



TASK AUTHORIZATION



Sludge Thickener Project - Change Order 1

Date: June 15, 2022

Activity Classification (Check applicable)

Administration	<input type="checkbox"/>
Engineering	<input type="checkbox"/>
Planning	<input type="checkbox"/>
Design	<input checked="" type="checkbox"/>
Construction	<input type="checkbox"/>
Construction	<input type="checkbox"/>
Sanitary Sewer	<input type="checkbox"/>
Storm Sewer	<input type="checkbox"/>
Sanitary P.S.	<input type="checkbox"/>
Storm P.S.	<input type="checkbox"/>
Wastewater	<input checked="" type="checkbox"/>
Other (specify below)	<input type="checkbox"/>

VVNA Project #: RE.1416

Proposed by: Chandrasakar Venkatraman, Veolia Water West Oper. Services

Reviewed by: Mike Greene, Veolia Water West Oper. Services (Interim GM)

Reviewed by: Mary Phelps, Authorized City Dept. Rep. (PO verification)

Reviewed by: 40322931-400708-01M10
City of Richmond, Finance Department

Approved by: Joe Leach
City of Richmond, Public Works Director

Approval Date: 06/21/2022

Current funding limit (City Resolution 72-21) \$670,269.14

Previously Authorized Amount: \$523,367

Original Project Cost Approved:	\$ 523,367
Previously Submitted Change Requests	\$ -
Change Order Request #1	\$ 147,213
Approved 9% CO Markup/Margin	\$ 13,249
Total Authorized Amt.:	\$ 683,829

Scope of Services

The City of Richmond has historically utilized a dissolved air flotation thickener (DAFT) to thicken waste activated sludge (WAS) generated by the secondary treatment process prior to digestion and further treatment at the Wastewater Treatment Plant (WWTP). The purpose of the Richmond WWTP Sludge Thickener Project is to remove and replace the aging and unreliable DAFT with efficient, reliable sludge thickener facilities compatible with the WWTP's current and future treatment processes. The City and Veolia decided to bid the project as a design/build project with the plan that the selected design build entity (DBE) would be responsible for the design, construction, testing, and start-up of the new thickener facilities. Phase I is the design portion and Phase II is the construction.

During the current design Phase I, it was discovered that a WAS buffer tank is needed for the Sludge Thickener Project. The reason is that, with the Critical Improvements Project, the Plant is changing the aeration technology in the aeration basins. In order to accommodate the operation of the new technology and to ensure operational flexibility and consistent performance of the new thickener systems, the buffer tank was needed. Additionally, due to construction constraints, including presence of shallow bedrock and conflicts with existing utilities, the project site has been moved (after the 50% design submittal was submitted) from the initial DAFT 2 area to the Center Island. Therefore, the Basis of Design Report must be updated and the 50% design submittal modified to reflect the design suitable for the new site. Specific tasks include:

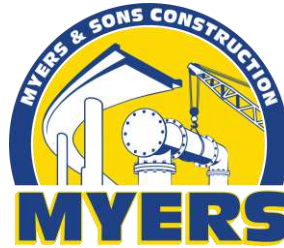
- Review of as-built drawings for the new site
- Develop potholing map (done by Contractor, Myers & Sons)
- Determination of appropriate footprint for the Rotary Drum Thickeners (RDT) and WAS buffer tank
- Work with stakeholders to determine the appropriate size of the WAS buffer tank
- Update the Draft Basis of Design Report
- Coordinate with subconsultants (i.e., air permit, geotechnical and surveying)
- Provide modified 50% Design Submittal
- Conduct 50% Design Submittal Review

The estimated cost for this changed design condition is \$147,213.19. See attached. Additionally, a schedule extension is requested for 42 days in order to accomplish this work. This change order request has been reviewed by Veolia for both cost and schedule impacts and determined to be reasonable and necessary. Therefore, this Task Authorization amount requested is \$160,462.38, which includes Veolia 9% change order markup, for a total authorization amount not to exceed \$683,829.

