CALL TO ORDER: Welcome to the Three Rivers Levee Improvement Authority (TRLIA) meeting. As a courtesy to others, please turn off cell phones or other electronic devices which might disrupt the meeting. Thank you.

I ROLL CALL – Directors Atwal, Brown, Lofton, Ritchie, Vasquez

II PUBLIC COMMUNICATIONS: Any person may speak about any subject of concern within the jurisdiction of TRLIA which is not on today’s agenda. The total amount of time allotted shall be limited to a total of 15 minutes and each individual or group will be limited to no more than 5 minutes. Prior to this time, speakers are requested to fill out a “Request to Speak” card and submit it to the secretary.

III CONSENT AGENDA: Matters listed are considered to be routine and can be enacted by one motion.

A. Approve minutes of the meeting of April 18, 2017.

IV ACTION ITEMS

A. Review and accept Proposed Reclamation District 784 (RD 784)/TRLIA Proposed Fiscal Year 2017/2018 Budget for maintenance of levees improved by TRLIA.

B. Approve Amendment No. 5 to agreement with River Partners in the amount of $48,193.87 for additional two years of maintenance and management services for Bear River Setback Restoration area and authorize Executive Director to execute upon review of Counsel.

C. Approve Amendment No. 22 to agreement with GEI in the amount of $179,104 for environmental services for the Western Pacific Interceptor Canal 200-year Standard Project and Feather River Setback Conservation Bank and authorize Executive Director to execute upon review of Counsel.

D. Approve Amendment No. 22 to agreement with HDR Contract No. PH4 2016-01 in an amount not to exceed $690,231 for construction management services for the Western Pacific Interceptor Canal 200-Year Standard Project and authorize Executive Director to execute upon review of Counsel.

V. BOARD AND STAFF MEMBER REPORTS

A. Miscellaneous reports

B. Central Valley Flood Protection Board Presentation May 19, 2017 on Goldfields 200-year Project

VI. ADJOURN

The complete agenda, including backup material, is available at the Yuba County Government Center, 915 8th Street, Suite 109, the County Library at 303 Second Street, Marysville, and www.trlia.org. Any disclosable public record related to an open session item on the agenda and distributed to all or a majority of the Board of Directors less than 72 hours prior to the meeting are available for public inspection at Suite 109 during normal business hours.

In compliance with the Americans with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available. If you have a disability and need disability-related modifications or accommodations to participate in this meeting, please contact the Clerk of the Board's office at (530) 749-7510 or (530) 749-7353 (fax). Requests must be made one full business day before the start of the meeting.
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

APRIL 18, 2017

MINUTES

Call to order 2:00 p.m. with a quorum being present as follows: Directors Rick Brown, Doug Lofton, and Andy Vasquez. Directors Sarbdeep Atwal and Edward Ritchie absent. Also present were Executive Director Paul Brunner, Counsel Andrea Clark, and Secretary/Clerk of the Board of Supervisors Donna Stottlemyer. Chair Brown presided.


II PUBLIC COMMUNICATIONS: None.

III CONSENT AGENDA: Matters listed are considered to be routine and can be enacted by one motion.

MOTION: Move to approve 
MOVED: Andy Vasquez 
SECOND: Doug Lofton
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None 
ABSTAIN: None 
ABSENT: Sarbdeep Atwal, Edward Ritchie

A. Approve minutes of the meeting of March 21, 2017. Approved.

IV ACTION ITEMS

A. Adopt resolution approving agricultural lease agreement with Knights Grapevine Nursery, and authorize Executive Director to negotiate final terms and execute lease. Executive Director Paul Brunner recapped space, terms of lease, and responded to inquiries.

MOTION: Move to approve 
MOVED: Andy Vasquez 
SECOND: Doug Lofton
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None 
ABSTAIN: None 
ABSENT: Sarbdeep Atwal, Edward Ritchie

Adopted Resolution No. 2017-1.

B. Approve expenditure of $1,700 per person for board members, and Executive Director choosing to attend annual Flood Management Association conference September 5-8, 2017 held in Long Beach, California. Executive Director Paul Brunner recapped and responded to inquiries.

