



TOWN OF DISCOVERY BAY

A COMMUNITY SERVICES DISTRICT

SDLF Platinum-Level of Governance



PLATINUM LEVEL

President – Bryon Gutow • Director – Kevin Graves • Director – Ashley Porter • Director – Michael Callahan • Director – Carolyn Graham

**NOTICE OF THE REGULAR MEETING
OF THE WATER AND WASTEWATER COMMITTEE
OF THE TOWN OF DISCOVERY BAY
Wednesday, May 5, 2021
STANDING WATER AND WASTEWATER COMMITTEE REGULAR MEETING
5:30 P.M. – 6:30 P.M.**

**NOTICE
Coronavirus COVID-19**

In accordance with the Governor's Executive Order N-33-20, and for the period in which the Order remains in effect, the Town of Discovery Bay Community Services District Committee Chambers will be closed to the public.

To accommodate the public during this period of time that the Committee's Chambers are closed to the public, the Town of Discovery Bay Community Services District Committee Members have arranged for members of the public to observe and address the meeting telephonically.

TO ATTEND BY TELECONFERENCE:
Toll-Free Dial-In Number: (866) 848-2216
CONFERENCE ID **5193676302#**

Download Agenda Packet and Materials at www.todb.ca.gov/

Water and Wastewater Committee Board Members

Chair Kevin Graves

Vice-Chair Ashley Porter

A. ROLL CALL

1. Call business meeting to order 5:30 p.m.
2. Roll Call.

B. PUBLIC COMMENTS (Individual Public Comments will be limited to a 3-minute time limit)

During Public Comments, the public may address the Committee on any issue within the District's jurisdiction which is not on the Agenda. The public may comment on any item on the Agenda at the time the item is before the Committee for consideration. Any person wishing to speak will have 3 minutes to make their comment. There will be no dialog between the Committee and the commenter as the law strictly limits the ability of Committee members to discuss matters not on the agenda. We ask that you refrain from personal attacks during comment, and that you address all comments to the Committee only. Any clarifying questions from the Committee must go through the Chair. Comments from the public do not necessarily reflect the viewpoint of the Committee members.

C. DRAFT MINUTES TO BE APPROVED

1. Approve DRAFT minutes of April 7, 2021 Regular Water and Wastewater Committee meeting.

D. PRESENTATIONS

1. Water and Wastewater Update.

E. DISCUSSION ITEMS

1. Discussion Regarding Vac Truck.
2. Discussion and Provide Feedback Regarding the District's Strategy for Providing Sewer Services to Future New Developments.

3. Discussion and Provide Feedback on Scope of Work for BSK to Perform Geotechnical Services During Construction for the Denitrification Project in the Amount of \$90,752.
4. Discussion Regarding Diffuser Project.

F. FUTURE DISCUSSION/AGENDA ITEMS

G. ADJOURNMENT

1. Adjourn to the next Standing Water and Wastewater Committee meeting at the Community Center located at 1601 Discovery Bay Boulevard.

"This agenda shall be made available upon request in alternative formats to persons with a disability, as required by the American with Disabilities Act of 1990 (42 U.S.C. § 12132) and the Ralph M. Brown Act (California Government Code § 54954.2). Persons requesting a disability related modification or accommodation in order to participate in the meeting should contact the Town of Discovery Bay, at (925) 634-1131, during regular business hours, at least forty-eight hours prior to the time of the meeting."

"Materials related to an item on the Agenda submitted to the Town of Discovery Bay after distribution of the agenda packet are available for public inspection in the District Office located at 1800 Willow Lake Road during normal business hours."



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**MINUTES OF THE REGULAR MEETING
OF THE WATER AND WASTEWATER COMMITTEE
OF THE TOWN OF DISCOVERY BAY
Wednesday, April 7, 2021
5:30 P.M. – 6:30 P.M.**

NOTICE **Coronavirus COVID-19**

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Water and Wastewater Committee Board Members

*Chair Kevin Graves
Vice-Chair Ashley Porter*

- A. ROLL CALL**
1. Call business meeting to order 5:30 p.m. – By Chair Graves.
 2. Roll Call – All Present.
- B. PUBLIC COMMENTS (Individual Public Comments will be limited to a 3-minute time limit)**
None.
- C. DRAFT MINUTES TO BE APPROVED**
1. Approve March 3, 2021 Regular Water and Wastewater Committee DRAFT meeting minutes. Motion made by Vice-Chair Porter to approve the minutes of March 3, 2021. Second by Chair Graves.
Vote: Motion Carried – AYES: 2, NOES: 0, ABSTAINED: 0, ABSENT: 0
- D. PRESENTATIONS**
1. Water and Wastewater Update.
None.
- E. DISCUSSION ITEMS**
1. Discussion Regarding Denitrification Project Update.
District Water Engineer Gregory Harris gave update on current Denitrification Project. National Pollutant Discharge Elimination System (NPDES) permit requirements are revised every five years. Most recent update calls for a reduction of nitrogen in wastewater. The project is on track for timely completion in May 2023, to satisfy the requirements of this permit. Most improvements are taking place in Plant No. 2.
Chair Graves and Vice-Chair Porter discussed the possibility of delays and deadlines due to COVID-19 related issues. Questions arose regarding a request for extension of time to allow for unforeseen setbacks.

