



MWH Constructors, Inc.

Professional Construction Management Services

Marina Coast Water District

**REGIONAL URBAN WATER AUGMENTATION PROJECT
RECYCLED WATER PIPELINE AND BLACKHORSE RECYCLED WATER**

7/24/2017 Revised 08/14/17

Cost Proposal Summary

Description			Project
TASK A - REQUIRED WORK			
Labor Hours	5,164		5,164
Labor Cost	\$ 846,233		\$ 846,233
<i>Subtotal Cost</i>			\$ 846,233
Average Labor Cost / Hour / Year			\$ 163.87
SUBCONSULTANTS:			
Kleinfelder - Geotechnical & Materials Testing Services	Allowance		\$ 31,000
Kleinfelder - CWI Specialty Inspection Services	Allowance		\$ 39,494
Silveira - Labor Compliance Consulting	Allowance		\$ 36,500
MCS Inspection Group - NACE Certified Coating Inspection Services	Allowance		\$ 45,612
Bentley - ProjectWise Construction Management Software (formally EaDOC)	Allowance		\$ 28,000
PIO Website Allowance - Cloud Software	Allowance		\$ 20,000
Field Office Allowance: Rental & Utilities (14 mo @ 2,500/mo.) & Used Furniture	Allowance		\$ 39,000
		Subtotal	\$ 239,606
		10% Mark Up	\$ 23,961
		Subconsultant Subtotal Cost	\$ 263,567
ODC's			
Billable ODCs per Basis of Other Direct Costs			\$ 136,425
		10% markup	13,643
		Subtotal	150,068
Total Cost Proposal			\$ 1,259,867

Inclusions

Refer to the attached Construction Management Services - Standard Clarification for Fee Proposal

Typical Per Meeting Cost Estimate	Labor	ODC	Total
Construction Manager - Brian Jensen	\$ 1,071.00	\$ 121.00	\$ 1,192.00
RE/ Lead Inspector - Sam Hawkins	\$ 856.80	\$ 121.00	\$ 977.80
Subtotal	\$ 1,927.80	\$ 242.00	\$ 2,169.80

Exclusions

Refer to the attached Construction Management Services - Standard Clarification for Fee Proposal



MWH Constructors

MARINA COAST WATER DISTRICT

REGIONAL

URBAN WATER AUGMENTATION PROJECT RECYCLED WATER PIPELINE AND BLACKHORSE RECYCLED WATER RESERVOIR

Cost Proposal - Hourly Rate Schedule

7/24/2017 Revised 08/14/17

Hourly Rate Schedule

Position	Name	2017 Hourly Rate	2018 Hourly Rate
Construction Manager	Brian Jensen	\$178.50	See Rates for CM Team notes
RE / Lead Inspector	Sam Hawkins	\$142.80	See Rates for CM Team notes
Field Inspector - Pipeline	Wade Weston	\$142.80	See Rates for CM Team notes

The individual hourly rates include salary, overhead, and profit.

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 Northrop Grumman. All costs are subject to negotiation. Upon award, MWHC would expect to assist with and be a part of drafting and negotiating the final Task Order to be signed by the parties for the Construction Management Services for the PVOU. In particular, based on the nature of the Construction Management Services proposed, MWHC would respectfully request certain terms and conditions be clarified within the Task Order. This would include, at a minimum, drafting negligence-based indemnification language and a limitation of liability based on the Task Order services, seeking to clarify timing of notices, and adding language relative to a mutual waiver of consequential damages.

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. **All Inspectors shall be paid the latest conforming wage with rate increase upon notice by the State of California.**

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 allowance for overtime has been included in labor costs as a line item. An annual escalation of 2.0 % was applied to 2017 & 2018 rates, and shall apply for the life of the contract.

Rates – Standard Exclusions:

Items excluded from the rates are: vehicle mileage, 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 with a 10% markup. Vehicle and mileage expenses are included in the hourly rate, unless shown as a line item in the Other Direct Costs - Basis of Reimbursable Costs Spreadsheet. Vehicle and mileage shall be billed at a flat hourly or monthly rate plus a 10% markup, if shown in the Fee Schedule or Other Direct Cost Schedule.

Invoicing and Payment:

All project related costs shall be compiled and submitted on a monthly basis, payable within net 45 days. Any disputed costs may be withheld with the remainder of all acceptable charges to be paid within the terms.

Subconsultant Terms & Conditions

All subconsultants will be bound to the final terms and conditions of the prime agreement.