MOTION: Move to approve 
MOVED: Andy Vasquez 
SECOND: Doug Lofton
AYES: Rick Brown, Doug Lofton, Andy Vasquez
NOES: None 
ABSTAIN: None 
ABSENT: Sarbdeep Atwal, Edward Ritchie

V BOARD AND STAFF MEMBER REPORTS

Executive Director Paul Brunner:
• Western Pacific Interceptor Canal
• Feather River Setback Area public entrance at Country Club still closed and damage to access
• Flood Inundation Map Study by Irvine University
VI CLOSED SESSION: The Board retired into closed session at 2:38 p.m. and returned at 2:53 p.m. There was no report.

Conference with Real Property Negotiators pursuant to Government Code §54956.8 - Negotiating Parties: TRLIA/Kelly Pope/Paul Brunner/Brenda Schimpf. Negotiation: Price and terms of payment for the following properties:

A) APN 018-180-072 and 073 Sanders
B) APN 018-180-074 Clift
C) APN 018-180-070 and 079 Ludwick
D) APN 018-180-066 and 078 Gallier
E) APN 018-170-002 Robinson
F) APN 017-170-012 and 016 Fahy
G) APN 017-170-014 Precast Concrete
H) APN 018-180-080 and 082 Wilbur
I) APN 018-150-035 Barker
K) APN 018-180-085 Nunes

VII ADJOURN: 2:54 p.m.

______________________________
Chair

ATTEST: DONNA STOTTLEMEYER
CLERK OF THE BOARD OF SUPERVISORS
AND SECRETARY OF THE PUBLIC AUTHORITY

______________________________
Approved: ______________________
June 6, 2017

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director
SUBJECT: FY 2017/18 RD 784 Urban Levee Maintenance Budget

**Recommendation:** Review and accept the proposed RD 784/TRLIA proposed FY 17/18 budget (attached) for maintenance of levees improved by TRLIA.

**Background:** On June 2, 2009 the TRLIA Board adopted a resolution to form the TRLIA Benefit Assessment District to pay for long-term maintenance and operations for the TRLIA improvements on approximately 29 miles of improved levees.

On August 4, 2009 TRLIA and RD 784 signed a Memorandum of Agreement (MOA) that outlined the relationship of the organizations with regards to the use of TRLIA Assessment revenues. RD 784 is to operate and maintain improved levees and TRLIA’s formation of the Assessment District is to fund that operation and maintenance. In addition, the MOA sets forth the budget process that will take place annually. TRLIA and RD 784 will work cooperatively to prepare a budget that clarifies how the assessment district funds will be used. The TRLIA Board will then review and accept that budget. As TRLIA had informed the public throughout the assessment district formation process, the TRLIA Board will participate in the RD 784 levee maintenance budgeting process to ensure that assessment revenues are being used to achieve the operations and maintenance requirements of the many federal, State, and local agreements signed by TRLIA. In addition, TRLIA must review the budget in order to ensure that the assessment funds are used for the purposes approved by the benefited property owners.

**Discussion:** TRLIA staff has reviewed the proposed RD 784 FY 2017/2018 budget for maintenance of levees improved by TRLIA and concurs with the projected expenditures and has determined that the proposed levee maintenance budget adheres to the criteria outlined in the approved TRLIA Assessment District Engineer’s Report.

**Fiscal Impact:** Assessment revenues are collected by the County Treasurer on property tax bills and by TRLIA through direct billed assessments. These revenues are deposited into TRLIA’s Benefit Assessment District Fund No. 818, then transferred to RD 784 based on the amount reflected in the proposed RD784 FY 2016/2017 budget ($940,000).

