) 1144 519 12" (300mm) 947 430 24" 725 329 803 364 882 400 14" (350mm) 1001 454 N/A N/A 600mm 16° (400mm) 1219 553 18" (450mm) 1262 572 12" (300mm) 1200 544 14" (350mm) 1251 568 26° 918 417 1104 501 N/A N/A N/A 16" (400mm) 1524 692 650mm 18" (450mm) 1578 716 20" (500mm) 1711 777 12" (300mm) 643 14° (350mm) 1467 666 <u>28"</u> 700mm 1111 503 N/A N/A N/A 16" (400mm) 1648 748 18" (450mm) 1830 830 20° (500mm) 1963 891 12" (300mm) 1718 780 14" (350mm) 1768 802 1446 1594 N/A N/A N/A 16* (400mm) 1985 900 750mm 18" (450mm) 2205 1000 20" (500mm) 2365 1073 12" (300mm) 1901 862 14" (350mm) 1951 886 32° 1700 772 1825 N/A N/A N/A 16" (400mm) 2121 800mm 828 18" (450mm) 2300 20" (500mm) 2426 1101 14" (350mm) 2541 1153 <u>36</u>" 2204 2366 16" (400mm) 2755 1250 N/A N/A N/A 900mm 18" (450mm) 2987 1355 20° (500mm) | 3150 | 1428 42" 3600 3908 N/A N/A N/A On Application 1050mn 1634 1774 5450 N/A N/A N/A On Application 1200mm 2266 2474

<u>Pounds</u> Kilograms

Note: Weights are approximate and do not include crating.

^{*} For Bevel Gear with Chainwheel, add the following weight to the bevel gear with handwheel weight: 2-18* add 7 lbs. (3kg)

^{2-18&}quot; add 7 ibs. (3kg) 20-24" add 26 ibs. (12kg) 30" add 74 ibs. (34kg)

^{36&}quot; add 68 lbs. (31kg)

Ordering

To order, simply complete the valve order code from information shown. An ordering example is shown for vour reference.

Valve Style Give valve style code as follows: Cast Stainless Steel Knife Gate Valve

Valu Give			ize code as	follows:			
2	=	2"	(50mm)	20	=	20"	(500mm)
3	=	3"	(80mm)	22	=	22"	(550mm)
4	=	4"	(100mm)	24	=	24"	(600mm)
5	=	5"	(125mm)	26	=	26"	(650mm)
6	=	6"	(150mm)	28	=	28"	(700mm)
8	=	8"	(200mm)	30	=	30"	(750mm)
10	=	10"	(250mm)	32	=	32"	(800mm)
12	=	12"	(300mm)	36	=	36"	(900mm)
14	=	14"	(350mm)	42	=	42°	(1050mm)
16	=	16"	(400mm)	48	=	48"	(1200mm)
18	=	18"	(450mm)				

Body Style Give body style code as follows:

Extended Service Life with DeZURIK Exclusive Premium Packing System

End Connection Give end connection code as follows:

ANSI 150 UNC Tapping for Threads

F110 ISO 7005/PN10 Drilling

ISO 7005/PN16 Drilling

F1DA AS2129 Table D Drilling AS2129 Table E Drilling F1EA

F1UN(1) = ANSI 150 UN-8 Tapping for Threads

F1S10 SANS 1123-1000 F1S16 SANS 1123-1600

Optional End Connections

ANSI 150 Through Bolting
 JIS 10 Drilling

F1J1

On Application

Other end connections available on application.

Body Material Give body material code as follows:

Standard

304 Stainless Steel S2 S3 316 Stainless Steel 317 Stainless Steel

On Application Hastelloy C

254 Stainless Steel

S10 2205 Duplex Stainless Steel

Packing Material

Give packing material code as follows:

Standard Packing

PTFE Braided Packing to 500°F (260°C) (pH Range 0-14) **Optional Packing**

Self-Adjusting PTFE Braided Packing with AFLAS

Pluoroelastomer Cord to 400°F (205°C) (pH Range 0-14)
Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord to 500°F (260°C) (pH Range: 0-14) TDP

HTP High Temperature Braided Packing to 650°F (343°C)

(pH Range: 1-12) High Temperature Braided Packing with Metal Scraper Ring HMP

to 1000°F (540°C) (pH Range: 3-10) Food Grade Service to 450°F (232°C) (pH Range: 3-11) FGP

Gate Material (3)

Give gate material code as follows:

Standard Gate Materials

304 Stainless Steel (Standard for S1 body material)
316 Stainless Steel (Standard for S2 body material)
317 Stainless Steel (Standard for S3 body material)

Optional Gate Materials

17-4 Stainless Steel H900 Heat Treated (Used with

S1, S2, & S3 body materials)

On Application 254-SMO Stainless Steel (Used with S6 body material)

410 Stainless Steel (Used with S1, S2 & S3 body materials)

S10 2205 Duplex Stainless Steel (Used with S2, S3 OR S10

body materials)

Hastelloy C (Used with HC body materials)

Seat Material (2)
Give seat material code as follows:

Standard Seat Materials

Metal

V-Orifice All Metal

CR NBR

Chloroprene to 180°F (83°C) Acrylonitrile-Butadiene to 180°F (83°C)

Terpolymer of Ethylene, Propylene and a

Diene to 250°F (122°C)

Optional Seat Materials

FKM = Fluoro Rubber to 400°F (204°C) S5D = 17-4 PH Stainless Steel H900 Heat Treated

On Application

CRW = Chloroprene, Off White to 140°F (60°C) PTFE or RTFE

Standard Options Give option code as follows:

ARRA Compliant ARRA =

PSA

Purge Ports in Seat Area Purge Ports in Chest Area PCA

Purge Ports in Seat and Chest Area

CMC Certificate of Material Conformance CRT Certified Physical and Chemical Test Reports

Optional Coating

DeZURIK Standard Test Certification

P100 30" and 36" (750 and 900mm) valves with

100 psi (690 kPa) pressure rating

- (1) Applies to valves 18" (450mm) and larger. Flange bolt hole threads are 8 threads per inch in accordance with ANSI, API and MSS
- (2) The limiting factor in valve selection is the lowest temperature of the packing or seat.
 (3) Gate material limitations by body style in parentheses.

Ordering Example:

KGC,6,ES,F1,S2,ASP,S2-CR*Actuator

Cylinder Actuator Accessories

Position Indicating Switches

Position Indicating Switches are available for use on double acting cylinder actuators. Order as part of a complete valve/actuator assembly by adding the appropriate code from the table below to the valve and actuator order code. Two switches will automatically be set to indicate full open and full closed positions.

Two Switches - Open/Closed

Quantity/ Description	Switch Type	Rating	Manufacturer	Order Code	
2 SPDT	Mochanical	Noma 1, 3, 4, 4X, 6, 6P, 12 and 13	Heneywell LSA1A 1A	SE649	
2 DPDT	Mochanical	Noma 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA2B 1A	SE524	
2 SPDT	Mechanical	Nome 1, 3, 4, 6, 7 (Class 1, Division 1, Groupe B, C, D), 9 (Class 2, Division 1, Groupe E, F, G), 13	Honoywoll LSXA3K 1A	SEH95	
2 DPDT	Nome 1 2 4 6 7 (Class 1 Division 1 Comme		Honeywell LSXA4L 1A	SEH96	
2 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO-73-13526-A2	SEHK4	
2 SPDT, SST Housing		CSA Class I, Div 2, Hazardous Losations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO 11-11124-A2	SEH94	
2 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 5P, 12 and 13	Stenel HK3077SG and HK3077SR	SEHK3	

One Switch - Open

Quantity/ Description	Switch Type	Reting	Manufacturer	Order Code				
1 SPDT	Mochanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	, 6, 6P, 12 and 13 Heneywell LSA1A 1A					
1 DPDT	Mechanical	Noma 1, 3, 4, 4X, 5, 6P, 12 and 13	Honoywoll LSA2B 1A	SEJ42				
1 SPDT	Mochanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 8 (Class 2, Division 1, Groups E, F, G), 13	Honoywell LSXA3K 1A	SEJ46				
1 DPDT	Nome 1 2 4 6 7 (Close 1 Division 1 Greyns B C D)		Honeywell LSXA4L-1A	SEJ44				
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO 73-13526-A2	SEHKE				
1 SPDT, SST Preximity CSA Class I, Dlv 2, Haz		CSA Class I, Div 2, Hazardous Losations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO 11 11124 A2	SEJ38				
1 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stenel HK3077SG	SEK37				

One Switch - Closed

Quantity/ Description	Switch Type	Rating	Manufacturer	Order Code	
4 SPDT	Mochanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA1A-1A	SEJ41	
1 DPDT	Mechanical	Noma 1, 3, 4, 4X, 6, 6P, 12 and 13	Hongywoll LSA2B-1A	SEJ43	
1-SPDT Mechanical Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, 9 (Class 2, Division 1, Groups E, F, G), 13		Heneywell-LSXA3K-1A	SEJ47		
1 DPDT	DPDT Mechanical Noma 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13			SEJ45	
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion-Proof	GO 73-13526-A2	SEHK	
1 SPDT, SST Housing Proximity		CSA Class I, Div 2, Hazardous Locations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO 11 11124 A2	SEJ39	
1 SPDT, SST Housing	Proximity	Noma 1, 3, 4, 4X, 6, 6P, 12 and 13	Stenel HK3077SR	SEK87	

Electric Motor Actuators

DeZURIK Knife Gate Valves can be furnished with electric motor actuators including Limitorque, Auma, Rotork, E.I.M. and others.

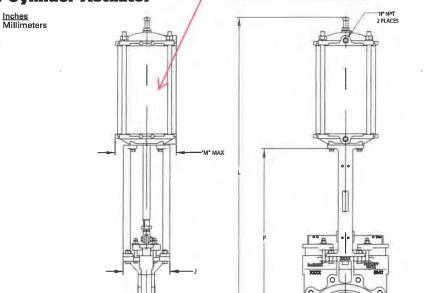
When ordering electric motor actuators, specify valve order code, shutoff pressure, service conditions (flowing media and installation direction); type of application (on/off or throttling); speed of operation; NEMA rating (4, 7, submersible, etc.); electrical characteristics (voltage and phase); actuator accessories and controls as per specification requirements.

Dimensions

Basic Valve with Cylinder Actuator

Valve	Din	nensi	ons
Size	F	Н	J
2 <u>*</u>	3.00	1.88	4.00
50mm	76	48	102
3"	3.75	2,00	4.75
80mm	95	51	121
4"	4.50	2.00	5.00
100mm	114	51	127
<u>5°</u>	5.00	2.25	5.75
125mm	127	57	146
<u>6"</u>	5,50	2.25	5.75
150mm	140	57	146
<u>8"</u>	6.75	<u>2.75</u>	6,38
200mm	171	70	162
<u>10"</u>	8.00	2.75	8,25
250mm	203	70	210
<u>12°</u>	9.50	3.00	8.25
300mm	241	76	210
14°	10.50	3.00	8,25
350mm	267	76	210
16"	11.75	3.50	8.69
400mm	298	89	221
<u>18"</u>	12.50	3,50	9,31
450mm	318	89	236
20"	13.75	4.50	9.42
500mm	349	114	239
22"	15.00	4.50	9,19
550mm	381	114	233
24"	16.00	4.50	9,42
600mm	406	114	239
26"	17.13	4.63	9,50
650mm	435	117	241
28°	18.25	5.00	10.69
700mm	464	127	271
30"*	19.38	5.50	11.25
750mm	492	140	286
32°	20.88	6.00	11.25
800mm	530	152	286
36"*	23.00	6.00	11.25
900mm	584	152	286
42"	26.50	6.50	13.50
1050mm	673	165	343
48* 1200mm		ct DeZ	URIK

^{* 100} psi, face-to-face (H dimension) on 30" and 36" (750 and 900mm) is 4.62" (117mm)



To Re-Use Existing Rotork Actuator

2-16" (50-400mm) Valves

Actuator		Dimensions											
Order	J	leave and a sure of Language and a sure of the sure of											
Code	2 <u>*</u> 50mm	3 <u>"</u> 80mm	<u>4°</u> 100mm	<u>5"</u> 125mm	<u>6"</u> 150mm	8" 200mm	<u>10°</u> 250mm	12° 300mm	14" 350mm	<u>16"</u> 400mm	M	N	
CY-PC4	22.26 565	23,98 609	26.26 667	30.64 778	32.18 817	-	_	_	-	_	<u>5.38</u> 137	1/4	
CY-PC6	=	-	27.61 701	32.00 813	33,56 852	39.11 993	47.13 1197	None	_	_	7.88 200	1/4	
CY-PC8		_	- 1	32,38 822	33.94 862	39.49 1003	49.57 1259	53.19 1351	<u>59.06</u> 1500	<u>62.74</u> 1594	10.50 267	1/2	
CY-PC10		-	-	=	_	-	50.97 1295	<u>54.59</u> 1387	60.35 1533	64.03 1626	13.00 330	1/2	
CY-PC12	_	-	_		_	-	50.94 1294	<u>54.56</u> 1386	60.70 1542	64.38 1635	15.00 381	1/2	
CY-PC14	-	-	_	1-	_		_	_	_	63.68 1617	17.00 432	1/:	

Inches Millimeters

OPTIONAL V-ORIFICE

18-48" (450-1200mm) Valves

Actuator						Dim	ension	S					
Order						L							
Code	<u>18°</u> 450mm	20° 500mm	22" 550mm	<u>24*</u> 600mm	<u>26*</u> 650mm	28" 700mm	<u>30"</u> 750mm	32" 800mm	36" 900mm	<u>42"</u> 1050mm	48" 1200mm	M	N
CY-PC10	73.59 1869	77.16 1960	-	-	-	- 1	=	_	-	_	_	13.00 330	1/2
CY-PC12	73.935 1878	77.495 1968	85.52 2172	89.475 2273	-	-	-	-	-	_		15.00 381	1/2
CY-PC14	73.24 1860	76.81 1951	85,52 2172	88,78 2255	95.38 2423	101.44 2577	108,19 2748	-	_	-		17.00* 432	1/2
CY-PC16	70.25 1784	75.94 1929	82,00 2083	87.91 2233	95.50 2426	101.56 2580	108.31 2751	113.94 2894	125.81 3196	_	Contact DeZURIK	17.00 432	1/2
CY-PC18	_	_	-	88.16 2239	95.75 2432	101.81 2585	108.56 2757	114.19 2900	126.06 3202	143.19 3637		19.00 483	3/4
CY-PC20	_	_	- 1		-	102.06 2592	109.81 2789	115.44 2932	126.31 3208	143.44 3643		21.00 533	3/4

^{*} M dimension on 26-30" (650-750mm) is 14.75" (375mm)

Inches Millimeters



DeZURIK KGC-ES EXTENDED SERVICE LIFE CAST STAINLESS STEEL KNIFE GATE VALVES



DeZURIK KGC-ES (Extended Service Life) Cast Stainless Steel Knife Gate Valves

Applications

DeZURIK KGC-ES Cast Stainless Steel Knife Gate Valves are designed for the toughest corrosive, abrasive liquid, slurry or dry material applications including: Pulp and Paper, Mining, Waste Water, Chemical, Petrochemical, Power, Steel, Food Processing, etc.

Design and Construction

The heart of the KGC-ES is the DeZURIK *Exclusive Premium Packing System*. This system features a tight tolerance machined packing chamber, rounded gate edge, Anti-Extrusion Ring, and many packing options to meet the demands of your specific application. All of these features together will improve sealing, extend packing life, and reduce maintenance.

Depending on what your application requires, the cast body and packing gland are available in 304, 316, 317, 254-SMO, 2205 Duplex Stainless Steel or Hastelloy C 276. Other body and gate materials are available upon request.

KGC-ES Knife Gate Valves are available in sizes 2" - 48" (50mm - 1200mm) with metal or resilient seated versions.

The actuator superstructure is heavy duty cast carbon steel or cast stainless steel to minimize corrosion. A variety of actuator options are available including: handwheels, chainwheels, bevel gears, levers, pneumatic cylinders, hydraulic cylinders, and electric motors. A full complement of accessories is also offered.