Geotechnical Support, Material Sampling & Testing and Geotechnical Inspection:

Geotechnical support, materials sampling and testing services and geotechnical inspection are included in our standard scope of services as an ALLOWANCE Fee. This Allowance Fee shall be utilized on a Time and Material / As Needed Basis and shall be reimbursed based upon actual usage by the X projects. If no Allowance Fee is provided, these services are specifically NOT INCLUDED, however the coordination of these services is included in our scope of services.

Material Testing and Specialty Inspection:

Materials sampling, materials testing, specialty inspection and NDT services and fees are included in our standard scope of services as an ALLOWANCE FEE. This Allowance Fee shall be utilized on a Time and Material / As Needed Basis and shall be reimbursed based upon actual usage by the 1 projects. If no Allowance Fee is provided, these services are specifically NOT INCLUDED, however the coordination of these services is included in our scope of services.

Survey Baseline Control:

Survey services and fees are **NOT INCLUDED** in the scope of services. However the coordination of these services is included in our scope of services.

We have assumed a "Green book Class A" Field office in a field trailer complex shall be provided for each CM Team member by Others, the City or the construction contractor.

We will utilize the "Green book" standards in determining need of office size, furniture, fixtures and equipment. Also, refer to the "Rates - Standard Exclusions" section above which further defines field office requirements. Am Feild Offie Allowance has been estimated and included inthis Cost Proposal as a line item allowance to be adjusted to actual costs..

Project:
Estimate:

Version / Date:

RECYCLED WATER PIPELINE AND BLACKHORSE RECYCLED WATER RESERVOIR

Basis of Other Direct Costs

v0 4/2017 Revised 08/14



Billable			Labor			Equipment			Materials			Relocation			Extension	
Description	Unit	Qty / Duration	Cost Per Unit	Units	Subtotal Cost / Ea	Cost Per Unit	Units	Subtotal Cost / Ea	Cost Per Unit	Units	Subtotal Cost / Ea	Cost Per Unit	Units	Subtotal Cost / Ea		
Administration																\$ -
Project Vehicles & Mileage																\$ 25,480
Project Vehicles - CM	mo	13			-	910.00	1	910			-			-		\$ 11,830
Project Vehicles	mo				-			-			-			-		\$ -
Project Vehicles - RE / Lead Inspector	mo	11			-	910.00	1	910			-			-		\$ 10,010
Project Vehicles	mo				-			-			-			-		\$ -
Project Vehicles - Field Inspector: Pipeline	mo	4			-	910.00	1	910			-			-		\$ 3,640
Project Vehicles	mo				-			-			-			-		\$ -
Vehicles - Rental	mo				-			-			-			-		\$ -
Software & Network Systems																
Office, Office Equipment & Supplies																\$ 2,925
Office Supplies - Project Monthly: Paper, Pens, etc	Month	13			-			-	100.00	1	100			-		\$ 1,300
Field Office - Desk Set Allowance	each				-			-			-			-		\$ -
Field Office Equipment-misc.	Month	13			-	50.00	1	50			-			-		\$ 650
Postage and Fed-Ex	Month	13			-			-	75.00	1	75			-		\$ 975
Safety																\$ 4,300
Safety - Training - Refresher	each	2	400	1	400			-			-			-		\$ 800
Safety - PPE	each	2			-			-	500.00	1	500			-		\$ 1,000
Safety - Equipment	each	1			-	2,500.00	1	2,500			-			-		\$ 2,500
Travel & Relocation MWH																\$ 82,320
Outside Travel - CM	Trips	26	225	2	450			-			-			-		\$ 11,700
Outside Travel - RE / Lead Inspector	Trips	26	225	2	450			-			-			-		\$ 11,700
Outside Travel - Field Inspector: Pipeline	Trips	8	225	2	450			-			-			-		\$ 3,600
Per Diem - CM	Mo	13	147	20	2,940			-			-			-		\$ 38,220
Per Diem - RE / Lead Inspector	Mo	11	147	20	2,940			-			-			-		\$ 32,340
Per Diem - Field Inspector: Pipeline	Mo	4	147	20	2,940			-			-			-		\$ 11,760
Per Diem	each				-			-			-			-		\$ -
Per Diem	each				-			-			-			-		\$ -
Relocation	each				-			-			-			-		\$ -
Administrative Support																\$ 21,400
Legal Review-Subcontracts	each	2	175.00	4	700			-			-			-		\$ 1,400
Admin Assit & Support	mo	13	75.00	20	1,500			-			-			-		\$ 19,500
Business License	each	1			-			-			-	500.00	1	500		\$ 500
Total Raw ODC Cost																\$ 136,425