Attachment: Proposed RD784 Budget FY 17/18
### Adopted RD784 Budget 2017-2018

<table>
<thead>
<tr>
<th>Revenue Sources</th>
<th>Input Amounts</th>
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<tbody>
<tr>
<td>TRLIA Assessment</td>
<td>$940,000.00</td>
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<tr>
<td>RD784 Assessment</td>
<td>$684,531.00</td>
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<tr>
<td>CSA 66</td>
<td>$100,000.00</td>
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<tr>
<td>Allocated Reserve Funds</td>
<td>$401,000.00</td>
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<td>Contracts</td>
<td>$15,000.00</td>
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<tr>
<td>Total Revenue</td>
<td>$2,140,531.00</td>
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<tr>
<td>Deficit</td>
<td>$(141,395.00)</td>
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</tbody>
</table>

**Total Budget** $2,281,926.00  
**Total Revenue** $2,140,531.00  
**Deficit** $(141,395.00)

<table>
<thead>
<tr>
<th>Chart of Accounts</th>
<th>Direct Expenses</th>
<th>Employee Salaries &amp; Fringe</th>
<th>FY 2017-2018 Budget</th>
<th>70%</th>
<th>30%</th>
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<tr>
<td>1498 Payroll Clearing</td>
<td>Net Salary &amp; (Payroll Processing Fee) Per Check Run</td>
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<td>Pump Station Maintenance and Repairs</td>
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<td>2022</td>
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<td>(Job) Contract Fencing/Gates - Urban Levees- Emerg.Rep.</td>
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<td><strong>Rural Levee Maintenance and Repair</strong></td>
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June 6, 2017

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director
       Doug Handen, Construction Manager
SUBJECT: Bear River Levee Setback Area
         Two-year Extension of Maintenance and Monitoring of the Bear River
         Setback Restoration Area - River Partners Contract Amendment 5

Recommended Action:
Approve a $48,193.87 contract amendment with River Partners for additional two years of
maintenance and management services for the Bear River Setback Restoration area and authorize
Executive Director to sign and execute upon review of General Counsel.

Background:
TRLIA entered into an agreement with River Partners, on September 12, 2006, to construct the
Bear River Restoration Area. The agreement included four phases of work and was followed by
four contract amendments for extended maintenance and monitoring. Amendment 4 of the
agreement included Monitoring and Maintenance of the Restoration Area for the time period of
March 2014 through February 2017.

The establishment of the Bear River Setback area and 10-year monitoring and maintenance was
conducted in accordance with the conditions provided to TRLIA under the California
Endangered Species Act, Section 2081 Permit, and the U.S. Army Corps of Engineers, Section
404 of the Clean Water Act, and the Biological Opinion for this project. The long term care
requirement of the 404 permit is still pending to be completed.

Pending conditions of the Corps 404 permit are for TRLIA:
1. To establish an endowment for the long term maintenance of the Bear River Restoration
   Area. Once established the endowment after 2 to 3 years (dependent on interest rate)
   would be able to provide continuous yearly funding for the long term maintenance. In
   2006 TRLIA estimated the establishment cost of the Bear endowment to be
   approximately $2.1 million. In 2009 TRLIA placed into a TRLIA trust fund this amount
   of money for the pending Bear River endowment.
2. Obtain a State approved third party non-profit land manager. TRLIA has identified the
   Sacramento Valley Conservancy (SVC) to be this third party manager.
3. Place a Conservation Easement on the Bear River Setback Area. To date this condition has been impossible to achieve due to conflicts between Ecological and Flood Control easement requirements. The property is within the floodway so flood agencies require flood easement requirements to be superior to the 404 permit Conservation Easement requirements. The 404 permit Conservation Easement would require Ecological easement requirements to be superior to flood easement requirements. TRLIA recently crafted Conservation Easement language which creatively satisfies both flood and ecological conditions. This creative Conservation Easement is now under review by the regulatory agencies for approval.

Discussion:
Once the Conservation Easement language is approved, TRLIA will be in the position to complete all permit conditions by turning over the long term care responsibilities to SVC. TRLIA would use the money in the TRLIA trust fund and establish the endowment for SVC to use. It is anticipated that it will take at least two more years before SVC will be managing the Bear Setback Area. Thus, TRLIA still has the requirement to maintain the Bear Setback Area.