Sludge Thickener, Phase I		SUBTOTAL	16.50%	9.00%	TOTAL
			Veolia Markup	Change Order	
Contractor	449,242	449,242	74,125		523,367
Previous Change Orders	-	-			-
Change Order 1	147,213	147,213		13,249	160,462
TOTAL	596,455	-	596,455	74,125	683,829

Attachments

Exhibit 1 - Change Order 1 request from Myers & Sons (subconsultants Lee & Ro)



Myers & Sons Construction, LLC
45 Morrison Ave
Sacramento, CA 95838

May 03, 2022

Veolia Water North America
Attn: Chandrasekar Venkatraman (CV)
601 Canal Blvd
Richmond, CA, 94804
Via: Email

Re: 2022.05.03 – Letter 002 – L+R – Change Order Request for Buffer Tank Relocation

Dear Mr. Venkatraman,

See enclosed change order request that was discussed for the relocation of the WAS Buffer Tank to the “center island” from Lee+Ro to complete a modified 50% design deliverable. Myers would provide and lead the on-site Potholing activities with direction from L+R.

Exclusions:

1. Relocation of large stockpile that has been generated by Shimmick Construction from the Critical Improvements project and is the current suggested relocation for the WAS Buffer Tank and subsequent RDT Facility. This stockpile needs to be moved before potholing and geotechnical activities can start.
2. VFA analysis for the WAS Buffer Tank. There would need to be an additional scope clarification if VFA analysis is to become part of this contract.

Impacts associated with this Change Order Request to complete a modified 50% design:

- Cost: **\$147,213.19**
- Schedule Extension: **42-days**

This change order request will need to be executed in order to complete the 50% design Deliverable with a WAS Buffer Tank. At this time, it's Myers and L+R understanding that the contract schedule has been suspended since 2/18/22.

If you have any follow-up questions, it will be best we set-up a conference call with Lee+Ro and Myers and Sons Construction.

Regards,
Myers and Sons Construction, LLC

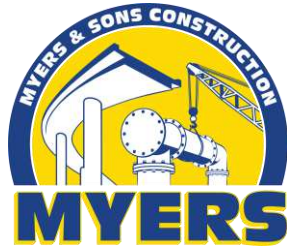
A handwritten signature in blue ink that reads 'Robert Barton'. The signature is fluid and cursive.

Robert Barton
Project Manager



List of Attachments:

1. RFC 001 Cost Summary & EWRs
2. 2022.05.03 – Lee+ Ro Change Order Request – WAS Buffer Tank Relocation to Center Island
3. 2022.05.02 – Final VFA Scope Clarification Letter
4. Potholing Quote



Attachment 1



EXTRA WORK REPORT

Project Title: 0313 Richmond Sludge Thickeners Design-Build
 Job No.: 0313

RFC Number 001
 Report No. See below
 Date Performed: TBD
 Date of Report 5/16/22

DESCRIPTION OF WORK

RFC 001 - Additional Services to provide modified 50% Design for Sludge Thickener Design-Build.

SUMMARY

Date	Option	Labor	Equipment	Materials	Subs	TOTAL incl Bond
Potholing Activities	1	\$ 8,054.51	\$ -	\$ -	\$ 10,272.15	\$ 18,693.19
Geotechnical Field Investigation **	2	\$ -	\$ -	\$ -	\$ 126,000.00	\$ 128,520.00
	3	\$ -	\$ -	\$ -	\$ -	\$ -
	4	\$ -	\$ -	\$ -	\$ -	\$ -
	5	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotals						\$ 147,213.19

MYERS & SONS REPRESENTATIVE

**** Geotechnical Field Investigation** includes other subcontractors such as BAAQMD permitting, Questa geotechnical and Towill topo work. (see separate backup documentation included herein).



EXTRA WORK REPORT

Project Title: 0313 Richmond Sludge Thickeners Design-Build
 Job No.: 0313

RFC Number 001
 Report No. 1.0
 Date Performed: TBD
 Date of Report 5/3/22

DESCRIPTION OF WORK

Proposed not-to-exceed T&M Budget Potholing. This budget excludes moving the existing stockpile from the Critical Improvements project.