Mark Up +10% \$ 13,642.50
\$ 150,067.50

FEE SCHEDULE
Marina Coast Water District

REGIONAL URBAN WATER AUGMENTATION PROJECT
RECYCLED WATER PIPELINE AND BLACKHORSE RECYCLED WATER RESERVOIR



TASKS	Approximate Person Hours								Sub consultants & Vendors						Total Est Hours	MWH Labor Cost	Sub-contractor or Vendor Cost	Total Estimated Fee														
	Const Manager	Deputy Const Manager	Resident Engineer	Project Controls / Deputy RE	RE / Lead Inspector				Kleinfelder - Geotechnical & Materials Testing	Silveira - Labor Compliance Consulting	MCS Inspection Group - NACE Certified	Bentley - ProjectWise Construction Management	PIO Website Allowance - Cloud Software	Field Office Allowance: Rental & Utilities (14)																		
Rates:																	\$179															
Task A General Services (Pre-Construction Phase)																																
A.1	Mobilize Technical and Professional Personnel	8															8	\$ 1,428		\$ 1,428												
A.2	Review District Code/Engineering Procedures/Guidelines/Design Requirements	8				12											20	\$ 3,142		\$ 3,142												
A.3	Review Project/Coordinate w/ Project Team.....Pre-Construction Review of Construct	8				40											48	\$ 7,140		\$ 7,140												
A.4a	Provide Outreach; Notify/Coordinate/Meet w/ Agencies/Businesses	16															16	\$ 2,856		\$ 2,856												
A.4b	Provide Outreach Website; Notify/Coordinate/Meet w Consultants	40															40	\$ 7,140		\$ 7,140												
A.5	Construction Management Plan	40															40	\$ 7,140		\$ 7,140												
A.6a	Mobilize/Field Work... CM/Inspection Office	8															8	\$ 1,428		\$ 1,428												
A.6b	Mobilize/Field Work: CM/Inspection Office Set Up Allowance	40															40	\$ 7,140		\$ 7,140												
A.7	Safety Equipment (special testing and inspection)	8															8	\$ 1,428		\$ 1,428												
A.8	Safety Training // Site Specific Safety Plan	8				16											24	\$ 3,713		\$ 3,713												
A.9	Pre-Construction Conference / Construction Progress Meetings	8				8											16	\$ 2,570		\$ 2,570												
	Preliminary schedules: Progress, values, submittals	8				8											16	\$ 2,570		\$ 2,570												
	Progress Meetings (every other week)	90															90	\$ 16,065		\$ 16,065												
																	0	\$ -		\$ -												
Subtotal Task A Amount:		290	0	0	0	84	0	0	0	0	0	0	0	0	0	0	374	\$ 63,760.20	\$ -	\$ 63,760.20												
Task B Typical Construction Inspection Activities																																
B.1	Inspection Plan	40				40											80	\$ 12,852		\$ 12,852												
B.2a	Inspection - Full Time RE/Inspector	40				1720											1760	\$ 252,756		\$ 252,756												
B.2a	Inspection - Full Time RE/Inspector: Overtime Allowance (2 hr/day for 6 mos.)					240											240	\$ 51,408		\$ 51,408												
B.2b	Inspection - Part Time Inspector - 4 mos allowance for 2nd heading					672											672	\$ 95,962		\$ 95,962												
B.2b	Inspection - Part Time Inspector: Overtime Allowance (2hr/day for 4 mos.)					160											160	\$ 34,272		\$ 34,272												
B.3	Materials Testing	20															20	\$ 3,570		\$ 3,570												
B.4	Special Inspection and Structural Observation	16															16	\$ 2,856		\$ 2,856												
B.5	SWPPP BMP Monitoring (Daily Monitoring report evry other week)	40															40	\$ 7,140		\$ 7,140												
																	0	\$ -		\$ -												
Subtotal Task B Amount:		156	0	0	0	2832	0	0	0	0	0	0	0	0	0	0	2988	\$ 460,815.60	\$ -	\$ 460,815.60												
Task C Document Control																																
C.1	Document Control - Set up EADOC	20															20	\$ 3,570		\$ 3,570												
C.2	Document Processing - Correspondence , submittals, RFIs	160															160	\$ 28,560		\$ 28,560												
	Process Contractor Submittals / Shop Drawing Coordination & Log (60x2 ea)	120															120	\$ 21,420		\$ 21,420												
	Process Requests for Information (RFIs) (100 ea.)	16															16	\$ 2,856		\$ 2,856												
	Prepare Field Instructions (FIs) (10 ea.)	4															4	\$ 714		\$ 714												
	Review Contractor's Monthly Progress Payment Application (12 ea)	24															24	\$ 4,284		\$ 4,284												
	Management of Contract Change Orders (10 ea) and PCO's (20 ea)	24															24	\$ 4,284		\$ 4,284												
	Review Contractor's Schedule Updates (12) / Three Week Look-Ahead (30)	8															8	\$ 1,428		\$ 1,428												
	Claims Mitigation Assistance	24															24	\$ 4,284		\$ 4,284												
	Materials Sampling and Testing	20															20	\$ 3,570		\$ 3,570												
	Special Inspection and Structural Observation																0	\$ -		\$ -												
	Federal & California Labor Compliance Monitoring	16															16	\$ 2,856		\$ 2,856												
	Commissioning & Start-up Workshop	20															20	\$ 3,570		\$ 3,570												
	Start Up /Testing / Operator Training Coordination	20															20	\$ 3,570		\$ 3,570												
Subtotal Task C Amount:		476	0	0	0	0	0	0	0	0	0	0	0	0	0	0	476	\$ 84,966	\$ -	\$ 84,966												