TRLIA’s proposed interim solution is to continue to use River Partners to manage and monitor the property per conditions of the state and federal permits. River Partners has just completed ten years of maintenance and monitoring of the Bear River Restoration Area. The 404 Permit and incidental take authorization include the following maintenance and monitoring requirements:

- **Years 1-3**: irrigate and maintain plantings, vegetation and hydrology monitoring, weeding, reseeding/replanting if necessary, mowing grassland area, debris and trash removal and other maintenance, documentation and reporting

- **Years 4-10**: vegetation and hydrology monitoring, weeding, reseeding/replanting if necessary, mowing grassland area, debris and trash removal and other maintenance, documentation and reporting

- **Year 10+**: mowing grassland area, debris and trash removal and other maintenance

River Partners has provided the attached proposal in the amount of $48,193.87 to cover the permit requirements for a period of two years including requirements of the permit for the time period exceeding the ten years subsequent to completion. The maintenance and management of the Bear Setback Area for this time period is approximately half the cost per year as the prior year numbers 8, 9, and 10. Costs for years 10+ include only maintenance activities including mowing, trash removal, weed abatement for invasive species, and sedimentation reduction measures. Costs no longer include mitigation reporting or monitoring as in prior years.

**Fiscal Impact:**
Local prior year funds will be used for this work. Examples of local Funding Sources are those local funds that came from state Prop 13 reimbursements, and developer advance funding used to cash flow TRLIA’s levee improvement work prior to the EIP Projects and the Yuba Levee Financing Authority Joint Financing.
Summary of Agreements with River Partners related to the Bear River Restoration Area:

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**Attachments:**
1. Contract Amendment 5
FIFTH AMENDMENT
TO
AGREEMENT BETWEEN
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
AND RIVER PARTNERS

THIS FIFTH AMENDATORY AGREEMENT is made and entered into this ______ day of ______ 2017, by
and between the THREE RIVERS LEVEE IMPROVEMENT AUTHORITY, a Joint Powers Authority,
(“TRLIA”) and River Partners (“CONTRACTOR”).

RECITALS:

WHEREAS, TRLIA and CONTRACTOR entered into an agreement to provide Professional Services
dated September 12, 2006 (“AGREEMENT”);

WHEREAS, Article C.24 of the AGREEMENT, states that modifications or amendments to the terms of
the AGREEMENT shall be in writing and executed by both parties;

WHEREAS, TRLIA and CONTRACTOR desire to amend the AGREEMENT.

NOW, THEREFORE, TRLIA and CONTRACTOR agree as follows:

1. Amendment to Agreement. The Professional Services Agreement is hereby amended as follows:

   1.1 The scope of services (Attachment A to the Agreement for Professional Services
   between TRLIA and River Partners, dated September 12, 2006) is amended to expand the
   scope of work as described in attached Exhibit A dated June 2017, to address the
   continuation of management and monitoring services on the Bear River setback property.

   1.2 The payment, budget, and not-to-exceed amounts (Professional Services Agreement
   Attachment C) are amended to include the additional amount of $48,193.87 for a total
   contract amount of $4,931,118.87.

   1.3 The termination date is extended to May 31, 2019.

   All other terms and conditions contained in the Agreement shall remain in full force and effect.

This AMENDED AGREEMENT is hereby executed on this ______ day of ______ 2017.

THREE RIVERS LEVEE
IMPROVEMENT AUTHORITY

BY: ______________________
    Paul G. Brunner
    Executive Director

CONTRACTOR

BY: ______________________
    John Carlon, President, River Partners

ATTEST:
DONNA STOTLEMEYER
SECRETARY

APPROVED AS TO FORM:

________________________________
Andrea Clark, General Counsel, TRLIA
Exhibit A  
Scope of Services- June 2017

River Partners shall furnish all labor, materials, equipment and services for maintaining the 639 acres of riparian and upland habitats and mitigation features associated with the Bear River Setback Levee Project located south of Marysville, California. Maintenance activities will occur for the period of June 1, 2017 to May 31, 2019.