Applicable Standards

DeZURIK KGC-HD Knife Gate Valves are designed and/or tested to meet the following standards:					
MSS SP-81 Metal Seated Valves	Stainless Steel, Bonnetless, Flanged Knife Gate Valves				
ANSI B16.5 2" - 24" (50 - 600mm)	Carbon Steel Flanges and Flanged Fittings, ANSI 150. Conforms to related drilling dimensions				
ANSI 16,47 26" - 48" (650 - 1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions.				
ASME B16.20 2" - 48" (50 - 1200mm)	Metallic Gaskets for Pipe Flanges. Conforms to Spiral-Wound gasket dimensions				
International Standards	Conforms to flanged bolt guides: JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN10 and 7005-2/PN16; BS 4504/PN10 and BS 4504/PN16; and AS 2129 Tables D and E; SANS 1123-1000 and SANS 1123-1600				



DeZURIK Exclusive Rounded Stainless Steel Gate

Gates are available in 304, 316, 317, 17-4, 254-SMO, 410, 2205 Duplex Stainless Steel or Hastelloy C for corrosion resistance. The gate has a precision ground finish on both sides to prevent packing and seat damage. The beveled knife-like gate edge with machined tooth on each side pushes away or cuts through solids in the flow stream.

- Provides superior sealing
- Improves packing life
- Requires less compression and thus reduces friction
- Eliminates sharp corners where leakage first occurs

Cast Gate Guides and Jams

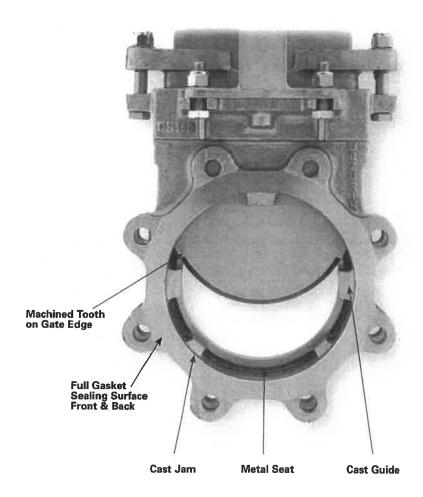
The cast gate guides provide support for the moving gate and will not break off like welded guides. Cast gate jams at the bottom of the body hold the gate securely against the seat to assure positive shutoff. All KGC-ES valves can handle full reverse pressure without damage. The body has raised face end connections with drilled and tapped lugs.

High Flow Capacity

100%, round port design allows high flow capacity and minimum pressure drop. DeZURIK's KGC-ES valve seat I.D. is equal to the inside diameter of standard pipe (ASME B36.10).

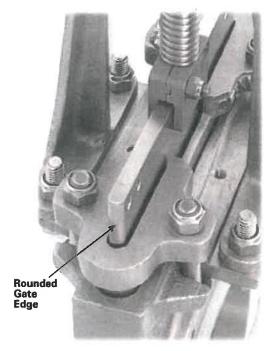
Full Gasket Sealing Front and Back

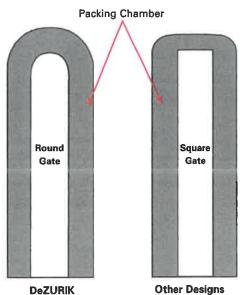
For maximum gasket sealing the KGC-HD end connections conform to ASME B16.20 dimensions for Spiral-Wound gaskets.



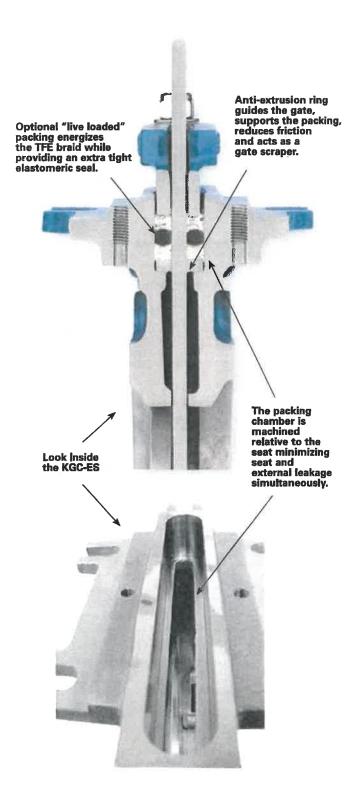
DeZURIK Exclusive Premium Packing System Ensures Long-Life by Sealing, Scraping and Supporting

DeZURIK KGC-ES Valves have a unique packing system that ensures a long-life tight seal with minimal packing gland pressure. The Premium Packing System is available for general, moderate, severe, and high temperature applications. The machined packing chamber, rounded gate edge, and Anti-Extrusion Ring form the base. The system is completed by careful selection of the packing material. Temperature, pH, and media properties will determine the most suitable packing option. KGC-ES valves can be re-packed without being removed from the pipeline.





KGC-ES



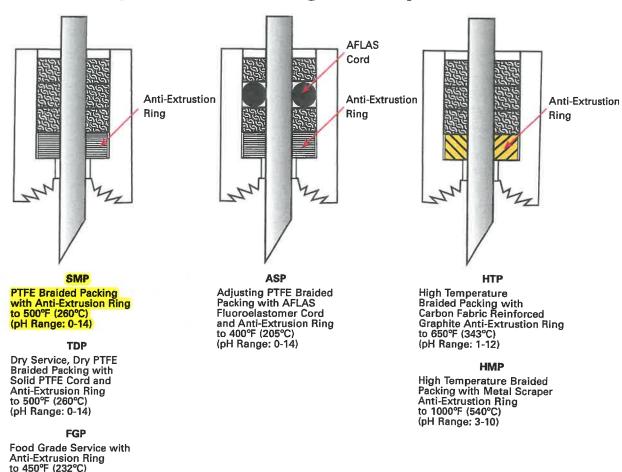
Test Data Proves – the "premium packing system" requires fewer packing adjustments and provides extended service life.

Putting "The Premium Packing System" To Work

The KGC-ES packing system includes a number of features that:

- Extend service life
- Reduce external leakage
- Minimize friction and actuator thrust required
- Require fewer packing adjustments
- Ensure alignment of the gate
- Allow field replacement of packing

High Performance Packing Material Options



Application Factors That Affect Your Packing Selection For Optimal Sealing

Compatibility with process media

(pH Range: 3-11)

- Wet or dry application
- Food grade or non food grade
- Life cycle stroke frequency
- Temperature
- pH Acid-Base level
- Scaling or crystallization on gate

Sealing

- Energized AFLAS Fluroelastomer Cord in ASP Packing will keep pressure on the packing material to maximize seal
- Adjustable Packing Gland will renew and compress the packing to seal the valve

Scraping

- Anti-Extrusion Ring functions as a gate scraper, preventing process media from entering packing chamber.
- Supporting
 - Anti-Extrusion Ring supports packing, keeps packing from extruding between body and gate, and also maintains gate alignment to maximize sealing performance

Seat Options

Both metal and resilient seated valves are offered in a 100%, round port design. The integral metal seated or the replaceable 17-4 PH Stainless Steel H900 Heat Treated version is available with shutoff capability exceeding current MSS-SP81 standards.

Resilient Seated Valves

Resilient seated valves are available for applications where drip-tight shutoff is required. Unlike valves which use an o-ring seal, DeZURIK KGC-ES Valves have a replaceable resilient seat designed especially for knife gate valve applications. The resilient seat material is molded on three sides of the stainless steel seat ring. When the valve is closed, the gate is pushed against the seat and held in place by the gate jams. When the valve is open, the gate moves away from the seat, allowing clearance, which prevents seat damage and reduces operating force.

A variety of seat materials are available.

Options include:

CR - Chloroprene

NBR - Acrylonitrile-Butadienne

EPDM - Terplymer of Ethylene, Propylene and a Diene

FKM - Fluro Rubber

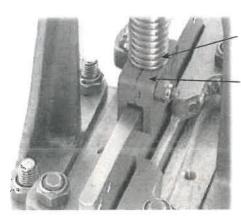
CRW - Chloroprene, off white

PTFE - Polytetrafluoroethylene, white

Reinforced PTFE - Polytetrafluoroethylene

Low Rim-Pull Force

A strong investment cast clip complements KGC-ES's robust construction. The single lead threads on the manual stem result in a lower required handwheel rim-pull force.



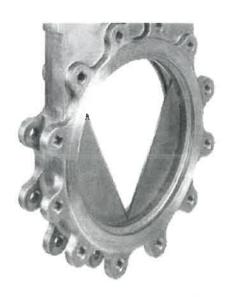
The stem has single lead threads to maximize mechanical advantage

Strong Investment Cast Connection



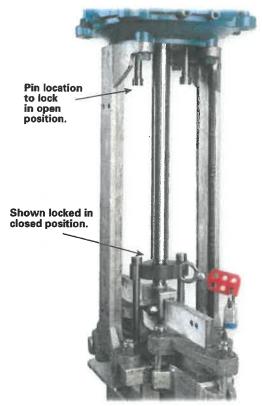
V-Orifice Design for Reliable Throttling and Modulation Control

An integral metal-seated V-port design is also available for reliable throttling control of thick slurries including paper stock. The constant V-orifice is maintained from open valve position to closed to prevent bridging or plugging and to ensure maximum control accuracy. Other orifice shapes available upon request.

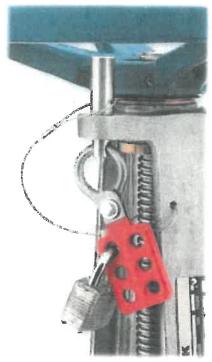


Lockout Option

KGC-ES provides the latest in lockout design technology to protect both people and the environment. Unique designs for manual and automated models are available. The lockout collar for the automated models allows fine adjustment to ensure tight shutoff and maximum opening position. Lockouts are rated to withstand the maximum output of the actuators.



Cylinder Lockout Position



Handwheel Lockout Option

Actuators

- Handwheels
- Chainwheels
- Levers
- Bevel Gears
- Pneumatic Cylinders
- Hydraulic Cylinders
- Electric Motors

Accessories

A variety of accessories are offered as standard, including handwheel extensions, floorstands and a variety of cylinder actuator accessories for customizing the valve/actuator package to meet specific application requirements.

Options

DeZURIK Cast Knife Gate Valves may be ordered with the following options to meet your application requirements:

- Purge port connections
- Corrosion resistant cylinder actuator materials
- Lockouts
- Hardened/removable seats
- Hardened gates
- Bonnets

PCO # 107

Sub-Regional WRP Projects Sub Regional WRP Projects





TOAV - Fiberglass Double Door Inactive Leaf Flush Bolt & Astragal

Type: RFC - Request for Change

Contract: 10942 - Apple Valley Contractor: W M Lyles Co

ISO Currency Code: USD

Purchase Order: Contract # 10942 - Apple Valley

Submitted: 01/09/2018

Submitted To: Victor Valley Wastewater

Reclamation Authority, W M Lyles Co

Status: **Pending Priority:** High

Pending On Org: Victor Valley Wastewater

Reclamation Authority

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

01/09/2018

Contractor's PCO #:

Reason:

Unforeseen / Changed Site Conditions

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 813,182.33 **Amount Added:** 1,052.01 **New Approved Amount:** 814,234.34 **Current Contract Duration:** 821 Days Added: 0 **New Contract Duration:** 821

Budget: Funding: Cost Item:

Proposed Design Change Summary:

The large fiber glass double doors, Door-42-Fine Screens Room and Door-45-Chemical Feed Room for a total of 2-units are susceptible to misalignment becoming unlatched in high winds.

Please provide:

PCO # 107

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

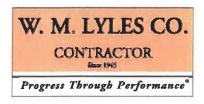
Change the bottom flush bolt(s) to a manual type (Rockwood 555) to keep the inactive leaf secured until opening of this door is required. Install a lock astragal (Rockwood 320CL) on the active door to prevent the door from passing too far past the inactive door.

	- 4		
 ~~	211	\sim	ns

Element A1 - Apple Valley WRP - Vol4

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

item	Description	Estimated Cost Change		%	Adjusted Cost Change	
1	Labor	\$	-		\$	-
2	Materials	\$			\$	
3	Equipment	\$	-		\$	-
					\$	•
	Total	\$	-		\$	-
	Markup	\$	-	15%	\$	-
Subs	Subtotal	\$			\$	_
4	Accurate Door Solutions	\$	999.87		\$	861.9
		\$			\$	
		\$			\$	
		\$			\$	
	Subcontract Subtotal	\$	999.87		\$	861.9
	Subontractro Bond & Ins	\$	10.00	1%		
				- 10		
	Cubbabal	4	1 000 07		<u> </u>	054.0
	Subtotal		1,009.87		\$	861.9
	GC-Subcontractor Markup	\$	50.49	5%	\$	43.10
	Total	\$	1,060.37		\$	905.00
	Subcontractor OH&P			15%	\$	129.29
	Subcontractor Bond & Ins			1%	\$	8.62
	GC Bond & Ins	\$	10.60	1%		9.0
	Total	\$	1,070.97		\$	1,052.0



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 22, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-107 Fiberglass Door Fix

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to change the bottom automatic flush bolt to a manual type and add a lock astragal to not allow the active door to pass the inactive door at the Screening and Chemical Room. WML deems this change to be additional work and the cost for this change is \$1,052.01. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
Project Executive

Thant | Jourley

W.M. Lyles Co.



17861 Georgetown Lane Huntington Beach, CA 92647 Ph: 714-842-0299 F: 714-842-0229 Invoice

Date

Invoice #

1/19/2018

11527

Bill To

W.M. Lyles PO Box 4377 Fresno, CA 93744 Ship To

W.M. Lyles Co. Sub-Regional WRP 21028 Otoe Road Apple Valley, CA 92307 Grant Gourley 951-760-4169

P.O. Number	Terms	Rep	Ship	Via	F.O.B.		Project		
T1139-29	Net 30	DP	1/17/2018	Our Truck	Jobsite	21417	2-8 Both sites		
ADS COR 08 He	Description S COR 08 Hesperia & Apple Valley Sites								
Change Bottom Fl nstall Rockwood Frip charge (per jo	Accurat WML Mar	e Door kup 5% d 1% - \$2	Solution - \$99.20 \$20.83 2,104.03	- \$1,984.00					
					Sales Tax	(7.975	\$0.00		
Paymer	nts made with credit (Cash, Checks and	cards are su l Visa Cards	bject to additiona	l fees.	Total		\$1,984.00		

Interest at 1½% per month but not more than allowed by law will be added on past due accounts. Buyer agrees if collection becomes necessary, buyer shall pay all costs including court costs and reasonable attorney fees.

PCO # 108

Sub-Regional WRP Projects Sub Regional WRP Projects





TOAV - DC-74R Modification to Water Heater Solenoid Valve Control **Strategy**

Type:

RFC - Request for Change Priority:

Contract: Contractor:

10942 - Apple Valley W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

Contract # 10942 - Apple Valley

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Submitted:

Status:

Submitted To:

01/11/2018

Pending

Low

W M Lyles Co

Created:

01/11/2018

Contractor's PCO #: 108

Reason:

Contractor Request

Requested By: Contractor

Change Date:

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last: 813.182.33 **Amount Added:** 3,159.28 **New Approved Amount:** 816,341.61 **Current Contract Duration:** 821 Davs Added: 0 **New Contract Duration:** 821

Budget: Funding:

Cost Item:

Proposed Design Change Summary:

The control strategy to perform maintenance cleans of the fine screens with hot water was modified allowing additional control for operator staff.