FEE SCHEDULE

Marina Coast Water District

REGIONAL URBAN WATER AUGMENTATION PROJECT
 RECYCLED WATER PIPELINE AND BLACKHORSE RECYCLED WATER RESERVOIR



TASKS	Approximate Person Hours								Sub consultants & Vendors						Total Est Hours	MWH Labor Cost	Sub-contractor or Vendor Cost	Total Estimated Fee	
	Const Manager	Deputy Const Manager	Resident Engineer	Project Controls / Deputy RE	RE / Lead Inspector				Kleinfelder - Geotechnical & Materials Testing	Silveira - Labor Compliance Consulting	MCS Inspection Group - NACE Certified	Bentley - ProjectWise Construction Management	PIO Website Allowance - Cloud Software	Field Office Allowance: Rental & Utilities (14)					
Rates:	\$179				\$143				1	1	1	1	1	1					
Task D Typical Construction Contract Administration																			
D.1 Process Contractor Submittals / Shop Drawing Submittal Coordination & Log	220															220	\$ 39,270	\$ 39,270	
P/R Traffic Control Plan	24															24	\$ 4,284	\$ 4,284	
P/R-Bore/Receiver Pit	8															8	\$ 1,428	\$ 1,428	
P/R Pipe Materials	16															16	\$ 2,856	\$ 2,856	
P/R Excavation Plan	8															8	\$ 1,428	\$ 1,428	
P/R-Permits: Encroachment, Fort Ord, UCMB, OSHA	40															40	\$ 7,140	\$ 7,140	
P/R Material - Submittals	40															40	\$ 7,140	\$ 7,140	
P/R Excavation/Shore	16															16	\$ 2,856	\$ 2,856	
P/R Coordinate Commissioning/Start-up	80															80	\$ 14,280	\$ 14,280	
Commissioning & Start-up Workshop	16															16	\$ 2,856	\$ 2,856	
Start Up /Testing / Operator Training Coordination	16															16	\$ 2,856	\$ 2,856	
O&M Manuals / Warranty / Spare Parts Coordination	16															16	\$ 2,856	\$ 2,856	
D.1a Process Requests for Information (RFIs) 5(0 ea.)	50															50	\$ 8,925	\$ 8,925	
D.1b Prepare Field Instructions (FIs) 4 ea.)	16															16	\$ 2,856	\$ 2,856	
D.1c Review Contractor's Monthly Progress Payment Application (12 ea)	48															48	\$ 8,568	\$ 8,568	
D.1d Conflict Resolution/Contract Change Orders	160															160	\$ 28,560	\$ 28,560	
Management of Contract Change Orders (10 ea) and PCO's (20 ea)	160															160	\$ 28,560	\$ 28,560	
Claims Mitigation Assistance	80															80	\$ 14,280	\$ 14,280	
D.1e Schedule Review																0	\$ -	\$ -	
P/Preliminary Construction Schedule (90 day)	24															24	\$ 4,284	\$ 4,284	
P/R Baseline Schedule	40															40	\$ 7,140	\$ 7,140	
Review Contractor's Schedule Updates (12) / Three Week Look-Ahead (30)	120															120	\$ 21,420	\$ 21,420	
D.1f Project Closeout																0	\$ -	\$ -	
As- Builts / Record Drawing Coordination	24															24	\$ 4,284	\$ 4,284	
Punch list / Final Progress Payment	24															24	\$ 4,284	\$ 4,284	
Final Report & Construction File	40															40	\$ 7,140	\$ 7,140	
D.1g Federal & California Labor Compliance Monitoring	40															40	\$ 7,140	\$ 7,140	
Subtotal Task D Amount:	1326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1326	\$ 236,691	\$ -	\$ 236,691
Task A-D Labor Subtotal	2248	0	0	0	2916	0	0	0	0							5164	\$ 846,233	\$ -	\$ 846,233
Sub-Consultants and Vendors																			
4.1 Kleinfelder - Geotechnical & Materials Testing Services										\$ 31,000								31,000	\$ 31,000
4.2 Kleinfelder - CWI Specialty Inspection Services										\$ 39,494								39,494	\$ 39,494
4.3 Silveira - Labor Compliance Consulting											\$ 36,500							36,500	\$ 36,500
4.3 MCS Inspection Group - NACE Certified Coating Inspection Services												\$ 45,612						45,612	\$ 45,612
4.4 Bentley - ProjectWise Construction Management Software (formally EaDOC)													\$ 28,000					28,000	\$ 28,000
4.5 PIO Website Allowance - Cloud Software														\$ 20,000				20,000	\$ 20,000
4.6 Field Office Allowance: Rental & Utilities (14 mo @ 2,500/mo.) & Used Furniture															\$ 39,000			39,000	\$ 39,000
Subtotal										\$ 70,494	\$ 36,500	\$ 45,612	\$ 28,000	\$ 20,000	\$ 39,000			239,606	\$ 239,606
10% Markup										\$ 7,049	\$ 3,650	\$ 4,561	\$ 2,800	\$ 2,000	\$ 3,900			\$ 23,961	\$ 23,961
Subtotal Task E Amount:										\$ 77,543	\$ 40,150	\$ 50,173	\$ 30,800	\$ 22,000	\$ 42,900			\$ 263,567	\$ 263,567
TOTAL NOT TO EXCEED AMOUNT	\$ 2,092	0	0	0	84	0	0	0	0	\$ 77,543	\$ 40,150	\$ 50,173	\$ 30,800	\$ 22,000	\$ 42,900		\$ 846,233	\$ 263,567	\$ 1,109,799
Notes:																			
1. Fee Schedule dated July 24, 2017, Revised 08/14/17. Proposal is valid for 90 days.																			
ODC's: \$ 150,068																			
Total: \$ 1,259,867																			