Task 1: **Maintenance of Management Units**

Maintenance activities are defined for the following management units within the Bear River Setback Area to ensure the proper hydraulic functioning of the setback area; maintain high-quality habitat values consistent with regulatory and resource agency agreements; and meet requirements for protecting mitigation features:

1) Riparian Restoration Areas  
2) Mitigation Areas  
3) Floodplain Swale and Adjacent Floodplain  
4) Low Hydraulic Roughness Areas

All wages for covered work onsite will be paid under the Landscape Maintenance Laborer determination issued by the Department of Industrial Relations.

The network of roads across all four management units will be mowed to maintain vehicle clearance and reduce weeds. The road edges will be spot-sprayed to reduce weeds, with a focus on aggressive, non-native invasive weed species.

All trash and debris shall be removed from the floodplain swale. Natural debris shall be evaluated to determine if it creates a hazard or inhibits flood conveyance. Removed trash and debris will be transported to the dump.

The floodplain swale may develop dense stands of cottonwood and willow seedlings that may trap sediments that may eventually alter the drainage of the swale. Therefore, some routine maintenance of the swale may be necessary. Routine maintenance will be restricted to minor activities to remove debris and fish-passage barriers, such as beaver dams and sediment-trapping vegetation from the swale.

**Total Cost**

Management: $7,692.42  
Maintenance: $40,501.45

Total: $48,193.87
June 6, 2017

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director
SUBJECT: Approve Amendment 22 to GEI Contract for Environmental Services for the WPIC 200-Year Standard Project and Feather River Setback Conservation Bank

**Recommended Action:**
Approve Amendment 22 to the existing contract with GEI for additional Professional Services, to provide construction and post construction biological monitoring for the Western Pacific Interceptor Canal (WPIC) 200-Year Standard Project; to perform regulatory consultations, preconstruction surveys, and construction monitoring for the Feather River Setback Conservation Bank Project (FRSCB Project); and authorize the Executive Director to negotiate, sign and execute the final amendment upon review by General Counsel.

**Discussion:**
Biological monitoring and reporting before, during, and after construction of the WPIC Project is required as part of the commitments made by TRLIA in the Final IS/MND, Mitigation and Monitoring Plan, and as required by environmental permits received from the regulating agencies. This work was previously included in the scope and budget of Amendment 19. However, that scope and budget assumed a single year of construction. Due to delays in securing Section 408 permission from the USACE, construction of the WPIC Project is occurring over two seasons: 2016 and 2017. To this end, Amendment 22 will provide additional budget ($129,592) for GEI and its sub-consultants to perform required biological monitoring for the second construction season.

Environmental services for the FRSCB Project were previously performed by GEI through a sub-consultant agreement with AECOM. The AECOM contract expired in December 2016 and is not being renewed. Therefore, the GEI contract requires amendment to include the scope of work previously being performed through the AECOM sub-consultant agreement. Additionally, preconstruction surveys and construction monitoring were not included in previous AECOM or GEI contracts and are required to comply with commitments made under CEQA and in anticipated regulatory permits. Therefore, the GEI contract requires amendment to incorporate this work and represents a transfer of budget and an expansion of scope within the previous budget ($49,512).

Amendment 22, attached, is authorization to accomplish the efforts described above. It increases GEI’s current contract by $179,104 for a total contract of $24,388,975. Greater detail on efforts
and costs is described in GEI letter dated May 25, 2017 (Exhibits A of the attached Amendment 22).

**Fiscal Impact:**
This amendment would increase the GEI contract by an amount not to exceed $179,104 for services on a time and expenses basis, to a maximum amount not exceeding a total contract of $24,438,487. GEI is using 2014 GEI rates; with 2013 GEI rates for very senior staff. GEI will also waive any mark up on sub-consultants with this amendment. The WPIC work would be accomplished under the UYLIP EIP funding agreement using State funds (70% state share). The FRSCB work would be accomplished under the FESSRO funding agreement using State funds (100% state share).