P	CO	#	1	n	R
	VV	π	- 8	v	u

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4 - 01 - Influent Screening

D	6	-	m	•	es
п					

Correspondence # 151

DC 74R - Solenoid Valve and Control Strategy Change Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Item	Description	Estimated Cost Change		%	Adjusted Cost	
1	Labor	\$	- Change		\$	Change -
2	Materials	\$			\$	
3	Equipment	\$		-	\$	_
	Trimax	\$	2,720.00		\$	2,720.0
	Tabl	_	2 720 00		_	2 720 0
	Total	\$	2,720.00		\$	2,720.0
	Markup	\$	408.00	15%	\$	408.0
	Subtotal	\$	3,128.00		\$	3,128.0
Subs 4	Trimax	\$	-		\$	
		\$			\$	•
		\$)	\$	-
		\$			\$	
	Subcontract Subtotal	\$			\$	-
	Subontractro Bond & Ins	Ś	-	1%		
	Subtotal	\$	-		\$	-
	GC-Subcontractor Markup	\$		5%	\$	
	Total	\$	3,128.00		\$	3,128.0
	Subcontractor OH&P			15%	\$	_
	Subcontractor Bond & Ins			1%	\$	
	GC Bond & Ins	\$	31.28	1%	\$	31.2
	Total	\$	3,159.28		\$	3,159.2



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Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

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January 12, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-108 Modify Program for Loop 3101C

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC-74R to modify the programming and loop drawings for the cold water supply valve in the Fine Screen Room. WML deems this change to be additional work and received pricing from Trimax. The cost for this change is \$3,159.28. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.



Trimax Systems, Inc. **Change Order Request**

Job Na	b Name Customer P.O. Number	
VVWR/	A Subregional Plants	T1139-50
То:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd.	Change Order Request: COR-44
	San Marcos, CA 92069	Date: 7/28/2017
Attn:	Steve Vickers	Reference DC-074R

Descripton:

Modify programs and documents for the following loop changes and additions

LOOP NO. 3101C	Plant Cold Water Si	Page 1 of 1			
Tag Number(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)
None	N/A	N/A	N/A	CWR	N/A

FUNCTIONAL DESCRIPTION

A solenoid normally open to plant cold water supply. Operator selects to close valve or have valve remain open on the local HMI or SCADA.

SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI

SUMMARY OF PLC AND HMI LOOP FUNCTIONS

Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant cold water supply solenoid valve. In MANUAL mode, operator can issue command to close the solenoid valve to shuf off cold water to the screen system. In AUTO mode, the PLC shall close this normally open valve when HCC-3101H is called to open.

LOOP FUNCTION DATA SHEET

Hesperia Water Reclamation Plant

LOOP NO. 3101H	Plant Hot Water Su	Page 1 of 1			
		COMPON	ENT SUMMARY		
Tag Numbor(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)
None	N/A	N/A	N/A	HWR	N/A

FUNCTIONAL DESCRIPTION

A solenoid normally closed to plant hot water supply. Operator selects to open valve or have valve remain closed on the local HMI or SCADA

SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI

SUMMARY OF PLC AND HMI LOOP FUNCTIONS

Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant hot water supply solenoid valve

in MANUAL mode, operator can issue command to open the solenoid valve, allowing hot water to flow to the screen system.

In AUTO mode, the operator can make the following selection on the local or SCADA HMI: PLANT WATER ONLY, ONCE A DAY, TWICE A DAY, CONTINUOUSLY. The SCADA system will choose to open solenoid or have solenoid remain closed based on the operator's selection. In the PLANT WATER ONLY mode, the solenoid will not open. In the ONCE A DAY MODE, the SCADA system will open the solenoid the first time the ontine screen is called to run after an operator adjustable time of day (12:01 am - 11:59 pm) is reached. The solenoid will remain open for an operator adjustable time delay. In the TWICE A DAY MODE, the solenoid will open the first time the on-line screen is called to run after an operator. adjustable time of day is reached and again 12 hours later. The same operator setpoint used to govern the open duration during the ONCE A DAY MODE shall be used in the TWICE A DAY MODE. In the CONTINUOUSLY mode, the solenoid will remain open.

INTERLOCKS

Material

Item	Description	Qty	Unit Price	Extended Price
1		0	\$0.00	\$0.00
2		0	\$0.00	\$0.00
		Subtotal:		\$0.00
		Markup:	15.00%	\$0.00
		Sales w/o Tax:		\$0.00
		Sales Tax:	7.75%	
		Tota	Material Cost:	\$0.00

Non-Taxable Labor

					Extended
Item	Description	Resource	Hrs	Rate	Price



Trimax Systems, Inc. Change Order Request

Job Name		Customer P.O. Number				
VVWRA	Subregional Plants	T1139-50				
То:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Chang	e Order Request	: COR-44 : 7/28/2017		
Attn:	Steve Vickers	Reference	DC-074R	: //26/201/		
1	Review, plan and coordinate changes - Both Sites	Prog	2.00	160.00	\$320.00	
2	Update panel I/O drawings - Both Sites	Des Eng	2.00	160.00	\$320.00	
3	O&M Manual Modifications HWRP	Des Eng	2.00	160.00	\$320.00	
3	O&M Manual Modifications AVWRP	Des Eng	1.00	160.00	\$160.00	
4	Update loop drawings HWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00	
5	Update loop drawings AVWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00	
6	Add PLC program for HWRP	Prog	6.00	160.00	\$960.00	
7	Add PLC program for AVWRP	Prog	4.00	160.00	\$640.00	
8	Add HMI program for HWRP	Prog	1.50	160.00	\$240.00	
9	Add HMI program for AVWRP	Prog	1.50	160.00	\$240.00	
10	Add SCADA app for HWRP	Prog	1.50	160.00	\$240.00	
11	Add SCADA app for AVWRP	Prog	1.50	160.00	\$240.00	
12	Loop testing - Both Sites	Fld Eng	4.00	110.00	\$440.00	
12	Operational testing - Both Sites	Prog	4.00	160.00	\$640.00	

Total Non-Taxable Labor Cost:

37.00

\$5,720.00

Other Direct Costs

ltem	Description	RT Miles	Qty	Unit Price	Extended Price
1	Mileage		1	\$0.62	\$0.00
2	Freight		1	\$0.00	\$0.00
3	Delivery to job site		1		\$0.00
4	Lodging				\$0.00
5	Per Diem			\$75.00	\$0.00

Total Other Direct Costs:

\$0.00

Complete price for the scope of work described herein:

\$5,720.00

TC	AV Cost -	\$2,720.00	COH	Cost -	\$3,000.00
WM	IL Markup -	\$408.00	WML	Markup -	\$450.00
WM	L Bond -	\$31.28	WML	Bond -	\$34.50
WM	L Total -	\$3,159.28	WML	Total -	\$3,484,50



Trimax Systems, Inc. Change Order Request

Job Name VVWRA Subregional Plants		Customer P.O. Number
		T1139-50
To:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd.	Change Order Request: COR-44
Attn:	San Marcos, CA 92069 Steve Vickers	Date: 7/28/2017
		Reference DC-074R

Exclusions:

- 1. Mounting stanchion, mounting plate.
- 2. Materials for installation.
- 3. Additional PLC I/O modules to accommodate new I/O.
- 4. Installation of furnished equipment.

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Marty McLaughlin Project Manager Trimax Systems, Inc.

Cell Ph. - 714-595-1269 brianb@trimaxsystems.com

PCO # 109

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - Process Blower Floor Supported Intake Pipe Support

Type: RFC - Request for Change

Contract: 10942 - Apple Valley

Contractor: W M Lyles Co

ISO Currency Code: USD

Purchase Order: Contract # 10942 - Apple Valletority:

Submitted: 02/08/2018

Submitted To: EADOC-VVWRA-Sub-R -

Alton Anderson, VVWRA-Sub-R

- Ted Luiten,W M Lyles Co

Revision Date:

Status: Pending High

Internal Priority: High

Pending On User: EADOC-VVWRA-Sub-R -

Alton Anderson

Pending On Org: Victor Valley Wastewater

Reclamation Authority, W M

Lyles Co

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/01/2018

Contractor's PCO #: 109

Reason:

Unforeseen / Changed Site Conditions

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

813,182.33

Amount Added:

10,908.52 824,090.85

New Approved Amount: Current Contract Duration:

821

Days Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Process Blower generate a low frequency wave, which is currently resonating into floor slab via the hanger pipe support system. This annoying vibration and noise has been detected when blower #1 is in operation and in operation at different speeds of the blower. The vibration and annoying noise is most disturbing in the stairwell and air-plenum room of the building.

Please provide a floor mounted pipe support with six inch diameter post support bolted to the floor of the building with a B-Line, type B3093 pipe saddle and ¼" rubber spacer between the pipe and saddle. The existing clevis hanger support w/bracing to remain in place for seismic vertical and lateral support (loose fit nuts on vertical all-thread rod) see figure attached. Location, each blower at northwest corner of blower

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Element A1 - Apple Valley WRP - Vol4 - 11 - Process Blowers

References		
Specification 15061 Pipe Supports		Published
Files		
Process Blower Vibration - Pipe	132.86 KB	
Support.pdf		

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Es	timated Cost	%	A	djusted Cost
item	Description		Change	%		Change
1	Labor	\$	3,939.35		\$	3,939.3
2	Materials	\$	5,129.00		\$	5,129.0
3	Equipment	\$	323.40		\$	323.4
					\$	•
	Total	\$	9,391.75		\$	9,391.7
	Markup	\$	1,408.76	15%	\$	1,408.7
aula a	Subtotal	\$	10,800.51		\$	10,800.5
ubs 4		\$			\$	-
		\$			\$	
					ĵ	<u> </u>
		\$	-		\$	-
		\$	-		\$	-
	Subcontract Subtotal	\$	-		\$	
	Subontractro Bond & Ins	\$	-	1%		
	Subtotal	\$			\$	-
	GC-Subcontractor Markup	\$	-	5%	\$	-
	Total	\$	10,800.51		\$	10,800.5
	Subcontractor OH&P			15%	\$	-
	Subcontractor Bond & Ins			1%	\$	
	GC Bond & Ins	\$	108.01	1%	\$	108.0
	Total	_	10,908.52		\$	



California Contractor's License No. 422390

Southern Division - Temecula Office 42142 Roick Drive Temecula, CA 92590 Telephone (951) 973-7393 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

February 8, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Rd. Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-109 Added Pipe Supports for Aer Blower Piping

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to add three pipe supports for on the inlet blower piping on the Aeration Blowers. WML deems this change to be additional work and the cost for this change is \$10,909. The breakdown of this amount is attached.

\$10,908.52

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley Project Executive W.M. Lyles Co.

W. M. Lyles Co. 42142 Roick Drive

Temecula, CA 92590

Date: 8-Feb-18

Reference #:

Alton Anderson

Attention:

VVWRA Subregional Plants Project

Project:

Description:

TOAV-109 Pipe Supports on Aeration Blower

			I OTAL IMIH	MH Cost	Unit I otal MH MH Cost I otal MH Cost Eq. Cost	Eq. Cos	<u>₹</u>	Material	Subconf.	Tota	Total Cost
	TOAV-109 Pipe Supports on Aeration Blower	LS	99		\$ 3,939.35	5 \$ 32	3.40	3,939.35 \$ 323.40 \$ 5,129.00	49	69	9 391 75
										1	2,000
										မာ	•
							ĺ				
										-	
Total Costs			7.6		\$ 2020.25	9	9 40	3 030 35 6 323 40 6 6 120 00		-	

Subtotal		€9	9,391.75
Mark-up - Labor	15%	49	590.90
Mark-up - Equipment	15%	69	48.51
Mark-up - Materials	15%	69	769.35
Mark-up - Subcontractor	2%	63	•
Bond	1%	69	108.01
Total This Change Order		u,	10 909 00

Comments:

VVWRA Subregional Plants Project

TOAV-109 Pipe Supports on Aeration Blower

2/8/2018

	Description	n		Op FM	Op	Lab FM	Lab	Carp	CM			
	4.											
stall Suppo	ITS			8	-		16	32				
								1				
												-
				8	0	0	16	32	0		0	0
				, ,	, ,		10	JZ.				, ,
<u>Name</u>		Rate		Hours		Extension						
Op FM		\$84.63		8		\$677.02						
Op Lab FM		\$81.99 \$67.55		0		\$0.00 \$0.00						
Labrwi Lab		\$65.23		16		\$0.00 \$1,043.61						
carp Carp		\$69.33		32		\$2,218.72						
zaip CM		\$67.98		0		\$0.00						
	0	\$0.00		Ö		\$0.00						
	Ö	\$0.00		0		\$0.00						
	0	\$0.00		0		\$0.00						
	0	\$0.00		0		\$0.00						
_	0	\$0,00		56		\$0.00						
					al Labor =	\$3,939.35						
						4-,						
3. Equipm				-						_		
	Description	1		15.205	18.284	15.184	18.254	35,066	18,278	31.012	30.045	30.628
Pickup				12								
								- 0				
				12	0	0	0	0	0	0	0	0
				1				, ,				U
<u>Number</u>	Description			Rate	<u>Hours</u>	Extension						
5.205	Truck			\$26.95		\$323,40						
8.284	Yard Truck			\$26.95 \$26.95		\$0.00						
5.184 8.254	Truck Truck			\$26.95	0	\$0.00 \$0.00						
5.066	Loader			\$142.00		\$0.00						
8.278	Truck			\$26.95		\$0.00						
0.045	John Deere Backhoe			\$58,53		\$0.00						
30.628	CAT Rental Backhoe			\$39.56	0	\$0.00						
31.012	Skidsteer			\$30.00	0	\$0.00						
				Total Equipme	nt =	\$323.40						
C. Materia	ls											
		Quantity	Unit	Price		Extension						
ipe Support		3	EA	\$1,493.00		\$0.00 \$4,479.00						
nchor Bolts	•	12	EA	\$1,493.00		\$4,479.00						
anchor poils Frout		1	LS	\$150.00		\$150.00						
leoprene		i	LS	\$200.00		\$200.00						
						\$0.00						
				Total Material		5,129.00						
). Subcon	tractor											
		Quantity	<u>Unit</u>	Price		Extension						
						\$0.00 \$0.00						
						90.00						

Total Subcontract =

ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE DIMENSIONS IN INCHES											
SIZE OF	PIPE SIZE	PIPE SIZE	"0"	"[)"						
SUPPORTED PIPE	"A"	"B"	"C"	MINIMUM	MAXIMUM						
2 1/2 *	2 1/2	1 1/2	9	8	13						
3	2 1/2	1 1/2	9	8 1/2	13 1/2						
3 1/2	2 1/2	1 1/2	9	8 1/2	13 1/2						
4	3	2 1/2	9	9 1/2	14						
6	3	2 1/2	9	10 1/2	15 1/2						
8	3	2 1/2	9	11 1/2	16 1/2						
10	3	2 1/2	9	13 1/2	18 1/2						
12	3	2 1/2	9	15	19 1/2						
14	4	3	11	16 1/2	20 1/2						
16	4	3	11	17 1/2	22 1/2						
18	6	3 1/2	13 1/2	19 1/2	24						
→ 20	6	3 1/2	13 1/2	21	25 1/2						
24	6	4	13 1/2	23 1/2	28 1/2						
30	6	4	13 1/2	27	31 1/2						
32	6	4	13 1/2	28 1/2	32 1/2						
36	6	4	13 1/2	30 1/2	34 1/2						

6 EA 20" Stl Pipe 12' Tall

PRODUCTION JAMES TO A STATE OF THE STATE OF

PROVIDE CLAMP WITH SUPPORT

ROUND ALL SHARP CORNERS TO 1/2" RADIUS

"B" SCHEDULE 40 STL PIPE

LENGTH AND THREADS TO ALLOW MIN AND MAX DIMENSION SHOWN. USE STRAIGHT THREADS.