District Water Engineer Gregory Harris advised that the allowance for an extension might not be granted ahead of time. However, District Water Engineer Gregory Harris is confident in timely completion.

Veolia Project Manager Anthony Harper advised that the Veolia team is responsible for ensuring the project meets all deadlines.

General Manager Mike Davies advised that Town of Discovery Bay is keeping track of any COVID-19 related delays in the event that NPDES asks for proof of any impediments to the project's timely completion.

Chair Graves and Vice-Chair Porter asked clarifying questions about the project.

Vice-Chair Porter inquired about local agencies which already have a denitrification system that could be available for a tour.

District Water Engineer Gregory Harris advised that there are not many oxidation ditch combinations that are available in our area. Town of Discovery Bay system runs differently and is not comparable to other local wastewater systems.

2. Discussion Regarding Water Projects Update.

Water Engineer Justin Shobe gave the committee an update on Well 1B and other projects coming up in May. Hydrogeologist will give an update with rehabilitation issues and challenges in trying to restore performance to Well 1B. Full attempts are being made to have Well 1B back to full operation for the peak season this summer. Other projects that need to be completed before the high demand season are the filter repairs on Newport and Willow Lake. Well 4A is fully operational after a timely makeover. Pipeline crossing on Willow Lake is currently being worked on. During this project there will not be any interruptions in water service until the end of the project with minor noise activity during. Residents will receive ample notice of any disruptions to water service. Draft Urban Water Management Plan will be presented to the Board on April 21, 2021 for review.

F. FUTURE DISCUSSION/AGENDA ITEMS

Chair Graves asked Water Engineer Justin Shobe for an update on Well 6 at the next Water and Wastewater Committee Meeting.

G. ADJOURNMENT

1. Adjourned at 6:23 p.m. to the next Standing Water and Wastewater Committee meeting at the Community Center located at 1601 Discovery Bay Boulevard.

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District of Discovery Bay

"A Community Services District"

STAFF REPORT

Meeting Date

May 5, 2021

Prepared By: Gregory Harris, District Sewer Engineer
Submitted By: Dina Breitstein, Assistant General Manager

Agenda Title

Discussion and Provide Feedback Regarding the District's Strategy for Providing Sewer Services to Future New Developments.

Recommended Action

Provide possible feedback on the District's strategy in evaluating sewer services for future new developments outside the current service area.

Executive Summary

New developers often request from the District potential costs for providing sewer services to their future projects. Currently the District does not have adequate sewer facilities to incorporate any new future developments outside of the 2019 Wastewater Master Plan.

To provide answers to future developers requesting potential sewer services from Discovery, staff developed a strategy (outlined below).

Strategy Outlined

Staff has developed the following strategy for evaluating sewer service to the proposed parcels in the potential sewer service planning area.

1. Plant No. 1 will not be put back in service and all new facilities for future growth to be installed at Plant No. 2.
2. Sewer treatment process will be expanded in standard size modules similar in size to existing processes. i.e. smaller modules that may be adequate for just one development but will not serve other developments or will complicate plant redundancy will not be considered.
3. Where future developments benefit from existing infrastructure, even though new infrastructure is built, the cost value of the benefit determined by the District Capacity Fee Rate Consultant shall also be paid by future development.
4. All studies and analysis to evaluate future development shall be paid by future development.
5. Recycled water from the sewer treatment plant shall be integrated where feasible into all future development. A recycled water master plan shall be developed to address this item. The cost of this plan shall be paid by future development. The first step would be to hire a consultant to advise the District if the sewer quality is feasible for landscape use.
6. The capital risk of constructing future facilities shall be borne by future development. i.e the District will not float bonds to cover the cost of expansion for future development. Developers will have to provide the financing for the project. Any future expansion project will still be planned, designed, and constructed by the District. The cost

of which is paid for by the Developers.

7. The District may accommodate some initial phases of future development into existing sewer facilities where they can be safely accommodated based on the sewer capacity fee at the time.

Specific Committee Action:

Provide possible feedback on the District's strategy in evaluating sewer services for new future development outside the current service area.

Previous Relevant Board Actions for This Item

Authorization of Wastewater Master Plan 2019 Update

Fiscal Impact: None.

Amount Requested:

Sufficient Budgeted Funds Available?:








Prog/Fund # Category: TBD

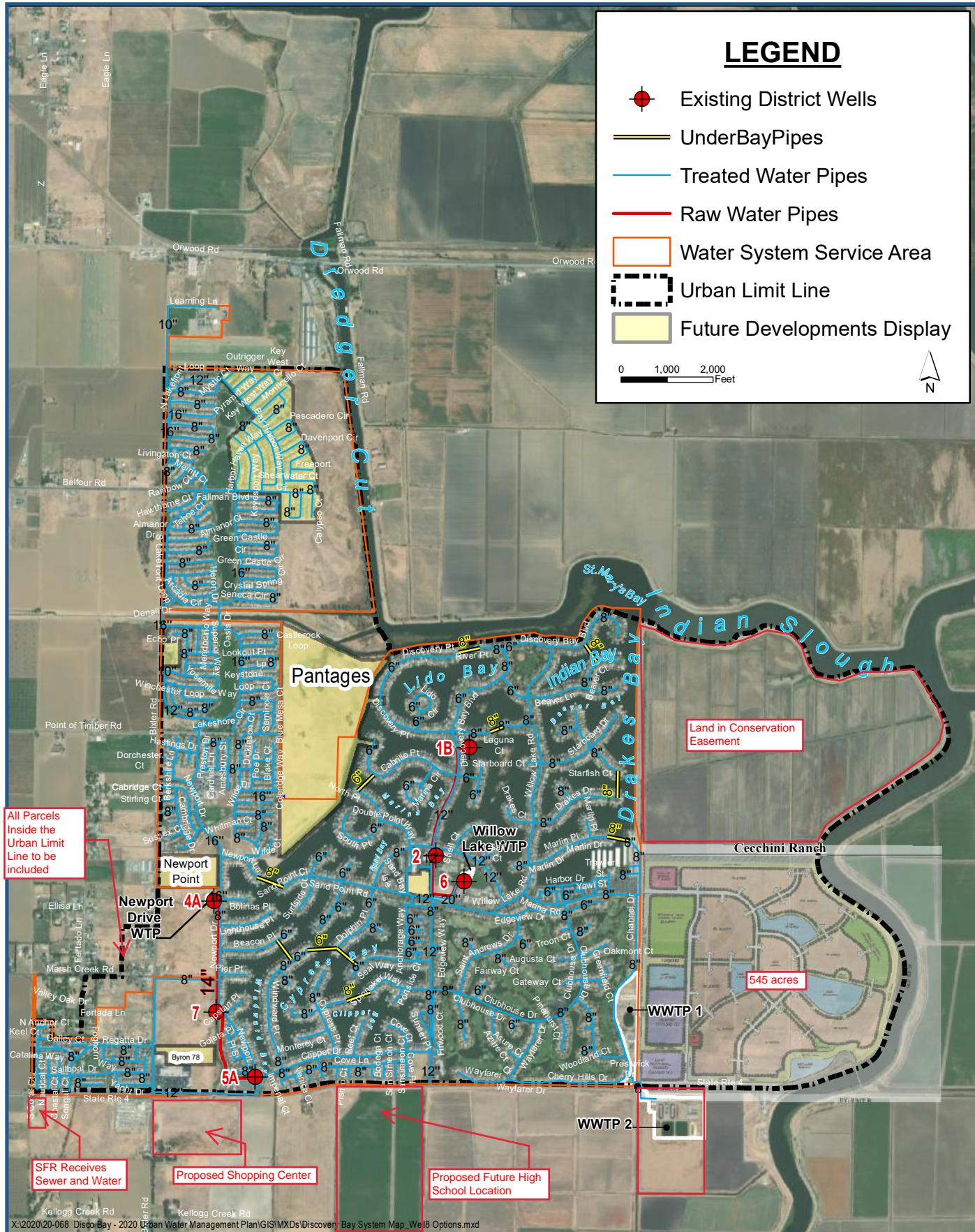
Attachments

Map: Existing and Proposed Sewer and Water Planning Area.

AGENDA ITEM: E-2

LEGEND

-  Existing District Wells
 -  UnderBayPipes
 -  Treated Water Pipes
 -  Raw Water Pipes
 -  Water System Service Area
 -  Urban Limit Line
 -  Future Developments Display
- 0 1,000 2,000 Feet
- N



All Parcels Inside the Urban Limit Line to be included

Land in Conservation Easement

545 acres

SFR Receives Sewer and Water

Proposed Shopping Center

Proposed Future High School Location



Existing and Proposed Sewer and Water Planning Area

2020 Urban Water Management Plan
Town of Discovery Bay Community Services District

X:\2020\20-068 Disco Bay - 2020 Urban Water Management Plan\GIS\MXDs\Discovery Bay System Map_We18 Options.mxd



Town of Discovery Bay

"A Community Services District"

STAFF REPORT

Meeting Date

May 5, 2021

Prepared By: Gregory Harris, District Wastewater Engineer
Submitted By: Dina Breitstein, Assistant General Manager

Agenda Title

Discussion and Provide Feedback on Scope of Work for BSK to Perform Geotechnical Services During Construction for the Denitrification Project in the Amount of \$90,752.

Recommended Action

Provide feedback for Staff to bring the BSK proposal to the Board at the May 19, 2021, Board of Directors meeting.

Executive Summary

The Town is currently out to bid to build the Denitrification and Master Plan Upgrades Project. During construction the Town needs the geotechnical consultant to perform certain tests including compaction testing and concrete testing to verify conformance with the project specification. BSK is the Geotechnical Engineer of Record for the project.

This work was included in the current CIP for the denitrification project. The original CIP budget item for this work was \$50,000. The cost has increased when oxidation ditch No. 1 was moved to Plant No. 2. Work is performed on time and materials basis and the proposed amount is an estimate possible work required.

Specific Committee Action:

Provide feedback for Staff to bring the BSK proposal to the Board at the May 19, 2021, Board of Directors meeting.

Previous Relevant Board Actions for This Item

Authorization of CIP item 7018.