SUMMARY OF LABOR

TRADE	QUANTITY	Hours				RATE			TOTAL
		REG	OT	DBL	TOT	REG	OT	DBL	
General Foreman	1	24			24	\$ 109.18			\$ 2,620.32
Operator	1	24			24	\$ 104.00			\$ 2,496.00
Laborer	1	24			24	\$ 78.65			\$ 1,887.60
					0				\$ -
					0				\$ -
SUBTOTAL:									\$ 7,003.92
MARKUP: 15%									\$ 1,050.59
LABOR TOTAL:									\$ 8,054.51

SUMMARY OF EQUIPMENT

MAKE/MODEL	QUANTITY	HOURS	RATE	TOTAL
				\$ -
				\$ -
SUBTOTAL:				\$ -
MARKUP: 15%				\$ -
EQUIPMENT TOTAL:				\$ -

SUMMARY OF MATERIALS

DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
				\$ -
				\$ -
Sales Tax - Included	9.75%	LS	\$ -	\$ -
SUBTOTAL:				\$ -
MARKUP: 15%				\$ -
MATERIAL TOTAL:				\$ -

SUMMARY SPECIALTY FORCES

DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
Potholing Activitites	24	HR	\$ 245.00	\$ 5,880.00
Potholing Activitites - Travel Time	12	HR	\$ 294.00	\$ 3,528.00
PPE/COVID	3	EA	\$ 50.00	\$ 150.00
Water	3	EA	\$ 75.00	\$ 225.00
				\$ -
				\$ -
SUBTOTAL:				\$ 9,783.00
MARKUP: 5.0%				\$ 489.15
SPECIALTY FORCES TOTAL:				\$ 10,272.15
TOTAL SUBTOTAL:				\$ 18,326.66
BOND 2%				\$ 366.53
TOTAL OF THIS REPORT:				\$ 18,693.19

M. J. Barton

MYERS & SONS REPRESENTATIVE



EXTRA WORK REPORT

Project Title: 0313 Richmond Sludge Thickeners Design-Build
 Job No.: 0313

RFC Number 001
 Report No. 2.0
 Date Performed: TBD
 Date of Report 5/3/22

DESCRIPTION OF WORK

L&R's Additional Design Services for modified 50% design.

SUMMARY OF LABOR

TRADE	QUANTITY	Hours				RATE			TOTAL
		REG	OT	DBL	TOT	REG	OT	DBL	
					0				\$ -
					0				\$ -
					0				\$ -
					0				\$ -
					0				\$ -
SUBTOTAL:									\$ -
MARKUP: 15%									\$ -
LABOR TOTAL:									\$ -

SUMMARY OF EQUIPMENT

MAKE/MODEL	QUANTITY	HOURS	RATE	TOTAL
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
SUBTOTAL:				\$ -
MARKUP: 15%				\$ -
EQUIPMENT TOTAL:				\$ -

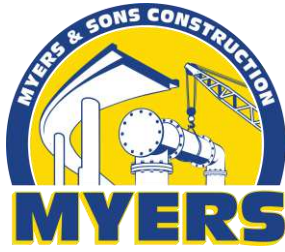
SUMMARY OF MATERIALS

DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
				\$ -
				\$ -
				\$ -
				\$ -
Sales Tax,	9.75%	LS	\$ -	\$ -
SUBTOTAL:				\$ -
MARKUP: 15%				\$ -
MATERIAL TOTAL:				\$ -

SUMMARY SPECIALTY FORCES

DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
L+R	1	LS	\$120,000.00	\$ 120,000.00
				\$ -
				\$ -
SUBTOTAL:				\$ 120,000.00
MARKUP: 5.0%				\$ 6,000.00
SPECIALTY FORCES TOTAL:				\$ 126,000.00
TOTAL SUBTOTAL				\$ 126,000.00
BOND 2%				\$ 2,520.00
TOTAL OF THIS REPORT:				\$ 128,520.00

 MYERS & SONS REPRESENTATIVE



Attachment 2

May 2, 2022

Robert Barton, Project Manager
Myers and Sons Construction
45 Morrison Ave
Sacramento, CA 95838

RE: ***Change Order Request for Project Relocating to Center Island
Sludge Thickener Project, City of Richmond, California***

677

Dear Mr. Barton:

LEE+RO would like to submit this Change Order Request (COR) for the referenced project. The basis for the COR is City's request for the Project Site relocation during the design submittal process.