"A" SCHEDULE 40 STL PIPE

4 - 3/4"ø SST CONC ANCHORS

THREADED 150 LB REDUCING FLANGE

1" NON-SHRINK GROUT

NOTES:

- 1. HOT-DIP GALVANIZE SUPPORT AFTER FABRICATION.
- 2. * USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2"ø
- 3. HEIGHT SHOULD NOT EXCEED 3 FEET WITHOUT PROVISIONS FOR LATERAL BRACING. FOR SUCH PROVISIONS SEE MECHANICAL DRAWINGS



TRIPAC FIG. TP-811 PIPE SADDLE WITH STRAP

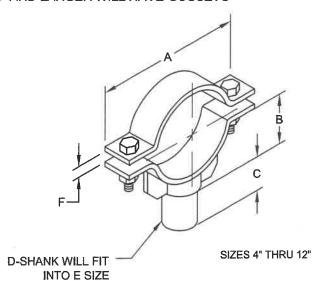
SIZE RANGE-4" THRU 36" PIPE

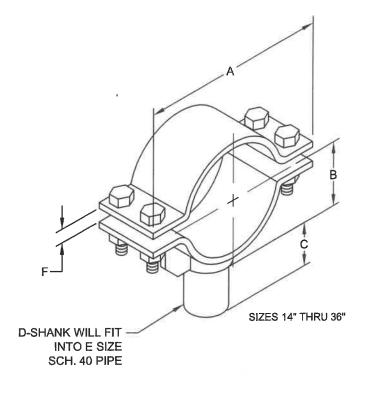
SERVICE-DESIGNED FOR SUPPORTING PIPE FROM FLOOR STANCHION. TOP CLAMP HOLDS PIPE SECURELY IN PLACE.

MATERIAL-CARBON STEEL, T-304 AND T-316 FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

8" AND LARGER WILL HAVE GUSSETS

SCH. 40 PIPE





			DIME	NSIONS				
PIPE SIZE	Α	В	С	D	E	F	BOLT SIZE	
4"	7"	3-13/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"	_
5"	8-5/8"	4-3/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"	
6"	11"	4-7/8"	2"	2-3/8"	2-1/2"	7/8"	5/8"	
8"	13-7/8"	6-15/16"	2"	2-3/8"	2-1/2"	1"	5/8"	_
10"	16"	7-15/16"	2"	2-3/8"	2-1/2"	1"	3/4"	
12"	18-1/4"	9-1/8"	3"	2-3/8"	2-1/2"	1"	3/4"	
14"	19-3/4"	10-1/2"	3"	2-7/8"	3" -	1-1/8"	3/4"	_
16"	22-3/4"	11-1/2"	3"	2-7/8"	3"	1-1/8"	3/4"	
18"	25-1/16"	13-1/2"	4"	3-3/4"	4"	1-1/4"	3/4"	
20"	27-3/4"	14-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"	
22"	29-3/4"	15-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"	
24"	32-3/8"	17-1/2"	4"	3-3/4"	4"	1-5/8"	7/8"	
26"	35"	18-1/2"	4"	3-3/4"	4"	2"	7/8"	_
30"	39-3/8"	20-5/8"	4"	3-3/4"	4"	2"	7/8"	
32"	41-3/8"	21-5/8"	4"	3-3/4"	4"	2"	7/8"	
36"	45-3/8"	23-5/8"	4"	3-3/4"	4"	2"	7/8"	

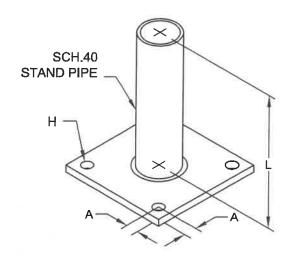
TRIPAC FIG. TP-816 PIPE STAND TRIPAC FIG. TP-816T THREADED PIPE STAND

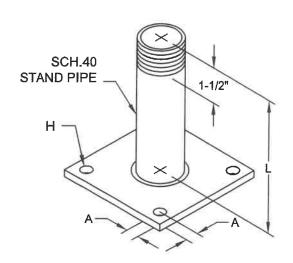
SIZE RANGE-1" THRU 8" PIPE

SERVICE-DESIGNED TO PROVIDE A SUPPORT BASE FOR FLOOR STANCHION SUPPORT. USE WITH SADDLES TP-811, TP-814, TP-817, TP-818 AND WHEN VERTICAL ADJUSTMENT IS NEEDED USE TP-819 PIPE ADJUSTER.

MATERIAL-CARBON STEEL, T-304 AND T-316 FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

"L" DIMENSION FROM TOP OF PIPE TO TOP OF PLATE





DIN	/ENSIG	ONS &	WEIGHT	S
STAND PIPE SIZE	Α	Н	PLATE SIZE	APPROX. WT./100
1"	1"	1/2"	6" SQ.	423
1-1/4"	1"	1/2"	6" SQ.	482
1-1/2"	1"	1/2"	6" SQ.	525
2"	1"	1/2"	6" SQ.	748
2-1/2"	1-1/8"	5/8"	8" SQ.	1377
3"	1-1/8"	5/8"	9" SQ.	1555
4"	1-1/4"	3/4"	11" SQ.	2514
6"	1-1/2"	7/8"	14" SQ.	4469
8"	1-1/2"	1"	16" SQ.	10120

^{*} WEIGHT IS BASED ON "L" DIMENSION OF 1'-0"



TRIPAC FIG. TP-819 THREADED PIPE ADJUSTER

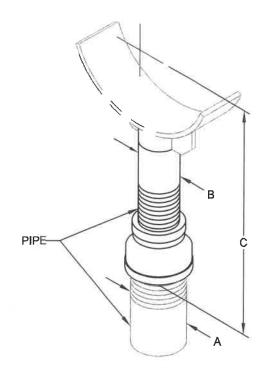
SIZE RANGE-FOR USE WITH 2-1/2" THRU 36" PIPE

SERVICE-DESIGNED TO PROVIDE UP TO 4-1/2" OF VERTICAL ADJUSTMENT AFTER INSTALLATION. TYPICALLY USED IN CONJUCTION WITH TP-816T PIPE STAND AND TP-811, TP-814, TP-817 & TP-818 PIPE SADDLES.

MATERIAL-CARBON STEEL, T-304 AND T-316

FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

COMPLIES WITH FEDERAL SPECIFICATION WW-H-171-E (TYPE #39 2-1/2" THRU 36") AND MANUFACTURERS STANDARDIZATION SOCIETY MSS AND SP-69 (TYPE #38), WHEN USED WITH PIPE STAND AND PIPE SADDLE.



DIMENSIONS & WEIGHTS

ADJUSTER SIZE	PIPE SIZE	MAX. O.D. OF PIPE	A PIPE SIZE	B PIPE SIZE	C MIN.	C MAX.	APPROX. WT./100
1-1/2" x 2-1/2"	2-1/2"	2-7/8"	2-1/2"	1-1/2"	7"	11-1/2"	304
1-1/2" x 2-1/2"	3"	3-1/2"	2-1/2"	1-1/2"	7-5/16"	11-13/16"	304
1-1/2" x 2-1/2"	3-1/2"	4"	2-1/2"	1-1/2"	7-9/16"	12-1/16"	304
2-1/2 x 3"	4"	4-7/8"	3"	2-1/2"	10-1/4"	14-3/4"	793
2-1/2 x 3"	5"	5-5/8"	3"	2-1/2"	11-1/16"	15-9/16"	793
2-1/2 x 3"	6"	7"	3"	2-1/2"	11-9/16"	16-1/16"	793
2-1/2 x 3"	8"	9-1/8"	3"	2-1/2"	13-9/16"	18-1/16"	793
2-1/2 x 3"	10"	11-1/8"	3"	2-1/2"	14-5/8"	19-1/8"	793
2-1/2 x 3"	12"	13-1/2"	3"	2-1/2"	15-5/8"	20-1/8"	793
3" x 4"	14"	14"	4"	3"	18-7/8"	23-3/8"	1220
3" x 4"	16"	16"	4"	3"	19-7/8"	24-3/8"	1220
4" x 6"	18"	18"	6"	4"	22-1/4"	26-3/4"	2248
4" x 6"	20"	20"	6"	4"	23-1/4"	27-3/4"	2248
4" x 6"	22"	22"	6"	4"	24-1/4"	28-3/4"	2248
4" x 6"	24"	24"	6"	4"	26-1/2"	31"	2248
4" x 6"	26"	26"	6"	4"	27-1/2"	32"	2248
4" x 6"	30"	30"	6"	4"	29-5/8"	24-1/8"	2248
4" x 6"	32"	32"	6"	4"	30-5/8"	35-1/8"	2248
4" x 6"	36"	36"	6"	4"	32-5/8"	37-1/8"	2248



Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - Credit for Unused Allowance - Line Item A14 MBR Electrical

Type:

RFC - Request for Change 10942 - Apple Valley

Contract: Contractor:

ISO Currency Code:

USD

Purchase Order:

W M Lyles Co

Contract # 10942 - Apple Valleigrity:

Submitted:

02/27/2018

Submitted To:

MWH Constructors, Victor

Valley Wastewater

Reclamation Authority, W M

Lyles Co

Revision Date:

Status:

Pending Low

Pending On Org:

Victor Valley Wastewater

Reclamation Authority, W M Lyles Co

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/27/2018

Contractor's PCO #:

Reason:

Owner Request

Requested By: Owner

Change Date: Schedule ID:

Not to Exceed \$:

5,439.95

Set:

Approved Thru Last: 813,182.33 Amount Added: -5,439.95 **New Approved Amount:** 807,742.38 **Current Contract Duration:** 821 Days Added: 0 **New Contract Duration:** 821

Budget: Funding: Cost Item:

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$50,000 for the installation of electrical related equipment and conduit in the membrane basin area. This credit change order is for the amount of \$5,439.95 of unused funds.

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Sub-Regional WRP Projects Sub Regional WRP Projects





	TOAV - Credit for Unused
I	Allowance - Line Item C1 Owners
I	Reserve Allowance

Type:

RFC - Request for Change

Contract:

10942 - Apple Valley

Contractor:

W M Lyles Co

ISO Currency Code: Purchase Order:

USD

Contract # 10942 - Apple Valleiprity:

Submitted:

Submitted To:

02/27/2018

To: MWH Constructors, Victor

Valley Wastewater

Reclamation Authority,W M

Lyles Co

Revision Date:

Status:

Pending Low

аныргиу:

LOW

Pending On Org:

Victor Valley Wastewater Reclamation Authority, W M

Lyles Co

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/27/2018

Contractor's PCO #:

Reason:

Owner Request

Requested By:

Change Date: Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

813,182.33

Amount Added:

-942.21

New Approved Amount: Current Contract Duration: 812,240.12 821

Days Added:

0

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$500,000 for miscellaneous work required during the completion of the project to be used at the discretion of the Owner and Owner's representatives. This credit change order is for the amount of \$942.51 of unused funds.

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2



TOAV - Additional Programming, Percolation Pond SCADA

Type:

RFC - Request for Change

Contract:

Contractor:

W M Lyles Co

ISO Currency Code:

USD

Purchase Order:

10942 - Apple Valley

Contract # 10942 - Apple Vallegrnal Priority:

Submitted:

02/27/2018

Submitted To:

MWH Constructors, Victor Valley

Wastewater Reclamation Authority, W

M Lyles Co

Status:

Pending

Priority:

Low Low

Pending On Org: MWH Constructors, Victor Valley

Wastewater Reclamation Authority

Created By:

MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds

Created:

02/27/2018

Contractor's PCO #:

Reason:

Design Errors

Requested By: Contractor

Change Date:

02/15/2018

Schedule ID:

Not to Exceed \$:

0.00

Set:

Approved Thru Last:

813.182.33

Amount Added:

6.975.86

New Approved Amount: Current Contract Duration: 820,158.19 821

Days Added:

New Contract Duration:

821

Budget:

Funding:

Cost Item:

Proposed Design Change Summary:

During testing of the SCADA/PLC programming for the Apple Valley Golf Course Irrigation and Percolation Ponds it was discovered that contract programming had placed the Irrigation Pond as the primary discharge point for receiving treated

Sub-Regional WRP Projects Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

effluent from the Apple Valley WRP facility. The completed SCADA/PLC program required last minute modifications to the previously completed and approved program.

References			
Correspondence # 156	Perc Pond Programming	Pending	

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

ltem	Description	Est	imated Cost	%	Ac	ljusted Cost
4		_	Change			Change
1	Labor	\$	-		\$	-
3	Materials	\$	•		\$	
3	Equipment Trimax	\$	- C 00E 03		\$	-
	Trimax	-	6,005.92		\$	6,005.9
	Total	\$	6,005.92		\$	6,005.93
	Markup	\$	900.89	15%	\$	900.89
Subs	Subtotal	\$	6,906.81		\$	6,906.8
4		\$	-		\$	-
		\$			\$	
		\$			\$	
		\$	-		\$	_
	Subcontract Subtotal	Ś			\$	
				1%	_	
	Substitute Botta & IIIS	7		170		
	Subtotal	\$	-		\$	
	GC-Subcontractor Markup	\$	-	5%	\$	-
	Total	\$	6,906.81		\$	6,906.81
	Subcontractor OH&P			15%	\$	-
	Subcontractor Bond & Ins			1%	\$	-
	GC Bond & Ins	\$	69.07	1%	\$	69.07
	Total	\$	6,975.88		\$	6,975.88



COR - Change Order Request - Trimax Systems COR No. 54

To: WM Lyles

Date:

February 26, 2018

42142 Rock Drive

Job No.:

P-2192

Temecula, CA 92590

Cost Impact Comments

Time and Material

Project:

\$6,005.92

VVWRA

Attention: Grant Gourley

Sub-regional Water Reclamation Plants **Date Required:** February 22, 2018

From: Marty McLaughlin

Supporting Docs: DC94R1 Interlocks // AV Golf Course

Amount Schedule Impact Comments Extension
Days

Complete as of 2-22-2018

N/A

Subject: Time and Material as required

Date	Day	Eng/Tech	Н	ours	R	teg	Ove	ertime	Mi	leage				
	*	E. Stille and	Travel	On-Site	Hours	Rate	Hours	Rate	To Site	From Site	IRS -	15%		Totals
2/14/2018	Wednesday	Maria	0	5.5	5.5	\$160.00	0	\$240.00	0	0	\$	0.62	Ş	880.00
2/15/2018	Thursday	Maria	0	3	3	\$160.00	0	\$240.00	0	0	\$	0.62	\$	480.00
2/21/2018	Wednesday	Maria	0	8	8	\$160.00	0	\$240.00	0	0	\$	0.62	\$	1,280.00
2/21/2018	Wednesday	Marvin	3	7	8	\$110.00	2	\$165.00	79	79	\$	0.62	\$	1,307.9
2/22/2018	Thursday	Maria	0	4	4	\$160.00	0	\$240.00	0	0	\$	0.62	\$	640.00
2/22/2018	Thursday	Marvin	3	7	8	\$110.00	2	\$165.00	79	79	\$	0.62	\$	1,307.96
2/22/2018	Thursday	Brian B.	0		1	\$110.00	Ó	\$165.00	0	0	\$	0.62	\$	110.00

Reference P-2192 COR-54

\$ 6,005.92

Please issue a change order for \$6,005.92

WML Markup - \$900.88

WML Bond - \$69.06

WML Total - \$6,975.86



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY Report/Recommendation to the Board of Commissioners March 19, 2018

FROM:

Logan Olds, General Manager

TO:

Board of Commissioners

SUBJECT:

Recommendation to Increase the Existing Professional Services Agreement with MWH

Constructors by \$95,239.00 for FINAL CM Services for the Subregional Project

RECOMMENDATION

It is recommended that the Board of Commissioners approve a FINAL increase of the existing Professional Services Agreement (PSA) for Construction Management Services for the Subregional Project with MWH Constructors by \$95,239.00 for additional services for the Subregional Project in accordance to their Amendment No. 4 Proposal dated January 3, 2018. This brings the PSA to a total of \$4,287,729.00.

REVIEW BY OTHERS

This recommendation has been prepared by Logan Olds, General Manager and reviewed by Piero Dallarda, Legal Counsel and the Engineering Committee including Tim Millington, David Burket, Brian Gengler and Greg Snyder.

BACKGROUND INFORMATION

Upon review by the VVWRA Engineering Committee it was the consensus of the members to place this staff recommendation for Amendment No. 4 before the VVWRA Board for approval.

The Subregional Project to construct Water Reclamation Plants in the City of Hesperia and the Town of Apple Valley is complete. VVWRA staff are currently performing operational testing. This FINAL contract increase request addresses the extended duration of the construction project and providing services for commissioning and startup.