Fiscal Impact: Part of Existing CIP
Amount Requested: \$ 90,752
Sufficient Budgeted Funds Available?: Yes
Prog/Fund # Category: TBD

Attachments

1. BSK Proposal Dated April 2, 2021

AGENDA ITEM: E-3



399 Lindbergh Avenue
Livermore CA 94551
P 925.315.3151
F 925.315.3152
www.bskassociates.com

April 2, 2021

BSK Proposal CL21-21789

Mr. Gregory Harris, PE – HERWIT Engineering
c/o Town of Discovery Bay CSD
1800 Willow Lake Road
Discovery Bay, California 94505

**SUBJECT: Revised Proposal for Geotechnical Observation, Materials Testing, and
Special Inspection Services
Denitrification and Master Plan Upgrades Project – Project No. 7005 and 7018
Discovery Bay Wastewater Treatment Plant
State Route 4, Discovery, California**

Dear Mr. Harris:

BSK Associates (BSK) is pleased to present this revised proposal to provide geotechnical observation, materials testing, and special inspection services for the planned Denitrification and Master Plan Upgrades project (master plan projects no. 7005 and 7018) in Discovery Bay for which BSK has provided geotechnical recommendations in the following documents:

- *Geotechnical Investigation Report, Denitrification and Master Plan Improvements Project, Wastewater Treatment Plant, Discovery Bay, California*, dated February 20, 2020 (BSK file No. G19-194-11L).
- *Updated Geotechnical Investigation Report, Denitrification and Master Plan Improvements Project, Wastewater Treatment Plant, Discovery Bay, California* (issued as a DRAFT), dated October 30, 2020 (BSK file No. G19-194-11L).
- *Geotechnical Review of 30 Percent Specifications, Denitrification and Master Plan Improvements Project, Discovery Bay, California*, dated February 3, 2020 (BSK file No. G19-194-11L).
- *Geotechnical Review of 90% Plans and Specifications, Denitrification and Master Plan Improvements Project, Discovery Bay, California*, dated March 22, 2021 (BSK file No. G19-194-11L).

Our services will be performed to monitor and test conformance of the construction operations with the project plans and specifications prepared by Herwit Engineering and our geotechnical documents referenced above.

We have based our proposal on the anticipated duration of the project – approximately 2 years – with an expected construction start date of June 1, 2021, our experience with this project and our current and past experience with similar wastewater treatment improvement projects for the Cities of Brentwood, Hercules, Manteca, and Pinole. BSK is currently providing materials testing and special inspection services to the City of Brentwood as they expand and improve their current treatment facility at 2201 Elkins Way, a mere 10 miles from this project site. **Our original proposal was issued on March 24, 2021 and has been revised to based on your input.**

BSK has implemented the safety requirements of local and state ordinances associated with COVID-19, including having our employees practice proper social distancing, proper hygiene, and using personal protective equipment. BSK has also implemented a system for checking the health/wellness of employees that are working in our offices, laboratories, or project sites at the beginning and end of their work shifts to reduce the risk of cross infection. Because most of BSK's current portfolio of projects and operations are considered Essential by our public agency clients, our offices and laboratories remain open and operational. Our team works remotely whenever possible while essential staff operate safely within our offices, laboratories, and onsite as needed.

The following sections present our proposed scope of services, fee quotation, and project limitations for your consideration.

PROJECT DESCRIPTION

According to the project plans, the project consists of construction of new concrete Anoxic Basins, a concrete Oxidation Ditch, pump stations, and other modifications to the Town of Discovery Bay's wastewater treatment facility. Additional improvements will include pumps and piping, valves, mechanical work (process equipment installation), civil pipeline work, site electrical, and other associated improvements.

SCOPE OF SERVICES

Our anticipated scope of services and fee estimate listed below are based on a part-time and/or full-time observation and testing services during construction as noted below. We will provide our services on a **time and materials**, and on-call basis in accordance with our Schedule of Fees included with this proposal. We will require a minimum of 24-hour notice for scheduling our observation and testing visits, except for our initial site visit and for weekend, nighttime, and holiday work, which will require a minimum of 48-hour notice. Note that for on-call services, we rely on the client or its representative (i.e., project inspector, construction manager, contractor, etc.) to schedule our visits. Inspection requests can be made through livermoredispatch@bskassociates.com, with the BSK project manager copied.

We assumed that each site visit by our representatives will be approximately 4 to 8 hours long (including travel) and will be carried out during weekdays only. A minimum charge of 4 hours will apply to each site visit (except for show-up, sample pickup, or visits by our project manager) as discussed in the Basis of Charges below. If site visits are longer than 8 hours and/or weekend/holiday work becomes necessary due to the contractor's schedule, overtime rates will apply as noted in the Basis of Charges.