ATTACHMENT
1. Amendment No. 22 (with Exhibit A)
AMENDMENT NO. 22

AGREEMENT FOR PROFESSIONAL SERVICES
FOR
PHASE 4 FEATHER RIVER LEVEE REPAIRS
BETWEEN
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AND
BOOKMAN-EDMONSTON/GEI CONSULTANTS

THIS 22nd AMENDMENT TO AGREEMENT is made effective _________________,
by and between Three Rivers Levee Improvement Authority ("TRLIA") and Bookman-
Edmonston/GEI Consultants, a division of GEI Consultants, Inc. ("Contractor"), who
agree as follows:

1. Recitals. This Amendment is made with reference to the following background
recitals:

1.1. Effective December 13, 2005, the parties entered into the Agreement for
Professional Services relating to TRLIA’s Phase 4 Feather River Levee
project with a contract value of $1,439,400.

1.2. Effective April 25, 2006, the parties entered into Amendment No. 1 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $3,082,240 for a total contract
value of $4,521,640.

1.3. Effective June 27, 2006, the parties entered into Amendment No. 2 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $32,700 for a total contract value
of $4,554,340.

1.4. Effective October 30, 2006, the parties entered into Amendment No. 3 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $262,500 for a total contract value
of $4,816,840.

1.5. Effective January 16, 2007, the parties entered into Amendment No. 4 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $115,000 for a total contract value
of $4,931,840.

1.6. Effective April 3, 2007, the parties entered into Amendment No. 5 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Setback Levee design in the amount of $5,860,244 for a total contract
value of $10,792,084.

1.7. Effective September 18, 2007, the parties entered into Amendment No. 6 to
the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Setback Levee design in the amount of $1,963,660 for a total contract
value of $12,755,744.
1.8. Effective April 15, 2008, the parties entered into Amendment No. 7 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $636,300 for a total contract value of $13,392,044.

1.9. Effective June 17, 2008, the parties entered into Amendment No. 8 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $5,671,000 for a total contract value of $19,063,044.

1.10. Effective September 8, 2008, the parties entered into Amendment No. 9 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $358,200 for a total contract value of $19,421,244.

1.11. Effective November 18, 2008, the parties entered into Amendment No. 10 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $536,764 for a total contract value of $19,958,008.

1.12. Effective July 9, 2009, the parties entered into Amendment No. 11 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $829,986 for a total contract value of $20,787,994.

1.13. Effective May 18, 2010, the parties entered into Amendment No. 12 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $860,948 for a total contract value of $21,648,942.

1.14. Effective May 17, 2011, the parties entered into Amendment No. 13 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $668,980 for a total contract value of $22,317,922 and to extend the contract termination date to December 31, 2013.

1.15. Effective December 18, 2012, the parties entered into Amendment No. 14 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $433,813 for a total contract value of $22,751,735.

1.16. Effective January 21, 2014, the parties entered into Amendment No. 15 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2014.

1.17. Effective February 17, 2015, the parties entered into Amendment No. 16 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2016.

1.18. Effective May 19, 2015, the parties entered into Amendment No. 17 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project in the amount of $311,270 for a total contract value of $23,063,005.
1.19. Effective November 17, 2015, the parties entered into Amendment No. 18 to the Agreement for Professional Services relating to the Feather River Levee Repair Project and Urban Levee Certification in the amount of $447,608 for a total contract value of $23,510,613.

1.20. Effective June 21, 2016, the parties entered into Amendment No. 19 to the Agreement for Professional Services relating to the Feather River Levee Repair Project and Urban Levee Certification in the amount of $149,902 for a total contract value of $23,660,515.

1.21. Effective September 20, 2016, the parties entered into Amendment No. 20 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2018.

1.22. Effective February 28, 2017, the parties entered into Amendment No. 21 to the Agreement for Professional Services relating to Goldfields 200-Year Project in the amount of $598,868 for a total contract of $24,259,383. The parties now desire to amend the Professional Services Agreement to add additional tasks and increase the contract budget.

2. Twenty Second Amendment to Agreement. The Professional Services Agreement is hereby amended as follows:

2.1. The scope of services (Attachment A to the Agreement for Professional Services between TRLIA and B-E/GEI, dated December 13, 2005) is amended to expand the scope of work as described by letter dated May 25, 2017 (Exhibit A) to address additional budget required to support a second construction year for the WPIC 200-Year Standard Project and services for the Feather River Setback Conservation Bank.