The original agreement and amendments are tabulated below:

Description	Amount	Contract Total	Time
Original Agreement	\$2,985,730	\$2,985,730	Jan-17
Amendment No. 1	\$203,957	\$3,189,687	
Amendment No. 2	\$577,987	\$3,767,674	9-Sep-17
Amendment No. 3	\$424,816	\$4,192,490	31-Dec-17
Amendment No. 4	\$95,239	\$4,287,729	28-Feb-18
Total Contract		\$4,287,729	38 Months

The details of the proposed Amendment No. 4 are described in the attached letter dated 3 January 2018.

Extended Services due to Construction Schedule

The Final Completion was previously scheduled for December 31, 2018. Currently the Hesperia and the Apple Valley WRP's are complete as of 28 February 2018 and VVWRA staff are conducting performance testing.

Additional Services for Commissioning

In the separation of duties for the ESDC and CM services the commissioning of the plants left out adequate services to complete the commissioning. Inspection services are increased in this amendment to fill this need. This is a critical area to make certain that the plants will be operational, conform to the functional

Staff has reviewed and negotiated with MWH Constructors on these items while trying to maintain the necessary level of services. The VVWRA Engineering Committee and VVWRA Staff met on 5 March 2018. Staff presented a summary and responded to the committee questions. The Committee evaluated the request and agreed that this request be presented as Amendment No. 4 to the Board.

Attached is the proposal from MWH Constructors dated 3 January 2018. Staff and the Engineering Committee are recommending that the Board approve this proposed increase to the Professional Services Agreement in the amount of \$95,239.00.

FINANCIAL IMPACT

Fund 01 or 07				
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)				
Transfer Needed due to Insufficient Budget	Υ[]	N[]
If Transfer, from Which Account String or Reserve				
Budgeted Amount Where Money Comes from				
Budget Remaining after the Recommendation				
Outside Funding Source if applicable	\$			
Original Contract Amount	\$			
Change Order	Υ[]	N []
Contract after Change	\$			

Finance Approval:

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)	09-54-500-9025, C101 and 09-55- 500-9025,C103
Transfer Needed due to Insufficient Budget	Y[] N[x]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$
Budget Remaining after the Recommendation	
Outside Funding Source	SRF Loan
Original Contract Amount	\$2,985,730.00
Change Order	Y[x] N[]
Contract after Change	\$4,287,729.00

The impact is a total increase of \$95,239.00 to the Professional Service Agreement. This is a part of the Subregionals Project budget. The Hesperia portion will be charged to budget account 09-54-500-9025, C101. The Apple Valley portion will be charged to budget account 09-55-500-9025, C103. There is an already budgeted contingency in the SRF loan staff is currently negotiating with the state SRF loan staff as part of project close out to use unallocated funds from construction change order contingency for soft costs such as construction management and engineering services during construction. Overall this expense will not represent an increase in the total anticipated cost of the Subregionals Project.

RELATED IMPACTS

None



January 3, 2018

Victor Valley Wastewater Reclamation Authority 20111 Shay Road Victorville, California 92394 Attention: Mr. Alton Anderson

Reference:

Hesperia Water Reclamation Plant & Apple Valley Water Reclamation Plant Projects

Subject:

Proposed Amendment No. 4 for Extension of Construction Management Services

Dear Mr. Anderson:

As you know the budget for Construction Management Services expired in December 2017. Therefore, MWH Constructors (MWHC) respectfully submits the attached request for Amendment No. 4 to the existing Agreement with the Victor Valley Wastewater Reclamation Authority (VVWRA). This will provide an additional 2 months of Construction Management Services (CMS) through the project completion date of February 28, 2018. The additional time is required due to the process of Design Clarification Memorandums (DCM) and associated change orders.

Included is a summary of Construction Management of activities necessary to complete the project.

In order to meet the SRF billing period deadline of February 28, 2018, we are present this as a lump sum. It also includes Labor Compliance Monitoring per State Loan requirements and Bentley ProjectWise (EaDoc) web-based document system.

Please review and let me know if you have any questions.

Thank you,

MWH.

SAFE START

Randy B. Lovan, Certified CM, QSP
Area Manager - Inland Empire
Construction Management Services
MVVH Constructors, Inc.
300 N. Lake Avenue.
Suite 400
Mobile: (949) 439-0423

Pasadena, CA 91101 randy.lovan@mwhglobal.com www.mwhglobal.com

> 300 North Lake Avenue Suite 400 Pasadena, CA 91101

TEL 626-796-9141 FAX 626-568-6101 www.mwhglobal.com



Victor Valley Wastewater Reclamation District

Project: VVWRA Subregional Water Reclamation Plants Project

Amendment 4 - Task Narrative from January 2018 to Project Completion

January 2018:

Hesperia WRP and Lift Station

- The continuation of tracking contractor field activities for quality and conformance with contract
 documents, review and overseeing the completion of the design engineer's generated punch-list
 and preparing CM's punch-list. Review and witness testing of SCADA and instrumentation
 devices.
- Continuing document tracking of; contractor submittals and engineer submittal response, field
 activity reports, preparing and negotiating cost for PCOs and final Change Orders, preparing the
 Hesperia December 2017 quarterly report along with the review of contractor record drawings
 for through accounting of work constructed.
- Overseeing the completion of change order activities; upsizing of the 2" natural gas-line to 4",
 AlertOne/Southern/AMS/Trimax completion of SCADA related changes relating to the fire alarm
 control system, Anaergia/Wedeco-UV programming changes and WM Lyses miscellaneous
 change orders.
- Coordination and accounting of onsite vendor activities generated from warranty work by;
 Aerzen (blowers), Quinn CAT (natural gas generator), Global Environmental (odor control) and
 Fencore (facility access gates) along with tracking delivery of 16" MBR Drain Gate Valves.
- Troubleshooting Activities Process blower vibration-noise issues, lift station vault flooding.

Apple Valley WRP & Golf Course

- The continuation of tracking contractor field activities for quality and conformance with contract
 documents, review and overseeing the completion of the design engineer's generated punch-list
 and preparing CM's punch-list. Overseeing the completion of the tie-in of the 12" reuse water
 ling to the 10" cleaned and converted AVFM. Review and witness testing of SCADA and
 instrumentation devices.
- Continuing document tracking of; contractor submittals and engineer submittal response, field
 activity reports, preparing and negotiating cost for PCOs and final Change Orders, preparing the
 Apple Valley December 2017 quarterly report along with the review of contractor record
 drawings for through accounting of work constructed.
- Overseeing the completion of change order activities; AlertOne/Southern/AMS/Trimax completion of SCADA related changes relating to the fire alarm control system, Anaergia/Wedeco-UV programming changes and WM Lyses miscellaneous change orders.
- Coordination and accounting of onsite vendor activities generated from warranty work by;
 Aerzen (blowers), MISCO Water (automated valves) and Fencore (facility access gates) along with tracking delivery of 16" MBR Drain Gate Valves. Coordination between Southwest Gas and Quinn CAT (natural gas generator) final testing and startup.



 Troubleshooting Activities – Process blower vibration-noise issues, WAS/Otoe LS discharge pressure issues.

February 2018:

Hesperia WRP and Lift Station

- Review and witness testing of SCADA and instrumentation devices.
- Continuing document tracking; contractor submittals and engineer submittal responses and negotiating cost for PCOs and final Change Orders. Along with overseeing repair, replacement of items noted on Owner/CM generated punch-list.
- Overseeing the completion of WM Lyses miscellaneous change orders.
- Coordination; tracking delivery of 16" MBR Drain Gate Valves. Coordination of training with Eaton for electrical switchgear and ATS equipment.

Apple Valley WRP & Golf Course

- Review and witness testing of SCADA and instrumentation devices.
- Continuing document tracking; contractor submittals and engineer submittal responses and negotiating cost for PCOs and final Change Orders. Along with overseeing repair, replacement of items noted on Owner/CM generated punch-list.
- Overseeing the completion of change order activities; AlertOne/Trimax SCADA related changes relating to the fire alarm control system, and WM Lyses miscellaneous change orders.
- Coordination; tracking delivery and installation of the two 16" MBR Drain Gate Valves.
 Coordination of training with Eaton for electrical switchgear and ATS equipment.
- Coordination and troubleshooting Apple Valley communication and programming issues.

March 2018:

Hesperia WRP and Lift Station

- Completion of witness testing of SCADA and instrumentation devices.
- Coordination and overseeing installation of the two 16" MBR Drain Gate Valves.
- Completion of document tracking; contractor submittals and engineer submittal responses and preparing Final Change Orders.
- Project Close-Out Reports

Apple Valley WRP & Golf Course

- Completion of witness testing of SCADA and instrumentation devices.
- Completion of document tracking; contractor submittals and engineer submittal responses and preparing Final Change Orders.
- Coordination and Troubleshooting issues with Fine Screens.
- Project Close-Out Reports



MWH Constructors

Victor Valley Wastewater Reclamation Authority

Sub Regional Water Reclamation Plant Projects

Amendment No. 4

Provide Additional Construction Management Services

January 3, 2018

Cost Proposal Summary

Description		2018	Project
TASK A - MWHC Labor			
Contract No.: 10942 - Town of Apple Valley Sub Re	egional		
Labor Hours		672	672
Labor Cost		\$ 57,152	\$ 57,152
Contract No.: 10943 - City of Hesperia Sub Region	al		
Labor Hours		208	208
Labor Cost		\$ 19,328	\$ 19,328
Subtotal Cost			\$ 76,480
ODC's			
Contract No.: 10942 - Town of Apple Valley Sub Re	egional		
*Billable ODCs	LS	\$ 5,000.00	\$ 5,000
Golden State Labor Compliance	LS	\$ 7,916.00	\$ 7,916
Bentley ProjectWise (EaDoc)		\$ 4,950.00	\$ 4,950
5 % Markup		\$ 893	\$ 893
Contract No.: 10943 - City of Hesperia Sub Regions	al		
*Billable ODCs	LS.	\$ -	\$
Golden State Labor Compliance	LS.	\$ -	\$
Bentley ProjectWise (EaDoc)	LS.	\$ -	\$
5 % Markup		\$ -	\$
Subtotal Cost			\$ 18,759
Total Cost Proposal			\$ 95,239
Average Labor Cost/Hour/Year		880	\$ 86.91

Inclusions

All personnel shall be assigned: laptop computer, cell phone, personal safety equipment (PPE), safety equipment to perform duties except Confined Space Entry. *5% markup included in cost.

Exclusions

Refer to the attached Construction Management Services - Standard Clarification for Fee Proposal



AMENDMENT NO. 4 RESOUCES SUMMARY VVWRA WRP Project Elements A & B

Additional CM Services from December 2017 to February 2018

January 3, 2018

				1	١	١	l		l	١	l	l	l	١	l	l	
		2018	Year								2018						
Position Description	Person	Hourly Rate	Quarter		₽1			Qtr 2			Qtr 3	ယ်			Qtr 4		Total
				-	2	ш	4	51	6	7	œ	-	9	ð	11	12	Estimated
			Month	JAN	FEB	MAR	APR	MAY	JUN	Ę	AUG		SEP	S	NOV	DEC	HIS
			Workdays	21	19	22	21	22	21	21			19	22	20	20	
Program Staff			Firm								1	+					
												+					
Apple Valley WRP - Project Element A				252	252	168	0	0	0	0	0	-	9	0	0	0	672
Project Representative - Elem A	Burrola, Jaime		HWM									+					-
Construction Manager - Elem A	Lovan, Randy	\$176.00	HWM	12	12	8					1	+					32
Schedule Analyst	Murray, Jordy		HWM									+					•
Resident Engineer	Reynolds, Charles	\$135.00	HWM	120	120	88				1	1	-					320
Resident Engineer (Support)	Barton, Austin	\$134.00	HWM									-					
Intern - Element A	Tolbert, Steven	\$26.00	WC	120	120	8			1	1	1	+	1				320
Inspector - C/S/M	Buck, Charles		HWM						1	1	1	+					
Sr. Inspector	Dismang, David		HWM						1	1	+	+					
Inspector - No. 2 E&I	Rod Warner	\$142.00	HWM								1	+					
												-					
Hesperia WRP - Project Element B				124	22	0	0	0	0	0	1	0	0	0	0	٥	208
Project Representative - Elem B	Burrola, Jaime		HWW									-					-
Construction Manager - Elem B	Lovan, Randy	\$176.00	HWW	4	4							-					80
Schedule Analyst	Murray, Jordy		HWM									-	4				
Resident Engineer	Reynolds, Charles	\$135.00	HWM	40	40					1	1	-					80
Resident Engineer (Support)	Barton, Austin	\$134.00	HWM								-	-					
Intern - Element B	Tolbert, Steven	\$26.00	WC	45	4							-					80
Inspector - C/S/M	Owais Andrabi,		HWM									+					-
Sr. Inspector	Dismang, David	\$126.00	HWM	40							1	-					45
Inspector - E&I	Rod Warner	\$142.00	HWM									-					
			Total Hrs.	376	336	168		0	0	0	0	0	0	0	0	0	880

AMENDMENT NO. 4 RESOUCES SUMMARY VVWRA WRP Project Elements A & B

CONSTRUCTORS Additional CM Services from December 2017 to February 2018

	2018	Year							2018						
Pasition Description Person	On Hourly Rate	Quarter		Qt 1			Qtr 2			Qtr 3			Qtr 4	To	Total Estimated
			-	2	ω	4	ch	6	7	00	9	6	=		5
		Month	JAN	- BEE	MAR	APR	MAY	NUL	TUL	AUG	193	130	NOV	230	
Program Staff		Fim													
APPLE Valley WRP - Project Element A	100		\$ 21,432.00	\$ 21,432.00 \$	14,288,00 \$									69	57.152.00
		HWW	8					•				4			
er - Hem A	\$176,00	HWM	\$ 2,112.00	\$ 2,112.00 \$	1,408.00 \$			-				-			5.832.00
Resident nomes Series Murray, Jord	ou state	HWW				- 50		. 55			. 8			Н	
Supporti	+	LIMAN	\$ 10,000	\$ 10,00,00 \$	10,800,00									┺	43,200.0
hlam Tobert, Staven	0.00 PM	WC	3 120.00	\$ 3120.00	2080.00									e en	
Imperior - C/S/M Buck, Charles		HWW	-	-+	-									50 6	0.000
Sr. Inspector Dismang, David	\$126,00	HWM							-					-	
Rod Warner	\$142.00	HWM					S							Н	
Subconsultants			\$ 4.503.10	\$ 4.503.10	4.503.10 \$				A 6						13 500 2
Labor Compliance (Amendment) Golden State			2,638,67	2.638.67	-1									4	791600
			131,83	131.93	- 1		-		69						395.8
Bentley Projectivise (EaDoc) EADOC					1,650.00							4		4	4 950 0
Markup on Bentley			\$ 82.50						•						247.5
ODCs			\$ 2,500.00	\$ 2,500.00 \$. \$. 49					69	· ·		_	5,000.0
Total ODCs Various				\$ 2,500,00								\perp		ш	5,000.00
Apple Valley Total Revenue Sub Total			\$ 79.435.10	* 28 435 10 4	19 701 10							_		_	100 2
nemt B			19 19 19	1 1 1 1 1 1	ш							4		4	100,00
		HAAL	9 12,101,00	3 1,144,00										. 49	19,328.00
Construction Manager - Elem 8 Loyan, Randy	\$176.00	HWM	\$ 704.00	200 00 5	97 6	, ,			A 6					-	4 400 0
		HAM							69 6		50 4	_			- 00.000
		HWM	\$ 5,400.00	\$ 5,400.00 \$					-			69			10,800.0
er Support	\$134.00	HWM									-			11	
		VVC	\$ 1,040.00	\$ 1,040.00 \$					-						2,080.00
St. Inspector Design Transfer	10,101	HWM	-						69						
		HWW	9 3,040,00						9 60			,			5,040.00
		HWM												ш	
Subconsultants				(re ,			50							•	
Labor Compliance (Amendment) Golden State							_								
Markup on GSLC			50							50					
Bentley ProjectWise (EaDoc) EADOC												4		4	
Markup on Bentley			69 1							97				60	
DDCs			\$	- 55	. \$						-	4		_	
Total ODCs Various			-	\$										40	
Hirspiria Total Revenue Sub Total			\$ 12,184.00	\$ 7,144,00 \$											10 202 DE

Page 3 of 4



MWH Constructors

VVWRA - Sub Regional Water Reclamation Plant Projects Cost Proposal - Hourly Rate Schedule

January 3, 2018

Hourly Rate Schedule

Position	Name	2017 Hourly Rate
Construction Manager - Elem A	Lovan, Randy	\$176
Resident Engineer	Reynolds, Charles	\$135
Schedule Analyst	Barton, Austin	\$134
Intern - Element A	Tolbert, Steven	\$26
Sr. Inspector	Dismang, David	\$126

Construction Management Services - Standard Clarification for Fee Proposal

General:

Our proposal is based on the construction and professional scope provided in the Request for Proposal. Our final contract budget will be based on the project assignment and the attached Fee Proposal. Field staffing will be driven by project demands, confirmed by a baseline and approved by the District. All costs are subject to negotiation.