Our anticipated scope of services and estimated fee breakdown, including assumed field hours, is presented in the table below. **Please note that the actual number of site visits and duration of these visits will depend on the progress and workmanship of the contractor during construction. Therefore, our actual charges will vary accordingly.**



FEE ESTIMATE
Town of Discovery Bay WWTP Denitrification and Master Plan Upgrades Project

PRE-CON MEETING & FIELD SERVICES		VISITS	HRS/DAY	HOURS	RATE	EXTENSION
Earthwork						
	Foundation Inspection	8	4	32	\$171.00	\$5,472.00
	Compaction Testing Technician	20	6	120	\$129.00	\$15,480.00
	Pipe Backfill Testing and Observation	20	6	120	\$129.00	\$15,480.00
	Nuclear Gauge Equipment Fee	40			\$61.00	\$2,440.00
	Sample Pickup and Delivery	2	2	4	\$108.00	\$432.00
Concrete						
	Concrete Placement Sampling	20	4	80	\$112.00	\$8,960.00
	Sample Pickup and Delivery	20	2	40	\$108.00	\$4,320.00
Shotcrete						
	Shotcrete Placement Sampling	4	4	16	\$112.00	\$1,792.00
	Pre-construction Test Panel Observation (Dependent on Number of Nozzlemen)	2	8	16	\$142.00	\$2,272.00
	Sample Pickup and Delivery	4	2	8	\$142.00	\$1,136.00
	Trip Charge (Vehicle & Mileage)	100			\$53.00	\$5,300.00
FIELD SERVICES ESTIMATE						\$63,084.00

LABORATORY TESTING		FREQUENCY	SETS/UNITS	RATE	EXTENSION
Laboratory Testing					
	Concrete Compressive Strength Test (Set of 4)	1 Set / 150 CY	50	\$141.00	\$7,050.00
	Shotcrete Compressive Strength Tests	1 panel / day	5	\$330.00	\$1,650.00
	Compaction Curves - Base Rock (6" Mold)	1 per material	2	\$259.00	\$518.00
	Compaction Curves - Site Soils (4" Mold)	1 per material	5	\$244.00	\$1,220.00
LABORATORY TESTING ESTIMATE					\$10,438.00

BSK SERVICES ADMINISTRATION		HOURS	RATE	EXTENSION
Registered Engineer (Review, support and reporting)		8	\$248.00	\$1,984.00
		6	\$221.00	\$1,326.00
Project Manager (Field Oversight, Daily Report Review)		25	\$171.00	\$4,275.00
Administration (Data Processing, Report Prep., Field Coordination)		25	\$86.00	\$2,150.00
Certified Payroll / DIR Upload		18	\$300.00	\$5,400.00
Non-Performance Certified Payroll / DIR Upload		6	\$100.00	\$600.00
Final Construction Observation/Testing Letter		1	\$248.00	\$248.00
		1	\$221.00	\$221.00
		6	\$171.00	\$1,026.00
ADMINISTRATION ESTIMATE				\$17,230.00
TOTAL BUDGET ESTIMATE				\$90,752.00

Our fee estimate applies to services commenced within 90 days of this proposal. After that time, we should review our proposal for applicability. The fees for our services will be charged on a time and materials basis in accordance with our attached 2021 Schedule of Fees. Laboratory tests and engineering time would be per the Schedule of Fees and billed for the number of tests accomplished and the number of hours provided. Any services required in addition to those listed above would be in accordance with our attached Schedule of Fees. **We have assumed that there is no Project Labor Agreement in-place for this project.**

For the scope of services outlined above, we anticipate an estimated total fee of approximately **\$90,800**. Should the construction schedule or your requested site visits require a lesser or greater amount of service than that estimated herein, our fees would vary accordingly. Our fee estimate does not include a contingency for retesting or re-inspection of failing tests or unsatisfactory work by the contractor. The actual cost of our services will depend largely on the contractor's actual schedule and progress, as well as



possible impacts of weather, work stoppages, and quality of material used, all of which are beyond our control. Proficient contractor performance reduces the number of test and inspection visits required, consequently resulting in lower total fees. We are not in control of such events, nor how and when construction activities are completed, and as a result, we can only approximate our estimates for your use. **To account for such uncertainties, we suggest that a contingency budget of at least 20 percent of the above estimated fee for construction be set aside for our services.**

It is our practice to notify you if it appears our fees will exceed our estimate, but due to the timing and nature of our services and to make sure that your project is not delayed, this may not always be possible. Our invoices however will serve as an update of our progress as well as fees charged versus our estimate. Invoices are payable upon receipt and deemed delinquent if not paid within 60 days. Delinquent invoices may be subject to interest/service charges, and collection expenses including attorney's fees, at our election.

AUTHORIZATION

If you agree with the proposed scope and fees presented in this proposal, please send us an amendment to our existing agreement with the Town of Discovery Bay dated August 21, 2019 or a new agreement for our review and signature.

Acceptance of this proposal will indicate that the Client has reviewed the scope of services and determined that they do not need or want more services than are being proposed at this time. If there is a need for any change in the scope of services or schedule described in the proposal or in the standard contract, please call us immediately. Changes may require revision of the above fee estimate.

This proposal presents our understanding of your current needs for construction observation and testing services during construction of this project. BSK is committed to providing quality service to its clients, commensurate with their wants and needs. If a portion of this proposal does not meet your needs, or if those needs have changed, BSK is prepared to consider appropriate modifications, subject to the standards of care to which we adhere as professionals. Modifications such as changes in scope, methodology, scheduling, and contract terms and conditions may result in changes to the risks assumed by the Client as well as adjustments to our fees.