The project site has moved from DAF No. 2 site to the Center Island after the 50% Design Submittal was submitted. Anticipating different site conditions at the new site, the Draft Basis of Design Report must be updated and the 50% Design Submittal modified to reflect the design suitable for the new site. Specifically, key tasks included in the COR are:

- Review of as-built drawings for the New Site
- Develop potholing map (potholing by Myers and Sons)
- Determination of appropriate footprint for the RDTs and WAS buffer tank
- Work with stakeholders to determine the appropriate size of the WAS buffer tank, if not 24-hour storage volume
- Update the Draft Basis of Design Report
- Coordinate with subconsultants (Air Permit, Geotechnical, and Surveying)
- Provide modified 50% Design Submittal
- Conduct 50% Design Submittal Review

The estimated cost for the COR is approximately \$120,000 including subconsultants' fee of approximately \$47,000.

LEE+RO requests that 42 calendar days be allowed from the date of the COR approval in order to complete the COR tasks and deliver the modified 50% Design Submittal.

Sincerely,



Tony Park, PE
Vice President

LEE+RO																									
SCHEDULE OF VALUES FOR CHANGE ORDER #1																									
RDT RELOCATION TO CENTER ISLAND																									
CITY OF RICHMOND																									
WWTP SLUDGE THICKENER PROJECT																									
DESIGN PERIOD ENGINEERING SERVICES																									
Task	Task Description	PIC		PM		Structural		Mechanical		Electrical		Civil		TA/QA&QC		CAD		WP		LEE & RO Hours	LEE & RO Cost	Subconsultants Cost			Total Cost
		E8	\$273	E7	\$246	E6	\$229	E6	\$229	E6	\$229	E4	\$190	E2	\$152	E7	\$246	T4	\$152			A2	\$118	BAAQMD	
1	Review of as-built drawings in the Center Island area.				2							8								10	\$2,012				\$2,012
2	Provide Potholing map. Potholing by Myers			1							2									5	\$930				\$930
3	Determination of appropriate footprint for the RDTs/Buffer Tank.			2		2	2	2			4									14	\$2,776				\$2,776
4	Work with the stakeholders to determine the appropriate size of the buffer tank after Carollo's VFA production modelling. Optimize the dimensions of the buffer tank so that the top of the buffer tank is efficiently used for the RDTs and its accessory components installation and maintenance.			4		8	8	2			8	4								30	\$6,010				\$6,010
5	Discuss with the City the approach for the continued use of the existing DAF unit during construction. As appropriate, show the use of the existing DAF in the conceptual design.			2							4									7	\$1,404				\$1,404
6	Provide 50% design submittal for the relocated thickener system including re-routing of the WAS supply lines, power and communications conduits, thickened sludge piping, filtrate piping, water supply piping and any other utilities. Depending on the City's operational desires for the buffer tank, including VFA production goals, design appropriate tank mixing system. Coordinate any air-permitting impacts with the air permitting consultant. Re-size the Odor control unit. Resize pumps due to new location.	4		16		32	32	32	32	32	32	20	16	67	10	261					\$51,432				\$51,432
7	Revise Basis of Design Report			4							8	24	16							6	\$10,516				\$10,516
8	Subconsultants			4							20	10								40	\$7,888	\$15,000	\$10,000	\$12,000	\$44,888
Tasks 1 - 8 Totals		8		37		42	36	40	50	78	16	50	16	78	16	367			\$82,968	\$15,000	\$10,000	\$12,000	\$119,968		

(see following page for details)