**MRWPCA - AWPf Project
CM Staff Level of Effort**

AWPF			2017							2018									2017		2018		Totals				
			24-Jul-17	NTP	PRE-CON	CONSTRUCTION									CLOSEOUT			Days		Days		Days					
Months		24-Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Hours	Cost	Hours	Cost	Hours	Cost		
Cal days		8	30	14	31	30	31	31	28	31	30	31	30	31	31	30	15			144		15		159			
Workdays		6	23	10	21	20	20	21	19	22	21	22	21	21	23	19	11			100		200		300			
Work Hrs		48	184	80	168	160	160	168	152	176	168	176	168	168	184	152	88			1232		1600		2832			
Name	Title	Rate																Hours	Cost	Hours	Cost						
Jensen, Brian	Construction Manager	\$179			160	168	160	160	168	152	176	168	176	168	168	184	152	88			648	\$ 115,668	1600	\$ 285,600	2248	\$ 401,268	
Hawkins, Sam	RE / Lead Inspector	\$143					160	160	160	152	176	168	168	168	168	152	44			320	\$ 45,696	1524	\$ 217,627	1844	\$ 263,323		
Hawkins, Sam OT	RE / Lead Inspector	\$214									40	40	40	40	40	40				0	\$ -	240	\$ 51,408	240	\$ 51,408		
Weston, Wade	Field Inspector - Pipeline	\$143										168	168	168	168					0	\$ -	672	\$ 95,962	672	\$ 95,962		
Weston, Wade OT	Field Inspector - Pipeline	\$214										40	40	40	40					0	\$ -	160	\$ 34,272	160	\$ 34,272		
																				0	\$ -	0	\$ -	0	\$ -		
																				968	\$ 161,364	4196	\$ 684,869	5164	\$ 846,233		

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