Prevailing Wage:

All Prevailing Wage requirements will be followed by the team and its subconsultants. All team members are in conformance with the State of California Labor compliance requirements.

Rates for the Construction Management Team

Rates for the CM team include computers, computer software, digital cameras, digital video cameras, cell phones and cell phone service, mail, telephone charges, technical reference materials, training and personal protective equipment (PPE) including hard hats, safety boots, work gloves, safety glasses and other PPE as required. The Hourly Rate Schedule as included in MWH's Cost Proposal list the Hourly rates for each position for the duration of the project. Overtime rate shall be billed at 1 ½ the posted rate. An annual escalation of 2.5 % per year shall apply, and/or escalations per the Federal and State Prevailing Wage Laws, whichever is greater. The Annual rate increases will be reviewed and negotiated in January of each calendar year with implementation beginning on March1 of each calendar year.

Rates - Standard Inclusions

Rates above include vehicle mileage, computers, standard computer software, digital cameras, digital video cameras, standard cell phones and standard cell phone service including text capability, mail, general office supplies, technical reference materials, training and personal protective equipment (PPE) including hard hats, safety boots, work gloves, safety glasses and other PPE as required.

Rates - Standard Exclusions

Items excluded from the rates are overtime, printers/copiers/scanners, paper for any and all reproduction, prints, office supplies, plotting and record mapping copies, broadband service, broadband/high speed connections, delivery service, facsimile transmission, trailer rental costs, installation of utilities, cost of utilities, cost of sanitary services, janitorial, furniture, travel and per diem outside the service area for in-plant fabrication inspection. Travel costs outside the service area will be determined after receiving prior approval from the District. Reimbursement costs will be included as 'Other Direct Costs'. Services such as cost estimating, forensic scheduling and supplemental inspection not requested in the RFP are NOT included or priced herein.

Other Direct Costs

Other Direct Costs including subconsultants will be billed directly at cost plus a 5% markup. Vehicle and mileage expenses shall be billed at cost plus a 5% markup.

Payment Terms

Payment statements shall be submitted monthly. The statement will indicate the work completed and hours of service rendered during the period. The client shall, within 45 days of receiving such statement review the statement and pay all approved charges thereon.

Legal

All subconsultants will be bound to the final terms and conditions of the prime agreement.

Geotechnical and Materials Testing Services

Geotechnical and Materials Testing Service fees are <u>NOT</u> included in the scope of services. The coordination of these services is included in our scope of services.

Survey Baseline Control

Survey services and fees are <u>NOT</u> included in the scope of services. The coordination of these services is included in our scope of services.

Field Office

Cost for field office shall be paid by the contractor and NOT included.

Victor Valley Wastewater Reclamation Authority



Financial and Cash Report

February 2018

Victor Valley Wastewater Reclamation Authority CASH AND RESERVE SUMMARY March 5, 2018

G/L Account Description	Balance						
1000 DCB Checking Account	\$ 1,113,000						
1030 DCB Sweep Account	627,952						
1075 Cal TRUST	3,090,433						
1070 LAIF	1,535,039	\$65 mil Max					
Total Cash	\$ 6,366,424						
Passage.		0	•	M-1 A-1			
Reserves:	Current Balance	Restricted	Assigned	Not Assigned			
Targeted Capital Reserve O&M Reserve: 10% of Prior Year Budgeted Operating Expenses	\$ = \$	\$ \$	1,081,523	\$ -			
R&R Reserve: 1% of Land Improvements/Plants/Interceptors PY CAFR	700,000		1,670,006				
Reserve for SRF Payments (P& I) - Operating	2,819,883	2,819,883	1,870,008				
Reserve for SRF Payments (P& I) - Capital	2,431,926	2,431,926					
Available for O&M	414,615	2,431,320					
Total Cash	\$ 6,366,424 \$	\$ 5,251,809 \$	2,751,529	\$ -			
Note 1: ACCUMULATION FOR SRF LOAN PAYMENTS:	9.5 MGD, 11.0 MGD, NAVI, Phase	Upper Narrows	Nanticoke	Sub-Regional Apple Valley	Sub-Regional Hesperia	Total	
	III-A	Replacement	Bypass				
Reserve for SRF Payments (P& I) - Operating	\$ 782,104	257,745	178,764	640,818	960,452 \$	2,819,883	
Reserve for SRF Payments (P& I) - Capital	1,348,576		59,588	409,703	614,059	2,431,926	
	\$ 2,130,680	257,745	238,352	1,050,521	1,574,511	5,251,809	
Note 2: PROJECTS AND FUNDING:							
	Bureau of	Dept. of Water	SWRCB SRF	SWRCB SRF	SWRCB -	SWRCB - Water	
a. Construction and Change Orders for Sub-Regional Plants	Reclamation -	Resources -	Loan -	Loan - Apple	Proposition	Recycling Prop	Total
	Title 16 Grant	Proposition 84	Hesperia	Valley	One Grant -	13 Grant - A.V.	
	07/04/40	Grant			A.V.		
Completion (or Termination) Dates	05/31/16	12/31/17	06/30/17	06/30/17	06/30/17	03/31/17	75 250 500
Agreement Amounts			35,442,795				76,358,598
Claimed Grant and Loan Balance Remaining	(3,242,523)	(3,000,000)	(32,062,524)	(20,109,752)	(7,786,693)	(3,976,548)	(70,178,040)
Grant and Loan balance Remaining	\$\$		3,380,271	2,427,880	348,955 \$	23,452 \$	6,180,558
	Bureau of	Dept. of Water	SWRCB	SWRCB	SWRCB -	SWRCB - Water	
b. Planning and Design for Sub-Regional Plants	Reclamation -	Resources -	SRF Loan -	SRF Loan -	Proposition	Recycling Prop	Total
	Title 16 Grant	Proposition 84	Hesperia	Apple Valley	One Grant -	13 Grant - A.V.	, otal
التحصيصات والتعالب والتعالب		Grant		ونسلسا	A.V.		
Completion (or Termination) Dates	05/31/16	not applicable	06/30/17	06/30/17	06/30/17	not applicable	
Agreement Amounts		- \$	5,107,160 \$			- \$	12,295,957
Claimed Grant and Loan Balance Remaining	\$\frac{(1,607,477)}{\$\frac{1}{2}}\$	- s	(3,134,436) 1,972,724 \$	(4,413,807) 121,320	(1,038,301)	s	(10,194,020)
·	7		1,372,724	121,320	7,892		2,101,937
c. Upper Narrows Emergency							
*FEMA/Cal OES PW 1136 Revised Grant Limit - Completion 12/27/1	5 \$		7,954,740				
Eligible Cost Incurred 12/26/10 - 11/06/16			(7,750,326)				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining	5 \$ \$						
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received:	\$		(7,750,326)				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500)	\$ \$ 5,231,470		(7,750,326) 204,414				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875)	\$		(7,750,326)				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share:	\$ \$ 5,231,470 1,307,868 \$		(7,750,326) 204,414 6,539,338				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625)	\$ \$ 5,231,470		(7,750,326) 204,414				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion:	\$ 5,231,470 1,307,868 \$ 484,395		(7,750,326) 204,414 6,539,338 484,395				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625)	\$ 5,231,470 1,307,868 \$ 484,395 726,593		(7,750,326) 204,414 6,539,338 484,395 726,593				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10	\$ 5,231,470 1,307,868 \$ 484,395		(7,750,326) 204,414 6,539,338 484,395				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement	\$ 5,231,470 		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326	WE SH			
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15	\$ 5,231,470 1,307,868 \$ 484,395 726,593		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining	\$ 5,231,470 		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive:	\$ 5,231,470 1,307,868 \$ 		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .7500)	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$		(7,750,326) 204,414 6,539,338 484,395 7,26,593 7,750,326 33,124,002 (33,124,002)				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875)	\$ 5,231,470 1,307,868 \$ 		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .1875) VVWRA Share:	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ 22,358,701 5,589,675 \$		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 (33,124,002)				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625)	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$		(7,750,326) 204,414 6,539,338 484,395 7,26,593 7,750,326 33,124,002 (33,124,002)				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion:	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 22,358,701 \$ 5,589,675 \$ \$ \$ 2,070,250		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 (33,124,002) 				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625)	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ \$ \$ 22,358,701 5,589,675 \$ 2,070,250 3,105,375		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 - 27,948,377 2,070,250 3,105,375				
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion:	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 22,358,701 \$ 5,589,675 \$ \$ \$ \$ 2,070,250 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 (33,124,002) 27,948,377 2,070,250 3,105,375 33,124,002	Remaining			
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ \$ \$ \$ \$ 22,358,701 \$ 5,589,675 \$ \$ 2,070,250 \$ 3,105,375 \$ \$ incurred		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 (33,124,002) - 27,948,377 2,070,250 3,105,375 33,124,002 Claimed	Remaining			
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 *SRF Loan Construction	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ \$ \$ \$ \$ 22,358,701 5,589,675 \$ 2,070,250 3,105,375 \$ incurred 1,655,130		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 27,948,377 2,070,250 3,105,375 33,124,002 Claimed (1,655,130)	- Remaining			
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 *SRF Loan Construction Change Orders	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ \$ \$ \$ 22,358,701 5,589,675 \$ 2,070,250 3,105,375 \$ Incurred 1,655,130 1,825,000		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 (33,124,002) 27,948,377 2,070,250 3,105,375 33,124,002 Claimed (1,655,130) (1,825,000)	Remaining			
Eligible Cost Incurred 12/26/10 - 11/06/16 Grant Balance Remaining Funding Received or To Be Received: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 d. Upper Narrows Replacement *FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15 Eligible Costs Incurred 04/01/11 - 08/31/16 Grant Balance Remaining Funding Received or Expected to Receive: FEMA (Claims x .90 x .7500) Cal OES (Claims x .90 x .1875) VVWRA Share: VVWRA (Claims x .0625) 10% Retention to Be Received upon Completion: (Claim - VVWRA portion) x .10 *SRF Loan Construction	\$ 5,231,470 1,307,868 \$ 484,395 726,593 \$ \$ \$ \$ \$ \$ \$ \$ \$ 22,358,701 5,589,675 \$ 2,070,250 3,105,375 \$ incurred 1,655,130		(7,750,326) 204,414 6,539,338 484,395 726,593 7,750,326 33,124,002 27,948,377 2,070,250 3,105,375 33,124,002 Claimed (1,655,130)	Remaining -			

Victor Valley Wastewater Reclamation Authority Statement of Net Position February 28, 2018

Assets and Deferred Outflows of Resources		2018
Current assets:		
Cash and cash equivalents	\$	13,050,980
Interest receivable		7,870
Accounts receivable		4,949,552
Receivable from FEMA Grants		4,148,183
Accounts receivable - Other		10,439
Allowance for Doubtful Accounts		(64,828
Materials and supplies inventory		86,516
Prepaid expenses and other deposits		253,378
Total current assets		22,442,090
Fixed assets:		
Capital assets not being depreciated		84,459,832
Capital assets being depreciated		115,816,945
Capital assets being depreciated	-	113,010,343
Total capital assets	_	200,276,777
Total assets	_	222,718,867
Deferred outflows of resources		
Deferred outflows of resources - pension	_	1,743,035
Total	\$	224,461,902
Liabilities, Deferred Inflows of Resources, and Net Position	=	
Current liabilities:		
Accounts payable and accrued expenses	\$	577,024
Accrued interest on long-term debt		75,383
Long-term liabilities - due within one year:		•
Compensated absences		48,647
Loans payables		1,849,149
Other payables	_	6,813,575
Total current liabilities		9,363,778
Non-current liabilities:		
Long-term liabilities - due in more than one year:		
Compensated absences		219,396
Other post employment benefits payable		1,419,041
Loans payable		81,916,732
Net Pension Liability		5,011,624
Other payables	-	446,818
Total non-current liabilities:	-	89,013,611
Total liabilities	_	98,377,389
Deferred inflows of resources		
Deferred inflows of resources - pension	_	165,023
Net position:		
Net position as of 6/30/17		127,976,675
Restricted for SRF loan covenant		2,863,641
Decrease in net position FY 18		(4,683,960)
-	-	125,919,493
Total net position	-	123,919,493

Victor Valley Wastewater Reclamation Authority

Revenues and Expenses

Operations and Maintenance

For the Month Ended February 28, 2018

]	Actual February 2018	YTD Actual FY 17-18	Approved Budget FY 17-18
REVENUES				
User Charges	\$	1,045,750 \$	8,838,771 \$	13,661,700
Sludge Flow Charge		8,994	71,411	137,074
High Strength Waste Surcharges		, -	11,876	25,000
ADM FOG Tipping Fee Revenue		23,133	200,358	205,000
Septage Receiving Facility Charges		44,056	420,811	609,000
Reclaimed Water Sales		2,025	11,929	44,000
Potable Well Water Sales		54	643	650
Leased Property Income		50	400	600
Interest		(674,587)	(674,216)	-
Pretreatment Fees		6,200	37,100	51,200
Finance Charge		-	-	-
Grant - FEMA/Cal-EMA		-	-	747,034
Grant - Proposition 1		-	-	458,297
Grant- Water Recycling		-	-	246,466
Grant- CEC Microgrid		-	263,529	*
Sale of Assets, Scrap, & Misc Income	2=	225	3,876	2
Total REVENUES	\$_	455,900 \$	9,186,489 \$	16,186,021
EXPENSES				
Personnel	\$	250,729 \$	2,701,153 \$	4,086,603
Maintenance		51,603	1,022,717	2,919,360
Operations		173,243	1,647,829	3,066,985
Administrative		57,922	1,039,339	2,270,884
Construction		- -		2,389,065
Total EXPENSES	\$_	533,497 \$	6,411,038 \$	14,732,897
Revenues over Expenses before Depreciation, Debt Service and Transfers	\$	(77,597) \$	2,775,451 \$	1,453,124
Depreciation Expense			(4,724,611)	
DEBT SERVICE SRF Interest	\$	- \$	- \$	261 120
SAT merest	3 _	- 5		361,138
FUND TRANSFERS IN				
Salary/Benefits Charge from Capital	\$	8,712 \$	43,560 \$	-
Admin Charge from Capital	_	3,311	16,553	_
Total FUND TRANSFERS IN	\$_	12,023 \$	60,113 \$	
FUND TRANSFERS OUT				
Transfer to Repairs and Replacements Fund	\$	- \$	- \$	247,500
Inter-fund loan payment to Capital		-	(3,254)	<u>-</u>
Total FUND TRANSFERS OUT	\$_	_ \$	(3,254) \$	247,500
Excess Revenues Over Expenses	\$_	(65,574) \$	(1,892,302) \$	844,486