Mackay, Morgan <morgan.mackay@veolia.com>

Fwd: 2022.05.03 – Letter 002 – MSC – COR 001 - Change Buffer Tank Location

1 message

Vignau Loria, Rodrigo Belisario <rodrigo-belisario.vignau@veolia.com>
To: Morgan Mackay <morgan.mackay@veolia.com>

Mon, Jun 20, 2022 at 2:27 PM

FYI

----- Forwarded message -----

From: **Robert Barton** <rbarton@myers-sons.com>

Date: Wed, Jun 15, 2022 at 2:12 PM

Subject: RE: 2022.05.03 – Letter 002 – MSC – COR 001 - Change Buffer Tank Location

To: Chandrasekar Venkatraman (chandrasekar.venkatraman@veolia.com) <chandrasekar.venkatraman@veolia.com>Cc: Scott Wolfenberger <swolfenberger@myers-sons.com>, Tony Park <Tony.Park@lee-ro.com>, Jay Jung <Jay.Jung@lee-ro.com>

CV,

See below breakdowns for L+Rs Sub-consultants for the breakdown that was provided on 5/23/22 (attached again as a reference for this follow-up).

- BAAQMD is \$15k based on BAAQMD actually needing 64 hours instead of the 16 hours mentioned in the attached email. L+R was concerned that additional time would be needed considering all of the additional equipment that will be added in order to utilize the buffer tank.
- Survey/Topo is \$12k based on Towill's estimate of \$11,500.00
- Geotech is \$10k based on Questa's estimate of \$8,500.00

Please keep in mind that L+R and Myers worked under the premise of “time is of the essence” to best move efficiently forward for the City of Richmond.

Thanks,

Robert Barton

Project Manager

Cell#: 209-681-5353

rbarton@myers-sons.com**Effective 1/1/2022, our office address will change:****45 Morrison Ave****Sacramento, CA 95838****Our phone number and fax number will remain the same.**

From: Aneal Shah
Sent: Thursday, April 14, 2022 4:37 PM
To: Courtney Mizutani
Cc: Boyana Angelova; Grace McNamee
Subject: RE: Richmond Thickener project - relocation to Center Island

Thank you Courtney for estimating additional budget for the change, this helps.

I just checked, your February invoice was passed onto the client on March 3rd.



Aneal Shah, PE
Supervising Engineer

Celebrating 40 years as partners in possibility.

Bay Area
1550 Parkside Drive, Suite 320
Walnut Creek, CA 94596

T [925-627-3397](tel:925-627-3397)
M [707-217-6558](tel:707-217-6558)

[website](#) · [map](#)

From: Courtney Mizutani <cmizutani@sbcglobal.net>
Sent: Thursday, April 14, 2022 4:27 PM
To: Aneal Shah <Aneal.Shah@lee-ro.com>
Cc: Boyana Angelova <Boyana.Angelova@lee-ro.com>; Grace McNamee <Grace.McNamee@lee-ro.com>
Subject: Re: Richmond Thickener project - relocation to Center Island

Hi Aneal,

Yes, I have submitted a project invoice. It was sent to you and Lee+Ro Accounting on February 23, 2022 and I received an acknowledgement of receipt from Denise Morales that same day. I had assumed that Lee+Ro would have included it in the next client invoice. I have billed 23% of the contracted hours (\$4675.00). I have not received payment as of today. I understand from Irene Herbst that Lee+Ro is catching up on invoicing.

I understood that the design was on-hold pending some decisions by the client. I was not aware of what those changes might be (location, how extensive, etc). The buffer tank itself was not included in my original estimate, but since it has an exhaust stack and will emit pollutants as the

tank is filled, it should be included in the permit. I am not familiar with the location of Center Island.

My proposal to prepare the permit documents was based on receiving final information for the facilities to be permitted. So far, an additional facility (the buffer tank) and a new location (Center Island) have been proposed. Changes in the project design impact my portion of the project and require rework and additional work. Assuming no more significant changes are made to the project, I think an additional 16 hours should be sufficient to prepare the application (\$3520) with the revised location, and to include the additional source. I will also need some reworking of the location drawings (that Boyanna has been doing) to reflect the revised location. ***see below

As always, if I don't need the additional budget, I won't use it. But I believe it is better to anticipate the potential impact and later come in below budget rather than have to come back to the client and ask for more money. No one ever gets upset when I come in under budget.