LIMITATIONS

BSK will perform its services consistent with that level of care and skill ordinarily exercised by other consultants practicing in the same discipline and locale at the time the services are performed. No other warranties, either express or implied are provided. If changes occur in the design of the project, BSK should be notified in writing.

It should be recognized that construction monitoring is a technique employed to reduce the risk of problems arising during construction. Provision of construction monitoring by an engineer is not insurance, nor does it constitute a warranty or guarantee of any type. Even with diligent construction monitoring, some construction defects may be missed. In all cases, the contractor shall retain responsibility for the quality of the work and for adhering to plans and specifications and for repairing defects regardless of when they are found. We do not undertake the guarantee of construction nor production of a completed project conforming to the project plans and specifications.



CLOSURE

We appreciate the opportunity to submit this proposal for your consideration and we look forward to working with you on this project. If you have questions concerning this proposal or require additional information or services, please contact the undersigned at (925) 315-3151.

Respectfully submitted,

BSK Associates



Omar K Khan
Project Geologist



Cristiano Melo, PE, GE
Livermore Branch Manager

Attachments: Basis of Charges
2021 BSK Schedule of Fees

BASIS OF CHARGES
Geotechnical Observation, Materials Testing, and Special Inspections Services
Denitrification and Master Plan Upgrades Project
Town of Discovery Bay WWTP

The charge schedule listed below will be our basis for invoicing.

Show-up (No site work performed)	Bill 2 Hours
Sample Pickup	Bill 2 Hours
Work up to 4 Hrs.	Bill 4 Hours
Work from 4 to 6 Hrs.	Bill 6 Hours
Work from 6 to 8 Hrs.	Bill 8 Hours
Work from 8 to 12 Hrs. and Saturdays	Time and One Half
Work Over 12 Hrs., Sundays and Holidays	Double Time

BSK Associates - January 1, 2021 to June 30, 2021 Prevailing Wage Schedule of Fees

PERSONNEL RATES																																																																																																																																											
<p>PROFESSIONAL STAFF</p> <table border="0" style="width: 100%;"> <tr><td>Principal</td><td style="text-align: right;">\$ 248.00</td></tr> <tr><td>Senior Professional</td><td style="text-align: right;">\$ 221.00</td></tr> <tr><td>Project Professional II</td><td style="text-align: right;">\$ 204.00</td></tr> <tr><td>Project Professional I</td><td style="text-align: right;">\$ 171.00</td></tr> <tr><td>Staff Professional II</td><td style="text-align: right;">\$ 154.00</td></tr> <tr><td>Staff Professional I</td><td style="text-align: right;">\$ 138.00</td></tr> <tr><td>Seismic GIS</td><td style="text-align: right;">\$ 193.00</td></tr> <tr><td>GIS Specialist</td><td style="text-align: right;">\$ 138.00</td></tr> <tr><td>Information Specialist II</td><td style="text-align: right;">\$ 154.00</td></tr> <tr><td>Information Specialist I</td><td style="text-align: right;">\$ 138.00</td></tr> <tr><td>CAD</td><td style="text-align: right;">\$ 100.00</td></tr> <tr><td>Project Administrator</td><td style="text-align: right;">\$ 95.00</td></tr> </table> <p>EQUIPMENT</p> <table border="0" style="width: 100%;"> <tr><td>Nuclear Gauge (Day)</td><td style="text-align: right;">\$ 61.00</td></tr> <tr><td>Ultrasonic Weld Equipment (Day)</td><td style="text-align: right;">\$ 61.00</td></tr> <tr><td>Torque Wrench (Day)</td><td style="text-align: right;">\$ 61.00</td></tr> <tr><td>Proof Load Equipment (Day)</td><td style="text-align: right;">\$ 61.00</td></tr> <tr><td>Rebar Locator / Pachometer</td><td style="text-align: right;">\$ 110.00</td></tr> <tr><td>Hand Auger (Day)</td><td style="text-align: right;">\$ 221.00</td></tr> <tr><td>Water Meter (Day)</td><td style="text-align: right;">\$ 56.00</td></tr> <tr><td>Drilling Kit - 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71.00	Soluble Sulfate, Chloride and Sulfide	\$ 142.00	Oxidation Reduction of Soil	\$ 61.00	Freeze Thaw Abrasion (ASTM D560)	\$ 681.00	Wetting-Drying Abrasion (ASTM D559)	\$ 647.00	Preparation of Freeze-Thaw or Wetting-Drying Tests	\$ 818.00	Soil Cement Compression (ASTM D1633)	\$ 261.00	Cement Content Soil Cement (ASTM C1084)	\$ 261.00	Sample Preparation	\$ 71.00	Crumb Test Dispersion (ASTM D6572)	\$ 85.00	Pinhole Dispersion Test (ASTM)	\$ 272.00	Sand Density Calibration (ASTM D1566)	\$ 102.00	Unconfined Compression (ASTM D2166)	\$ 137.00	Direct Shear, Undisturbed (ASTM D3080)	\$ 238.00	Direct Shear, Remolded (ASTM D3080)	\$ 285.00	Triaxial Compression Testing	QUOTE																																												
Standard Proctor, 4" (ASTM/AASHTO)	\$ 256.00																																																																																																																																										
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Caltrans Maximum Wet Density (CT 216)	\$ 233.00																																																																																																																																										
Check Point	\$ 148.00																																																																																																																																										
Sieve Analysis w/ Wash (ASTM D422)	\$ 185.00																																																																																																																																										
Minus #200 Wash, Soil (ASTM D1140)	\$ 90.00																																																																																																																																										
Hydrometer Analysis (ASTM D422)	\$ 244.00																																																																																																																																										
Double Hydrometer (ASTM D4221)	\$ 340.00																																																																																																																																										
Specific Gravity of Soil (ASTM D854)	\$ 174.00																																																																																																																																										
Visual Classification (ASTM D2488)	\$ 47.00																																																																																																																																										
Sand Equivalent (ASTM D2419)	\$ 137.00																																																																																																																																										
% Organics in Soil (ASTM D2974)	\$ 149.00																																																																																																																																										
Plasticity Index (ASTM D4318)	\$ 238.00																																																																																																																																										
Shrinkage Limits of Soils (ASTM D427)	\$ 222.00																																																																																																																																										
Expansion Index of Soils (UBC No. 29)	\$ 256.00																																																																																																																																										
Tube Density	\$ 54.00																																																																																																																																										
Moisture Content of Soils (ASTM D2216)	\$ 47.00																																																																																																																																										
R-Value of Soils (CT 301)	\$ 432.00																																																																																																																																										
R-Value of Treated Materials (CT 301))	\$ 478.00																																																																																																																																										
Consolidation (ASTM D2435)	\$ 455.00																																																																																																																																										
Consolidation , Extra Points (ASTM D2435)	\$ 61.00																																																																																																																																										
Collapse Potential of Soils (ASTM D2435)	\$ 222.00																																																																																																																																										
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BSK Associates - January 1, 2021 to June 30, 2021 Prevailing Wage Schedule of Fees