Victor Valley Wastewater Reclamation Authority Revenues and Expenditures

Repairs and Replacement

For the Month Ended February 28, 2018

		Actual February 2018	YTD Actual FY 17-18	3	Approved Budget FY 17-18
REVENUES					
R&R Revenues	\$	-,3	\$ -	\$	-
Total REVENUES	\$	-	\$	\$ _	
OTHER FINANCING SOURCES					
SRF Loan Funding	\$	- !	§	\$	
CAPITAL EXPENSES					
Personnel	\$	- 5	\$ -	\$	-
Maintenance		-	43,045		242,500
Operations		12,592	88,147		-
Administrative		-	-		5,000
Construction					
Total CAPITAL EXPENSES	\$	12,592	131,192	\$_	247,500
Revenues over Expenses before Debt Service and Transfers	\$_	(12,592)	(131,192)	\$_	(247,500)
DEBT SERVICE					
SRF Interest	\$	- 5	-	\$	-,
	3			-	
FUND TRANSFERS IN					
Transfer from Operations and Maintenance Fund	\$	- 5	247,500	\$	247,500
Interfund Loan Payment from O&M Total FUND TRANSFERS IN	\$		247,500	s -	247,500
TOME FORD TRANSFERS IN	Φ.	<u>_</u>	247,300	D -	247,300
FUND TRANSFERS OUT					
Salary/Benefits Charge to O & M	\$	- 5	-	\$	-
Admin Charge to O & M		<u> </u>			
Total FUND TRANSFERS OUT	\$_			\$_	
Excess Revenues Over Expenses	\$ =	(12,592)	116,308	\$=	<u>-</u>

Accrual Basis

Victor Valley Wastewater Reclamation Authority Revenues and Expenditures CAPITAL

For the Month Ended February 28, 2018

		Actual February 2018	YTD Actual FY 17-18	=	Approved Budget FY 17-18
REVENUES					
Connection Fees	\$	20,600 \$	956,081	\$	878,900
Title 16 Grant - Subregional		-	-		-
Grant- Water Recycling		-	350,648		157,577
Sale of Assets, Scrap, & Misc Income		-	-		-
Interest		7,185	46,201		38,000
Propostion 1 Grant		-	650,367		293,010
Propostition 84 Grant		-	-		
FMV Adjustment		-	1,612		-
Grant - FEMA/Cal-EMA		-	-		3,105,375
Total REVENUES	\$_	27,785 \$	2,004,909	\$_	4,472,862
CADVEAU EVENINES					
CAPITAL EXPENSES Personnel	\$	- \$		•	416.716
Maintenance	Ф	- 2	-	\$	416,716
		-	-		40,000
Operations Administrative		-	(2.054)		170
Construction		-	(2,054)		140,000
Total CAPITAL EXPENSES	s -		4,733,202	_	2,482,435
IOIAI CAFITAL EXPENSES	Φ =		4,731,148	^{\$} _	3,079,321
Revenues over Expenses before Debt Service and Transfers	\$	27,785 \$	(2,726,239)	\$_	1,393,541
DEBT SERVICE					
SRF Interest	\$	40,978 \$	124,869	\$	209,281
				-	209,281
FUND TRANSFERS IN					
Capital Recovery - Septage from O&M	\$	- \$	_	\$	_
Interfund Loan Payment from O&M	-	-	3,254	•	
Total FUND TRANSFERS IN	\$ _		3,254	s ⁻	
FUND TRANSFERS OUT					
	S	0.710 6	12.560	•	
Salary/Benefits Charge to O & M Admin Charge to O & M	3	8,712 \$	43,560	\$	-
Total FUND TRANSFERS OUT	, i—	3,311	16,553	ф.	
TOTAL LOUID TRANSPERS OUT	a –	12,023	60,113	\$ _	
Excess Revenues Over Expenses	\$=	(25,216) \$	(2,907,967)	s=	1,184,260

Accrual Basis

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY SRF LOAN SUMMARY

February 28, 2018

		Total Agreed	SRF Loans
In Progress		Hesperia	Subregional
In Progress		Apple Valley	Subregional
In Progress	Nanticoke	Pump Station	Bypass
Existing	S	Replacement	Project
Existing	Phase IIIA	Regulatory	Ungrades
Existing	North Apple	Valley	Interceptor
Existing		11 MGD	Expansion
Existing	9.5 MGD	Capital	Improvements

SRF LOANS

Annual Payment Due Date Original Amount Financed Annual Payment Amount SRF Interest Rate (fixed) SRF Amount Borrowed Principal Forgiveness Local Match Amount Loan Term (years) Years remaining

3,000,000.00

1,905,159.00

109,931,185.05

40,658,809.92 1,574,511.25

27,129,023.47 1,050,520.94

4,459,190.00 238,350.61

4,286,380.00 257,745.38

3,000,000.00 15,717,667.66 1,027,609.73

> 4,084,688.00 258,151.05

9,525,567.00 579,869.96

4,069,859.00

n/a

265,049.56

September 15

20 N

n/a

1,905,159.00

0.00%

n/a

n/a

n/a

n/a

5,251,808.48

Varies

February 28

February 28

June 30

December 31

June 30

February 13

April 3

20

2

20 15

20 13

20 20

30 30

30 30

Varies Varies

\$ 114,700,237.39

40,658,809.92

27,129,023.47

4,459,190.00 \$

4,286,380.00

\$ 18,581,561.00 \$

\$ 11,430,726.00 | \$ 4,084,688.00

4,069,859.00

2.60%

2.70%

2.50%

1.90%

1.90%

1.00%

1.00%

Varies

DEBT SERVICE

Loan Outstanding Balance Principal Paid to Date Interest Paid to Date Final Payment Date First Payment Date

Effective interest rate

92,652,212.10 17,278,972.95 5,853,653.84 Varies Varies Varies February 28, 2048 February 28, 2048 40,658,809.92 February 28 2019 1.00% February 28 2019 27,129,023.47 1.00% 4,459,190.00 Jun 30, 2018 Jun. 30, 2037 1.900% 3,187,940.73 Dec. 31, 2016 Dec. 31, 2032 ,098,439.27 110,860.41 1.900% 3,179,641.69 12,538,025.97 1,900,631.83 June 30, 2013 June 30, 2032 2.700% 1,421,928.33 2,662,759.67 Feb. 13, 2005 Feb. 13, 2024 934,964.01 2.499% 6,778,392.59 2,747,174.41 1,752,983.59 April 3, 2003 April 3, 2022 1.850% 510,119.27 1,154,214.00 3,559,739.73 Sept. 15, 2000 Sept. 15, 2019 2.544%

^{*} An imputed interest rate is 1.707% per annum.

Victor Valley Wastewater Reclamation Authority Flow Study

For the Month Ended January 31, 2018

Measured by ADS	Percentage of Total	Monthly
	%	MG
VSD 1 (less North Apple Valley)	5.9292%	21.3960
VSD 2	14.1056%	50.9010
VSD 3	26.2099%	94.5800
VSD 4	7.5495%	27.2430
VSD 5	0.4742%	1.7110
VSD 6	6.2964%	22.7210
VSD Total	60.5648%	218.5520
Apple Valley 01	10.1728%	36.7092
Apple Valley 02	5.4260%	19.5800
Apple Valley North	0.0876%	0.3160
Apple Total	15.6864%	56.6052
Hesperia	18.4456%	66.5620
CSA 64 SVL	4.8191%	17.3900
CSA 42 Oro Grande	0.4842%	1.7470
CSA Total	5.3033%	19.1370
Total Apportioned Flow	100.0000%	360.8562
Mojave Narrows Regional Park		0.1000
Total Study Flow		360.9562

Subregional Water Reclamation Plant Projects 2/28/2018 Apple Valley

Costs Incurred Up to 2/28/2018	Expended to	Contract	Total Remaining
Planning/Design/Construction Management	Date	Amount	Total Kelliallillig
Planning	1,278,710	970,271	(308,439)
(Carollo/HDR) Design	2,552,681	3,117,326	564,645
(MWH) Construction Management	2,089,402	1,455,410	(633,992)
(Carollo/HDR) Engineering Services During Construction	1,816,322	1,610,418	(205,904)
Sub-Total	7,737,115	7,153,425	(583,690)
Construction			
Construction	32,940,490	32,670,000	(270,490)
	Expended to	Contra	ct Amount
Change Order (Contingency)	Date	SRF Loan	Lyles
Planning/Design/Construction Management	- "	1,001,640	-
Construction - Cascade Drilling	252,951	376,986	-
Construction - Lyles	709,845	624,654	500,000
Sub-Total	962,796	2,003,280	500,000

Total	41,640,401	42,326,705	1,649,100
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Eligible for Reimbursements	Claimed	Contract	THE PARTY OF
Eligible for Kellibursellielits	Claimed	Amount	Total Remaining
Title 16	2,404,756	2,419,631	14,875
Proposition 13 - Recycling Grant	3,840,817	4,000,000	159,183
Proposition 84-AV Construction Cost	772,414	1,487,478	715,064
Proposition 01-AV Planning/Design/Construction Management	1,038,301	1,046,193	7,892
Proposition 01-AV Construction Cost	7,534,420	8,135,648	601,228
Total Grants	15,590,708	17,088,950	1,498,242
% of Total Project		39%	
SRF-AV Planning/Design/Construction Management	4,413,807	4,535,127	121,320
SRF-AV Construction Cost	21,635,886	22,537,632	901,746
Total	41,640,401	44,161,709	2,521,308

Claims Made as of 2/28/2018		Requested	Contract	Control of the last
			Amount	Total Remaining
Title 16		2,404,756	2,419,631	14,875
Proposition 13 - Recycling Grant		3,976,548	4,000,000	23,452
Proposition 84-AV Construction Cost		772,414	1,487,478	715,064
Proposition 01-AV Planning/Design/Construction Management		1,038,301	1,046,193	7,892
Proposition 01-AV Construction Cost		7,786,693	8,135,648	348,955
T	otal Grants	15,978,712	17,088,950	1,110,238
SRF-AV Planning/Design/Construction Management		4,413,807	4,535,127 *	121,320
SRF-AV Construction Cost		20,109,752	22,537,632	2,427,880
Total		40,502,271	44,161,709	3,659,438

^{*}Note: Proposition 01 grant of \$9.2M reduces AV SRF loan to \$4.5M.

Subregional Water Reclamation Plant Projects 2/28/2018 Hesperia

Costs Incurred Up to 2/28/2018	Expended to	Contract	Total
Planning/Design/Construction Management	Date	Amount	Remaining
Planning	895,080	624,264	(270,816)
(Carollo/HDR) Design	3,106,096	3,580,792	474,696
(MWH) Construction Management	2,503,033	1,479,914	(1,023,119)
(Carollo/HDR) Engineering Services During Construction	1,625,953	1,687,052	61,099
Sub-Total	8,130,162	7,372,022	(758,140)
Construction			
Construction	32,843,886	33,220,000	376,114
[Expended to	Contract	Amount
Change Order (Contingency)	Date	SRF Loan	Lyles
Planning/Design/Construction Management	-	1,111,398	-
Construction - Cascade Drilling	463,231	383,334	-
Construction - Lyles	708,198	728,063	500,000
Sub-Total	1,171,429	2,222,795	500,000

Eligible for Reimbursements	Claimed	Contract Amount	Total Remaining
Title 16	2,445,244	2,460,369	15,125
Proposition 84-HES Construction Cost	2,227,586	1,512,522	(715,064)
Total Grants	4,672,830	3,972,891	(699,939)
% of Total Project		9%	
SRF-HES Planning/Design/Construction Management	3,134,436	7,329,955	4,195,519
SRF-HES Construction Cost	34,338,211	33,220,000	(1,118,211)
Total	42,145,477	44,522,846	2,377,369

Total

42,145,477 43,314,817

1,169,340

Claims Made as of 2/28/2018		Requested	Contract Amount	Total Remaining
	Title 16	2,445,244	2,460,369	15,125
Proposition 84-HES Cor	nstruction Cost	2,227,586	1,512,522	(715,064)
	Total Grants	4,672,830	3,972,891	(699,939)
SRF-HES Planning/Design/Construction	n Management	3,134,436	7,329,955	4,195,519
SRF-HES Cor	nstruction Cost	32,062,524	33,220,000	1,157,476
	Total	39,869,790	44,522,846	4,653,056

Nanticoke Interceptor

2/28/2018

Costs Incurred Up to 2/28/2018	Expended to	Contract	Total
Planning/Design/Construction Management	Date	Amount	Remaining
Planning		342,397	342,397
Design		101,524	101,524
Construction Management	476,557	407,373	(69,184)
Engineering Services During Construction			-
Sub-Total	476,557	851,294	374,737
Construction			
Construction - Christensen Brothers GE Inc.	3,202,494	3,207,896	5,402
	Expended to	Contract	Amount
Change Order (Contingency)	Date	SRF Loan	
Planning/Design/Construction Management			-
Construction	780,139	400,000	(380,139)
Sub-Total	780,139	400,000	(380,139)
	4.450.400	4 450 400	$\overline{}$

Total	4 4EQ 100	4 450 100	
TOTAL	4,459,190	4,459,190	

Eligible for Reimbursements	Claimed	Contract Amount	Total Remaining
SRF-Planning/Design/Construction Management	476,557	851,294	374,737
SRF-Construction Cost	3,982,633	3,607,896	(374,737)
Total	4,459,190	4,459,190	-

Claims Made as of 2/28/2018	Requested	Contract Amount	Total Remaining
SRF-Planning/Design/Construction Management	476,557	851,294	374,737
SRF-Construction Cost	3,982,633	3,607,896	(374,737)
Total	4,459,190	4,459,190	-

VVWRA Upper Narrows Interceptor and Emergency Projects 2/28/2018

Upper Narrows Interceptor and Emergency Projects 2/28/2018

Upper Narrows Interceptor (E004)

Planning/Design/Construction Management	Expended to Date	Contract Amount	Total Remaining
Planning	449,368	277,990	(171,378)
(Tetra Tech) Design	737,952	783,481	45,529
(URS/AECOM) Construction Management	1,642,759	993,673	(649,086)
(TetraTech) Engineering Services During Construction	531,269	348,290	(182,979)
Total	3,361,348	2,403,434	(957,914)
Construction			
Construction - J.W. Fowler	26,136,908	26,482,075	345,167
Construction - AV Construction	1,525,267	863,371	(661,896)
Contingency	Expended to Date	Contract Amount	
(Tetra Tech) Design	-	-	
(URS/AECOM) Construction Management	271,346	325,612	54,266
(TetraTech) Engineering Services During Construction	-	-	-
Construction - J.W. Fowler	3,536,620	3,536,620	
Construction - AV Construction	214,287	214,287	-
Total	35,045,776	33,825,399	(1,220,377)
Claimed to Date			
FEMA/CalOES	27,948,377	29,811,603	1,863,226
FEMA/CalOES 10% Retention	3,105,375	3,312,400	207,025
UNR SRF Loan	3,515,952		
Total	34,569,704	33,124,003	2,070,251

Upper Narrows Emergency (E003)

Spent to Date 2/28/2018	
Planning/Design/Construction Management	Expended to Date
Materials	811,401
Rented Equipment	3,226,387
Contracts	3,899,051
Force Account OT	42,805
Force Equipment	274,341
2 1	
Total	8,253,985

Recei	ved	to	Date	

FEMA/CalOES	
FEMA/CalOES 10% Retention	726,593
Total Grants to Date	
VVWRA 6.25% Unreimburseable Cost	484,395
Total	7,750,326

Victor Valley Wastewater Reclamation Authority



Operations and Maintenance Report

February 2018

VVWRA O&M Monthly Report – February 2018

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Victor Valley Wastewater Reclamation Authority **Operations and Maintenance Report** February 2018

TO:

Logan Olds, General Manager

FROM:

Operations & Maintenance Staff

SUBJECT: OPERATIONS/MAINTENANCE REPORT

DATE: March 2, 2018

The following information details the operation of the Victor Valley Wastewater Reclamation Authority Facility. Included in this report is pertinent information regarding flows, process control information, process sampling, permit requirements, operations activities, and facility maintenance activities. This report is based on O&M activities for February 2018.

	Total	Average
Effluent to Mojave	155.49	5.5532
Effluent to Ponds	151.83	5.4225
	×	
		Limit
Biochemical Oxygen Demand (BOD)		10 mg/l
Effluent to Mojave	< 5.00	
Percent Removal	>98.491	
		Limit
Total Suspended Solids (TSS)		10 mg/l
Effluent to Mojave	<2.0	
Percent Removal	>99.338	
-		Limit
Turbidity		2.0 ntu
30 Day Average	0.4	

Major Operations Activities

Headworks

The Headworks area operated as intended throughout the months with normal equipment maintenance performed on a weekly basis.