Let me know if you need additional information,

Courtney

On Thursday, April 14, 2022, 02:27:51 PM PDT, Aneal Shah <aneal.shah@lee-ro.com> wrote:

Hi Courtney,

As you may know, the location of the thickener and the associated buffer tank is being moved within the confines of the WWTP, to a new a location called Center Island. Could you please tell us what impact, if any, this may have on your scope and fees? I may have missed this – did you submit an invoice? What are your charges to date?

I need to convey to the Client any impacts to your work by tomorrow so your prompt response would be appreciated.

Thanks,

Aneal

*** $\$3,520/16 = \$220/\text{hr.}$ per original quote. It is anticipated to take 64 hours instead of 16. Therefore, $64 \times \$220 = \$14,080$ - rounded to \$15k (see above email)

From: John May <john.may@towill.com>
Sent: Thursday, April 14, 2022 8:11 PM
To: Boyana Angelova <Boyana.Angelova@lee-ro.com>
Subject: RE: Richmond WWTP Sludge thickener design

Boyana,

That looks to be about two days of work. Will we need utility locating as well? I could get a quote from SiteScan.

Survey Only: \$11,500 (\$5750 per day).

[Based on this estimate, the designer has rounded this up to \$12k, which is what is presented in this TA.]

Thanks,



John T. May | Project Manager
Towill, Inc. | Surveying, Mapping, LiDAR, Geospatial Solutions
2300 Clayton Rd, Ste 1200
Concord, CA 94520-2176
T | 925-682-6976, Ext. 1032 C | 510.857.7143
<http://www.towill.com>

Sounds good, thank you so much for your quick response! We are currently drafting up a change order proposal for the client and will include your fee in our cost estimate. I will let you know once we have the green light to move forward with the geotechnical scope.

Thank you,



Boyana Angelova, PE, QSD/QSP
Civil Engineer

Celebrating 40 years as partners in possibility.

San Diego
10640 Scripps Ranch Blvd.
San Diego, CA 92131

T [\(858\) 332-4285](tel:8583324285)

[website](#) · [map](#)

From: Will Hopkins <WHopkins@questaec.com>
Sent: Thursday, April 14, 2022 4:30 PM
To: Boyana Angelova <Boyana.Angelova@lee-ro.com>
Subject: RE: [EXTERNAL] Geotech Letter report- Richmond WWTP-Sludge Thickener

Hi Boyana:

I don't think we need to drill the site, but we should do some test pits to verify the depth to bedrock, which should be shallow, within 5 feet (unless there is a deep back fill). I have some photos from last August after demolition (see attached), but nothing to tell me how deep they had to go during the demolition. We also do not have any data on the soil preparation and compaction, although Shimick did do some compaction of soil in the area with a Sheepsfoot

roller. If we do some test pits, we could test compaction of the fill at various depths and determine a bearing capacity based on those results. I am assuming that the client could provide an Excavator or Backhoe to dig test pits. This would take about 6 hours. So it would be a Geotechnical Exploration and Report.

Scope of Work

Field Investigation to evaluate soils (Engineer and Field Tech)
(Backhoe provided by others)

Laboratory soils testing
Prepare logs of test pits
Engineering Analysis
Report Preparation
Consultations with SE and Plan Review

Cost

Estimated cost \$8,500 Time and Expense basis. Backhoe to be provided by client.

[Based on this estimate, the designer has rounded this up to \$10k, which is what is presented in this TA.]