MATERIALS LABORATORY TESTS		
AGGREGATES		
Sieve Analysis Coarse or Fine (ASTM C136)	\$	90.00
Sieve Analysis w/ Fineness Modulus	\$	97.00
Minus 200 Wash, Aggregates (ASTM C117)	\$	90.00
Specific Gravity/Absorption (ASTM C127)	\$	174.00
Specific Gravity/Absorption (ASTM C128)	\$	174.00
Organic Impurities (ASTM C40)	\$	90.00
% Lumps/Friable Particles (ASTM C142)	\$	88.00
% Flat and Elongated (ASTM D4791)	\$	137.00
Fine Aggregate Angularity (AASHTO 304)	\$	88.00
Moisture Content (ASTM D2216)	\$	47.00
Aggregate Wt., pcf Compacted (ASTM C29)	\$	85.00
Aggregate Wt., pcf Loose (ASTM C29)	\$	71.00
Abrasion by LA Rattler, Small Size (ASTM C131)	\$	256.00
Abrasion by LA Rattler, Large Size (ASTM C131)	\$	312.00
Sodium Sulfate Soundness, Per Sieve (ASTM C88)	\$	119.00
Sodium Sulfate Soundness, Min. Charge (ASTM C88)	\$	380.00
Relative Mortar Strength of Sand (ASTM C87)	\$	465.00
Sand Equivalent (ASTM D2419 OR CT 217-1)	\$	137.00
Durability Index (CT 229)	\$	272.00
Potential Reactivity of Aggregates		QUOTE
Cleaness Value of Aggregate (CT 227)	\$	196.00
Hydrometer (ASTM D422 OR CT 205-E)	\$	244.00
% Crushed particles (CT 205)	\$	180.00
Lightweight Pieces (ASTM 123)	\$	238.00
HOT MIX ASPHALT		
Mix Design, HVEEM	\$	3,373.00
Mix Design, Marshall	\$	3,997.00
JMF Mix Design, Superpave / Caltrans	\$	9,739.00
JMF Verification - HMA - Superpave / Caltrans	\$	5,644.00
JMF Production Startup - Superpave / Caltrans	\$	5,250.00
RAP Material Testing - Additional Fee	\$	683.00
Rubberized RHMA Material - Additional Fee	\$	1,575.00
Hamburg Wheel Track (AASHTO T324)	\$	2,862.00
Gyratory Compaction (AASHTO T312)	\$	364.00
AC Content by Centrifuge (ASTM D2172)	\$	312.00
AC / Ash Correction (ASTM D2172 / CT382)	\$	312.00
AC Content-Ignition (ASTM D6307 / CT382 / AASHTO T308)	\$	244.00
Superpave Ignition Oven Correction (AASHTO T308)	\$	595.00
Moisture Content of Asphalt (CT 370)	\$	71.00
Gradation/Extraction Aggregate (ASTM D5444)	\$	148.00
Film Stripping	\$	97.00
Compaction/Preparation of HMA Briquette (CT 304)	\$	238.00
Stabilometer Value (CT 366 / AASHTO T246)	\$	191.00
AC Core Specific Gravity (ASTM D2726)	\$	61.00
AC Core Specific Gravity - Paraffin Coated (AASHTO T275)	\$	167.00
AC Max Density Rice Method (ASTM D2041)	\$	272.00
Tensile Strength Ratio (AASHTO T283)	\$	1,193.00
Moisture Vapor Susceptibility (CT 307)	\$	222.00
AC Surface Abrasion (CT 360)	\$	545.00
Index Retained Strength (ASTM D1074-D1075)	\$	488.00
AC Hveem Maximum Density (CT 375)	\$	488.00
Marshall Stability and Flow (ASTM D6927)	\$	272.00
Calculated AC Maximum Density (CT 367)	\$	108.00
Marshall Maximum Density, 50 Blows (ASTM D6926)	\$	317.00
Examination of AC Cores	\$	37.00
Thickness Determination of AC Cores	\$	24.00
AC Tensile-Strength Premixed ASTM D4867	\$	705.00
AC Tensile-Strength Lab Mixed ASTM D4867	\$	830.00
REINFORCING STEEL		
Tensile & Bend of Rebar, #3 - #8	\$	161.00
Tensile & Bend of Rebar, #9 - #11	\$	161.00
Bend Test of Rebar	\$	66.00
Slip and Tensile Rebar Couplers (CT 670)	\$	233.00