2.2. The payment, budget, and not-to-exceed amounts (Professional Services Agreement, dated December 13, 2005, Attachment B) are amended by the attached Exhibit A to include the additional amount of $179,104 for a total contract of $24,438,487.

3. No Effect on Other Provisions. Except for the amendments in Section 2, the remaining provisions of the Professional Services Agreement shall be unaffected and remain in full force and effect.
IN WITNESS WHEREOF, the parties hereto have executed this Agreement on

THREE RIVERS LEVEE IMPROVEMENT
AUTHORITY OF YUBA COUNTY

BOOKMAN-EDMONSTON,
A DIVISION OF GEI
CONSULTANTS, INC.

Paul G. Brunner
Executive Director

Stephen Verigin
Senior Vice President

ATTEST:
DONNA STOTTLEMEYER
SECRETARY, THREE RIVERS

APPROVED AS TO FORM:
ANDREA P. CLARK
GENERAL COUNSEL, TRLIA
May 25, 2017

Mr. Paul Brunner, Executive Director
Three Rivers Levee Improvement Authority
1114 Yuba Street, Suite 218
Marysville, CA 95901

Re: Agreement for Professional Services on Three Rivers Levee Improvement Authority’s Phase 4 Feather River Levee Repair Project Contract – Request for Amendment No. 22, Continuing WPIC and FRSCB Environmental Services

Dear Mr. Brunner:

The purpose of this letter is to present a proposed scope of work and budget to complete construction-related biological services supporting TRLIA’s Western Pacific Interceptor Canal 200-Year Standard Project (WPIC project) and to provide biological services supporting the Feather River Setback Conservation Bank Project (FRSCB project).

Environmental tasks described below for the WPIC project include those required to complete biological monitoring and reporting during and immediately following project construction to fulfill regulatory permit requirements. These tasks are a continuation of those currently being implemented by GEI under the existing agreement between TRLIA and GEI. Additional funds are necessary to complete biological construction monitoring and reporting because construction was anticipated to be completed in 2016, and remaining funds carried forward into 2017 for this task are insufficient to cover efforts through construction completion now anticipated for late 2017.

Environmental tasks described below for the FRSCB project include those required to complete consultation with specified regulatory agencies and obtain authorizations. They also include biological pre-construction surveys, construction monitoring, and reporting necessary to fulfill mitigation requirements and regulatory permit conditions. The budget developed is based on the current anticipated 2018 construction completion date. No post-construction biological monitoring is included, because such services are anticipated to be provided by the restoration contractor, River Partners. Environmental services for this project were previously covered under TRLIA’s contract with AECOM, which expired December 31, 2016.

The cost estimates for all tasks are included in Attachment 1. In summary, we estimate that a net budget increase of $179,104 ($129,592 for the WPIC project and $49,512 for the FRSCB project) is needed to complete the tasks described below. Funds associated
with the FRSCB project do not exceed those that remained available when the AECOM contract expired; the FRSCB budget represents reallocation to GEI of these remaining funds that were previously authorized under Amendment 8 of TRLIA’s contract with AECOM.

WPIC and FRSCB project tasks will continue to be managed by Anne King, under Phil Dunn’s supervision. GEI has estimated the work and budget required through December 2017 for WPIC construction activities and December 2018 for FRSCB restoration activities.

The following scope of services includes augmentation of WPIC project Tasks 6 and 7, as previously described in Amendment No. 19, and three new tasks for the FRSCB project.

**WPIC Project**

**Task 6: Project Management**

Implementing services described in this amendment requires time for associated management activities, including maintaining close communication with TRLIA and other project team members, attending meetings and calls, managing environmental schedules and budgets, reviewing products prepared by other project team members, and ensuring proper QA/QC of GEI deliverables.