Let me know if you have any questions,

Will Hopkins
Questa Engineering
(510)236-6114, ext. 222

From: Boyana Angelova [<mailto:Boyana.Angelova@lee-ro.com>]
Sent: Thursday, April 14, 2022 3:42 PM
To: Will Hopkins
Subject: RE: [EXTERNAL] Geotech Letter report- Richmond WWTP-Sludge Thickener

Hi Will,

I'm reaching out regarding Richmond WWTP's Sludge Thickener project. The client wants to move forward with locating the sludge thickening facility (RDT units) in the Center island as shown in the attached sketch. The existing DAFT #2 tank will be repurposed as a sludge storage tank instead of building an UG or partially UG tank (as I have previously mentioned). This approach would help us reduce/eliminate bedrock issues that we could encounter in the DAFT area and also avoid constructing close to the 60" effluent pipe which is also in the general area of the existing DAFT #2.

Do you think we will need a geotechnical exploration plus report or will it be just a report based on previous work done by Questa in the surrounding areas? My feeling is that area needs to be explored. Please let me know your thoughts. Also, I need to convey to the Client any fee impact by tomorrow so your prompt response would be appreciated. I don't need a formal proposal, just a fee based on your recommendation (either geotechnical exploration plus report or just a report based on previous work).

Thank you,



Boyana Angelova, PE, QSD/QSP
Civil Engineer

Celebrating 40 years as partners in possibility.
San Diego
10640 Scripps Ranch Blvd.



Attachment 3

April 29, 2022

Robert Barton, Project Manager
Myers and Sons Construction
45 Morrison Ave
Sacramento, CA 95838

RE: ***Request for Clarification - VFA Production in WAS Buffer Tank
Sludge Thickener Project, City of Richmond, California***

677

Dear Mr. Barton:

It is our understanding that a WAS buffer tank is being considered for the Sludge Thickener Project. Although not required for continuous operation, hence not included in the response to the RFP, a WAS buffer tank would provide certain benefits to the thickener operation. LEE+RO did not include the WAS buffer tank to the Project because it would substantially increase the Project design and construction costs.

In the past several weeks, the proposed WAS buffer tank has been evaluated for Volatile Fatty Acids (VFA) production for the purpose of biological phosphorus removal. The WAS buffer tank may promote VFA production under proper conditions including the hydraulic retention time (HRT), temperature, pH and appropriate mechanical mixing of tank contents. In addition, additional design efforts will require process modeling for the entire treatment system under various operating scenarios in order to develop the design criteria - including tank HRT, mixing requirements, operating conditions including temperature and pH, tank emissions and any chemical dosing requirements. The design team at LEE+RO does not believe the effort required is fully accounted for by requiring the buffer tank to be coordinated with the SRT Implementation per addendum 2 of the RFP.

To summarize our response to RFP, LEE+RO is to provide two rotating drum thickeners to replace the existing Dissolved Air Flootation (DAF) unit. The design team at LEE+RO does not believe we are scoped to provide VFA production goals. Please advise if a contract amendment to adjust the scope to include VFA and subsequent budget is forthcoming.

Sincerely,



Tony Park, PE
Vice President



Attachment 4



6940 Tremont Road
 Dixon, CA 95620
 209-872-8560
 "An equal opportunity employer"

ESTIMATE	
DATE:	1/11/2022
REFERENCE #:	
PREPARED BY:	Everett Jackson
APPROVED BY:	

Company:	Myers-Sons Construction	Phone (o)		Phone (m):	209-681-5353
Contact:	Robert Barton	E-mail:	rbarton@myers-sons.com		
Office Address:	45 Morrison Ave. Sacramento, CA				
Billing Address:	(if different than above)				

Scope of Work

ACT Industrial will be providing (1) hydro vac operator and unit. Potholing approximately 10 potholes in varyin sizes and depth for exploration purposes aruond sensitive utility lines. Dumping of spoils will be onsite and provided by customer. All work is based on a Time and Materials basis in addition to portal to portal.