Tension Test of Welded Wire Fabric		QUOTE
Bend Test of Welded Wire Fabric		QUOTE
Weld Shear Test, Welded Wire Fabric		QUOTE
PT Cable Tensile and Elongation (ASTM A416 or A421)	\$	295.00
PT Cable Preparation		QUOTE
CONCRETE		
Cement Content Concrete (ASTM C1084)	\$	410.00
Chemical Test (ASTM C150)		QUOTE
Set Times Cement-Vicat Needle (ASTM C191)	\$	340.00
Specific Gravity of Hydraulic Cement (ASTM C191)	\$	164.00
Lineal Shrinkage Set of 3 (ASTM C157)	\$	432.00
Compression Test of Concrete - 1 (ASTM C39)	\$	37.00
Compression Test of Concrete - 4 (ASTM C39)	\$	148.00
Compression Test of Core (ASTM C42)	\$	66.00
Preparation of Specimens, Sawing	\$	74.00
Compressive Strength of Shotcrete Panel	\$	347.00
Proportion of Cement in Concrete (ASTM C85)	\$	380.00
Flexural Test Per Beam (ASTM C78)	\$	97.00
Splitting Tensile Strength of Concrete (ASTM C496)	\$	97.00
Unit Weight Lt Wt Concrete (ASTM C567)	\$	61.00
"AZ" Test-Reinforced Concrete Pipe "Life Factor"	\$	85.00
9 Pt Core Measurements, Each (ASTM C174)	\$	37.00
Compressive Strength of Gunite	\$	66.00
Concrete Trial Batches		QUOTE
Unit Weight & Abs Concrete (ASTM D642)	\$	137.00
Accelerated Curing of Concrete (ASTM C684)	\$	272.00
Cylinder Molds (each)	\$	7.00
Storage of Concrete Cylinders for more than 45 Days	\$	63.00
RH Probe	\$	63.00
Calcium Chloride Kit	\$	42.00
Mixing Water (pH, elec. conductance, chloride, sulfate)	\$	108.00
Contact Soil (pH, elec. conductance, chloride, sulfate)	\$	130.00
MASONRY		
Concrete Masonry Units Testing (ASTM C90)		
Compression Test Pavers, Single	\$	84.00
Compression Test Compos Composit CMU Prism	\$	180.00
Specific Gravity and Unit Weight	\$	125.00
Moisture Content	\$	58.00
Compression Test, Masonry Units (ASTM C140)	\$	113.00
Absorption / Moisture Content (ASTM C140)	\$	113.00
Linear Shrinkage (ASTM C426)	\$	438.00
Masonry Core Shear Test (Title 24)	\$	119.00
Masonry Core Compression/Shear Test (Title 24)	\$	204.00
Compression Test Brick, Each (ASTM C67)	\$	85.00
Absorption/ Unit Wt. of Brick (ASTM C67)	\$	85.00
Compression Test Grout (Set of 3 or 4)	\$	130.00
Compression Test Mortar (Set of 3 or 4)	\$	119.00
WELDING AND STRUCTURAL STEEL		
Welder Qualification Testing		
Welder / Procedure Welder Qualification Testing		QUOTE
Face Bend of Steel	\$	66.00
Root Bend of Weld Coupon	\$	66.00
Side Bend of Weld Coupon	\$	66.00
Tensile Test of Steel Coupon	\$	90.00
Bend Test of Steel Coupon	\$	78.00
Machining Charges (Per Coupon)		QUOTE
Brinell Hardness of Steel (ASTM E10)	\$	108.00
Rockwell Hardness of Steel (ASTM E18)	\$	108.00
Bolt Ultimate Load	\$	153.00
Bolt Hardness (set of 3)	\$	108.00
Nut Hardness (set of 3)	\$	108.00
Washer Hardness (set of 3)	\$	108.00
Proof Loading, bolt or nut	\$	153.00
FIREPROOFING		
Cohesion/Adhesion Fireproofing Materials	\$	137.00
Dry Density Fireproofing (ASTM E605)	\$	103.00

Escalation: The billing rates presented herein will be increased by 3% annually on January 1st of each year following the initiation of a services agreement.