Primary Treatment

Overall removal efficiency of the primary clarifiers was 52.88% removal of influent BOD and 69.01% removal of TSS. Typical operating parameters are 25 to 35 percent removal of BOD and 50 to 60 percent removal of TSS. The primary sludge concentration averaged 3.47% total solids at 67,304 gallons per day.

Primary clarifiers #1, #2, #3, #4, #5 and #6 are currently online and continue to treat all incoming flow. Primaries #7 and #8 remained offline for the month. With two clarifiers offline, the remaining 6 primary clarifiers are capable of treating peak flows up to 23 MGD.

The digester gas conditioning system remains online. The system will prevent premature wear and tear on engines #2 & #3 by removing siloxanes by the addition of ferric chloride. The system increases fuel pressure to the blower gas system, allowing for more output from the blower engine. Digester #4 and 5 gas is mixed and sent to the gas conditioning system. This all but eliminates the use of Natural gas to run engines #2 and #3.

Staff continues to add ADM/ Grease to Daft #3 from Primaries and truck deliveries where it is the then feed it to Digesters #4 and #5. This operation is assisting in additional grease removal from the primary clarifiers and increased gas production in the anaerobic digesters.

Secondary Process

Secondary Clarifiers #1 thru #6 are currently offline, not needed at this time.

VVWRA O&M Monthly Report – February 2018

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Aeration basins #1 thru 12 have been retrofitted with the new Aquarius diffusers and are currently performing very well reducing the RPM's on the Piller blower. Currently basins #1-6 and 7-12 are online.

Piller #1 is supplying air to basins #1-6, mixed liquor channel and aerated grit chamber. Waukesha Blower # 5 is online and is supplying AB's #7-12.

Staff continues to monitor the solids under aeration and SVI to compare against the SRT Master Control Program. The SRT Master program is performing well. The secondary process has been performing well as a result of the SRT Master Control Program. Weekly Nitrogen studies performed by VVWRA staff produced results below regulatory requirements.

Thioguard was not used during the month.

Secondary turbidity averaged 1.54 (NTU) during the month of February 2018 The 30 minute settleometer test averaged 214.6 mL/L. The average "pop time" of the MLSS was >91 min.

Percolation Ponds

South percolation ponds #7, #8, #10, #11, #12 and #13 were used and rotated during the month.

All Percolation Pond freeboard level requirements have been met during the month. All ponds are being rotated on a daily basis.

Percolation Pond #6 remains off line and drained to minimal levels. No flow seepage has been observed.

The north percolation ponds were used sparingly during the month.

Tertiary Filters

Aqua Diamond Filters #1 and #2 were utilized for the month of February. Filter Effluent average Turbidity of 0.53 NTU.

Solids

VVWRA O&M Monthly Report – February 2018

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Digester's #1, #2 and #3 remain off line.

Staff has been operating Digester #4 and #5 at predetermined sludge levels which is controlled by the SCADA system.

VVWRA received 578,328 gallons of ADM (Anaerobically Digestible Material) and FOG (Fats Oil and Grease). Total is comprised of 578,273 gallons of ADM and 50,000 gallons of FOG.

A Total 21,808,956 cf/day of gas was created by digesters #4 and 5 for the month of February 2018. That is an average gas production of 778,891 cf/day.

Digester #4 averaged 415,566 cf/day.

Digester #5 averaged 363,325 cf/day.

Digester Volatile Acid/Alkalinity averaged 0.016 for the month.

Ultra Violet Disinfection (UV)

The UV system is currently operating via one channel mode.

Monthly UV intensity probe and flow meter calibration checks were performed.

Permit Continuous Monitoring Requirements and Permit Violations

All permit required, continuous monitoring equipment was on-line, in calibration and working properly during the month.

Date of last reportable incident: March 10, 2015

Days since last reportable incident: 1087

days

Discharge Sampling

All required samples during the month of February 2018 were collected and processed as scheduled.

VVWRA O&M Monthly Report – February 2018

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Miscellaneous

Apple Valley Pump Station wet well was cleaned out twice in February 2018. Grease removed was transferred to facility scum wet well. AVPS grease continues to be pumped to the anaerobic Digesters #4 and #5.

Maintenance Activities

CMMS Work Order Activity

VVWRA KPI Report

3/1/2018 2:35 PM

2/1/2018 - 2/28/2018

KPI	Count	Percent
Planned Work Total	249	
Planned Work Completed	240	98.39%
Planned Work Completed On-Time	222	89.16%
Planned Work Incomplete	9	3.61%
Planned Work Completed Late	18	7.23%
Total Work Completed	546	
Reactive Work Completed	67	12.27%
PM Work Completed	418	76.56%

Safety

- 1. Monthly Vehicle Safety Inspections completed.
- 2. Monthly gas tech monitor inspections completed.
- 3. Eyewash safety showers inspected.

VVWRA O&M Monthly Report – February 2018

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- 4. Monthly SCBA inspections.
- 5. Hazardous storage area inspection.
- 6. Spill kit inspections.
- 7. Hazwoper Refresher.

Preliminary Process

- 1. Aqua Guard pre-treatment screen inspected and serviced.
- 2. Headwork's Conveyor Belt Lube & Inspect.
- 3. Barscreen Maintenance complete.
- 4. Septage EQ Basin cleaning.
- 5. Septage EQ pump repack.

Primary Process

- 1. All PH and conductivity probes cleaned and calibrated.
- 2. Influent PH and conductivity probe calibrations complete.

Secondary Process

- 1. Piller blowers 1 & 6 weekly inspections complete.
- 2. Service Air compressors inspection and service completed.
- 3. Waukesha engines inspections.
- 4. Piller #1 and #6 Filters Replacement.

Tertiary

- 1. Monthly gear box and platform drive wheel service complete
- 2. Filter #1 & #2 monthly platform gear box PM's comp
- 3. Filter #1 & #2 monthly backwash wasting pumps oil checks complete
- 4. All PH and conductivity probes cleaned and calibrated

Ultra Violet Disinfection (UV)

- 1. PH and conductivity probes cleaned and calibrated
- 2. UVT probe calibrated
- 3. UV blower service completed.

Treatment Disposal

- 1. DAFT #1 and #2 Air Compressors 1&2 PM services complete.
- 2. DAFT #1 lube
- 3. Sludge lagoon transfer pumps repack.

Miscellaneous Plant

Serviced AHU for Blower Buildings completed.

Plant Equipment

VVWRA O&M Monthly Report – February 2018

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G/CHP 1&2

- 1. Monthly UREA refill completed CHP #1 & #2
- 2. CHP1&2 differential pressure readings taken within normal range, Gas DP pressure collected within normal range
- 3. Monthly gas samples collected.

Gas Conditioning Skid

- 1. Blowers #1 & #2 inspections complete.
- 2. Monthly gas sampling collected.

OGPS

- 1. Monthly Gen Test completed
- 2. Pumps pulled and inspected drag

AVPS

1. Grease pump out.

OFFROAD EQUIPMENT

- 1. Brown Bear weekly PM's completed.
- 2. JCB front loader weekly PM's complete.

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1. Monthly fleet inspections completed pumps, vehicles, hose reel trailer, light towers.

Victor Valley Wastewater Reclamation Authority



Environmental Compliance Department Report
February 2018

VVWRA Environmental Compliance Department Industrial Pretreatment Program

I. Interceptors Operation and Maintenance:

1. Interceptors cleaning & CCTV:

✓ No Cleaning was performed in February

2. Interceptors Inspections:

The following interceptors were visually inspected for signs of damage, vandalism and evidence of sanitary sewer overflows:

- ✓ South Apple Valley & North Apple Valley.
- ✓ Schedule 1, 2, 3 & 4
- ✓ UNE Bypass HDPE pipe
- ✓ Hesperia, I Ave and Santa Fe.
- ✓ CSA 64
- ✓ Adelanto
- ✓ SCLA1

3. Damage and repair summary:

✓ No Damage reported

4. Sanitary sewer overflows (SSO) summary:

✓ Date of last reportable SSO: September 18th, 2018

5. Interceptors maintenance budget remaining:

✓ The fiscal year 2016-2018 Interceptor sewer maintenance amount remaining for sewer cleaning and inspection services is \$49021.11

6. Dig Alert Underground tickets processed:

✓ A total of One Hundred (100) USA Tickets were received and processed in February 2018.

7. Flow monitoring Studies:

✓ A flow monitoring study by ADS Environmental is continuing.

II. Industrial pretreatment Activities:

1. New Business Questionnaires and permits applications evaluated:

- ✓ Eight (8) New Business Questionnaires were processed in the month of February 2018.
- ✓ One (1) New Business Inspection was conducted in the month of February 2018.

2. New permits issued:

✓ One (1) New permits were issued in the month of February 2018.

3. Permit renewals issued:

✓ Eleven (11) Class III permit renewals were issued in the month of February 2018.

4. Work Orders:

✓ 62 Work Orders were completed in February 2018

5. Monthly revenues collected, and invoices issued:

- ✓ Revenues: \$1,500
- ✓ Invoiced: \$6,200

6. Lucity CMMS Software implementation:

✓ The implementation of Lucity CMMS software for the industrial pretreatment program and the operations and maintenance of interceptors including GIS is ongoing.

III. Industrial Pretreatment Activities (continued)

- 1. Current enforcement actions:
- ✓ Zero (0) Notice of Violation was issued in February 2018.
- 2. Current active industrial pretreatment permits:
- ✓ The current number of VVWRA's industrial wastewater discharge permits is 433, they are comprised as follows:

1	Class I	Categorical Industrial User
10	Class II	Non-Categorical Significant Industrial User
419	Class III	Non-Significant Industrial User
2	Class IV	Zero Discharge Industrial User
9	Class V	Sanitary Waste Haulers

✓ The permitted establishments include:

20	Automotive Service Facility
13	Bakery
1	Brewery/Winery
21	Car Wash/Truck Wash/Bus Wash
4	Coffee Shop
9	Dry Cleaner
300	FSE
22	Grocery Store
3	Hospital
1	Medical
3	Misc. Food
3	Misc. Industrial
8	Other
1	Photographic
1	Print Shop
1	Prison
4	School
4	Water Retail
9	Waste Haulers

[✓] Permitted businesses are distributed among member entities as follows: 171 in Victorville, 124 in Apple Valley, 123 in Hesperia and 1 in Oro Grande.

Victor Valley Wastewater Reclamation Authority



Environmental Compliance Department

Septage/FOG/ADM Monthly Report

February 2018

1. Septage/FOG/ADM receiving invoices and payments monthly report:

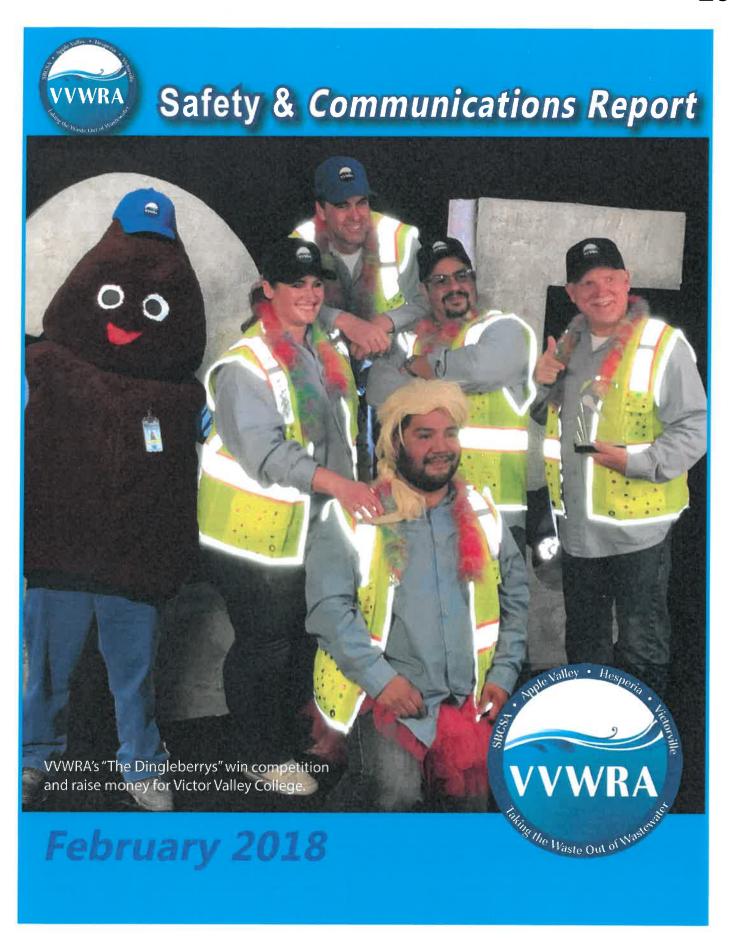
Payments and Invoices period: February 1st thru February 28th – Septage rate per Gallon: \$ 0.0936 FOG/ADM rate per Gallon: \$ 0.04

Receiving invoices

ID No	Septage Hauler	Invoice Date	Total Gallons	Invoice Amount
ABS000	Absolute Pumping	2/28/2018	36,648	\$3,430.25
ALP000	Alpha Omega Septic Service	2/28/2018	143,251	\$13,408.29
BUR000	Burns Septic	2/28/2018	100,000	\$9,360.00
HIT000	Hitt Plumbing	2/28/2018	3,435	\$321.52
HON001	Honest Johns Septic Service, Inc	2/28/2018	74,289	\$6,953.45
ROT001	T.R. Stewart Corp. dba Roto Rooter	2/28/2018	80,726	\$7,555.95
USA000	USA Septic	2/28/2018	34,400	\$3,219.84
ALP000	Alpha Omega Septic Service (Nutro)	2/28/2018	85,928	\$3,437.12
COW000	Co-West Commodities	2/28/2018	185,000	\$7,400.00
LIQ000	Liquid Environmental Solutions of CA	2/28/2018	0	\$0
SMC000	SMC Grease Specialist, Inc.	2/28/2018	307,400	\$12,296.00
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	2/28/2018	0	\$0
HIT000	Hitt Plumbing	2/28/2018	0	\$0
Grand To	tals		1,051,077	\$67,382.42

Septage/FOG/ADM receiving payments:

ID No	Business Name	Payments Received
ABS000	Absolute Pumping	\$0
ALP000	Alpha Omega Septic Service	\$4,497.12
BUR000	Burns Septic	\$8,985.60
HON001	Honest Johns Septic Service, Inc	\$0
ROT001	T.R. Stewart Corp. dba Roto Rooter	\$6,838.22
USA000	USA Septic	\$2,536.56
ALP000	Alpha Omega Septic Service (Nutro)	\$0
COW000	Co-West Commodities	\$8,000.00
LIQ000	Liquid Environmental Solutions of CA	\$0
SMC000	SMC Grease Specialist, Inc.	\$0
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	\$0
HIT000	Hitt Plumbing	\$137.40
Grand Total		\$30,994.90





STAFF SAFETY TAILGATE/ORIENTATION

• Feb. 1 - Handwashing



• Feb. 8--Hand safety



· Feb. 15--Ergonomics



• Feb. 22--slips, trips and falls





SAFETY POLICY REVIEWS/ REVISIONS

- Electrical Safety Program
- OSHA Form 300A submitted.

SAFETY EVENTS/ TRAINING

- · Safety tailgates
- · hazwoper refresher course

UNSAFE CONDITIONS REPORTED/RESOLVED

- New safety signs on used oil tank and in haz mat storage
- Carollo report on the condition of digester 4 & 5

DATE OF LAST REPORTABLE ACCIDENT/INJURY: SEPT. 18, 2017

DAYS SINCE LAST REPORTABLE ACCIDENT/INJURY: 163 DAYS



NEXT MONTH'S SCHEDULE OF STAFF TRAINING/SAFETY EVENTS :

- Safety Tailgates will be conducted at the Thursday weekly staff briefings.
- Safety Tailgates will be conducted at the monthly Administrative staff meetings.

Communications

MWA Water Summit



Made in the High Desert event





Communications

ACTIVITIES

 Continued work on updating new website including work on internal pages



 Maintained current website and social media sites including Facebook & Twitter.



• VVC Foundations lip sync battle winners