Description	Price	UM	Qty	Amount
Hydro-Ex Truck, Operated Straight Time	\$ 245.00	/hour	8	\$ 1,960.00
Hydro-Ex Truck, Operated Overtime	\$ 294.00	/hour	2	\$ 588.00
Hydro-Ex Truck, Operated Double-time	\$ 330.75	/hour	0	\$ -
PPE / COVID-19	\$ 50.00	/day	1	\$ 50.00
water	\$ 75.00		1	\$ 75.00
All rates are subject to energy & security surcharges variable from > 12%	12%		1.00	

Please note all work will be done on a time and materials basis portal to portal. For estimating cost and purposes the actual job will be invoiced on "atual time and materials". All work will be done under the terms and conditions contained in this Agreement.

Sub Total Estimate	\$	2,673.00
FFR Fee	\$	320.76
Total Cost Estimate	\$	2,993.76

Company: _____ PO#: _____

Name (please print): _____ Title: _____

Signature: _____ Date: _____

I am authorized to bind the Company



**TASK
AUTHORIZATION**



Richmond WWTP Sludge Thickener Project - Phase 1

Date: May 13, 2021

**Activity Classification
(Check applicable)**

Administration	<input type="checkbox"/>
Engineering	<input type="checkbox"/>
Planning	<input type="checkbox"/>
Design	<input type="checkbox"/>
Construction	<input type="checkbox"/>
Construction	<input type="checkbox"/>
Sanitary Sewer	<input checked="" type="checkbox"/>
Storm Sewer	<input type="checkbox"/>
Sanitary P.S.	<input type="checkbox"/>
Storm P.S.	<input type="checkbox"/>
Wastewater	<input type="checkbox"/>
Other (specify below)	<input type="checkbox"/>

VWNA Project #: 07029/C069

Proposed by: Chandrasekar Venkatraman, Veolia Water West Oper. Serv.

Reviewed by: Brian K. Bruce, Veolia Water West Operating Services

Reviewed by: Mary Phelps, Authorized City Dept. Rep. (PO verification)
Adopted by City Council 06/15/2021

Reviewed by: Resolution No 72-21
City of Richmond, Finance Department

Approved by: Joe Leach, City of Richmond, Public Works Director

Approval Date: 7/1/2021

Original Line Item Approved Cost:	\$	449,242
Approved Markup/Margin	\$	74,125
Total Authorized Amt.:	\$	523,367

Previously Authorized Amount: \$0.00

Scope of Services

The City of Richmond has historically utilized a dissolved air flotation thickener (DAFT) to thicken waste activated sludge (WAS) generated by the secondary treatment process prior to digestion and further treatment at the Wastewater Treatment Plant (WWTP). In recent years, the DAFT has become increasingly unreliable and has been taken out of service for emergency repairs on several occasions. The repairs have been costly; and the DAFT is currently undergoing extensive repairs and has been out of service for several months. While out of service during the upcoming Critical Improvements Project, the City and Veolia have solicited proposals to perform onsite thickening of the solids on a contract basis.

The purpose of the Richmond WWTP Sludge Thickener Project is to remove and replace the aging and unreliable DAFT with efficient, reliable sludge thickener facilities compatible with the WWTP's current and future treatment processes. The City and Veolia decided to bid the project in two phases; (1) Phase I as a design/build project with the plan that the selected design build entity (DBE) would be responsible for the design, construction, testing, and start-up of the new thickener facilities. The DBE will also be responsible for training Veolia staff on the new facilities and obtaining all approvals and permits required by local, state, and federal agencies to construct and implement the Project. Veolia will be providing project management and construction management services for the Project. (2) Phase II construction will be bid at a later date.

The project bid specifications were sent to two DBE entities. Two DBE submitted cost proposals in response to the RFP issued in September 2020. The proposals were reviewed by the City of Richmond Public Works and Veolia staff, and the lowest responsive bidder was determined to be Myers & Sons in the amount of \$449,242 (see attached). With Veolia's 16.5% markup, the total authorization amount for both the DBE (Phase I) is \$523,367.

Contractor Bid			Veolia Markup 16.50%	TOTAL	
Myers & Sons, Inc. - Phase I	449,242	-	449,242	74,125	523,367
TOTAL	449,242	-	449,242	74,125	523,367

Attachments

Copy of Contractor's bid proposal 3/5/21