**Task 7: Construction-Related Biological Services**

GEI will continue to provide oversight of biological services associated with project construction. Field staff will primarily be provided by GEI, with minor support from one AECOM biologist with experience on the project. The GEI team will coordinate closely with TRLIA’s construction manager and the contractor regarding proper installation, monitoring, and maintenance of avoidance and minimization measures. Biologists will conduct regular monitoring visits to verify implementation of biological resource protection measures and conduct surveys and monitoring required by regulatory permits. A monitoring biologist will be onsite daily during initial ground-disturbing activities, and full-time monitoring will be provided during activities with the greatest potential to result in take of giant garter snake or project-related failure of active bird nests. After initial ground disturbance is completed, biologists will monitor construction activities up to 3 days per week, until active bird nests are no longer present near active construction areas. After this time, bi-weekly or weekly compliance monitoring visits will be conducted, depending on project activities. In addition to agency submittals specifically required by the regulatory permits (see deliverables listed below), GEI will provide agency staff with regular updates via email, memoranda, and/or letter reports on construction status and compliance with impact avoidance and minimization measures.

**Deliverables:**
- Eight monthly compliance reports (May through December 2017)
- Annual compliance report (October 2017)
- Project completion report (January 2018)
FRSCB Project

Task 1: Project Management
Implementing services described in this amendment requires time for associated management activities, including maintaining close communication with TRLIA and other project team members, attending meetings and calls, managing environmental schedules and budgets, and ensuring proper QA/QC of GEI deliverables.

Task 2: Agency Consultation
GEI will continue to support Section 7 consultation between the U.S. Army Corps of Engineers and U.S. Fish and Wildlife Service for restoration and management activities. GEI also will support TRLIA and Sacramento Valley Conservancy efforts to gain agency approval of the Bank Enabling Instrument.

Task 3: Construction-Related Biological Services
GEI biologists will conduct pre-construction nesting bird surveys and coordinate with River Partners to ensure required biological avoidance and minimization measures are properly installed, monitored, and maintained. Biologists will also be available to monitor active bird nests to ensure restoration activities do not result in nest failure. In addition to the project completion report required under the Streambed Alteration Agreement, GEI will provide agency staff with regular updates via email, memoranda, and/or letter reports on construction status and compliance with impact avoidance and minimization measures.

Deliverable:
- Project completion report (January 2019)

We propose using our existing rate schedules to perform work under this amendment. For the WPIC project tasks, GEI will use 2013 rates. For the FRSCB project tasks, GEI will use 2013 rates for Grades 8-10 and 2014 rates for Grades 1-7 and administrative staff, with no further increase in 2018. In addition, GEI has reduced the mark-up on any subcontracts and other direct project expenses to 0% for this amendment. The GEI 2013 and 2014 fee schedules, with noted adjustments, are provided as Attachments 2 and 3.

The scope and budget contained herein represent our best estimate at this time to perform the activities discussed above. In the event that an unforeseen task not included in this scope of work exceeds the hours provided in the scope and budget, GEI will communicate the changes to TRLIA and develop a scope and budget for the additional work. With this said, we strive to conduct our work as efficiently as possible. We will manage our efforts and strive to keep actual costs under the approved budget.

As always, we are pleased with the opportunity to continue working with you and your staff on this vitally important project. Please call me or Phil Dunn if you have any questions.
Sincerely,
GEI Consultants,

[Signature]

Dan Wanket, P.M.P.
Contract Manager

Attachment 1: Cost Estimate Tables
Attachment 2: GEI 2013 Fee Schedule
Attachment 3: GEI 2014 Fee Schedule

CC: Claire Marie Turner (MBK Engineers)
    Alberto Pujol, Phil Dunn, and Anne King (GEI Consultants)
Attachment 1
Cost Estimate Tables
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Attachment 2
GEI 2013 Fee Schedule
FEE SCHEDULE

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<td>Senior Principal – Grade 10</td>
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Senior CADD Drafter and Designer           $ 118
CADD Drafter / Designer and Senior Technician $ 108
Technician, Word Processor, Administrative Staff $ 88
Office Aide                                $ 69

These rates are billed for both regular and overtime hours in all categories. Rates will increase up to 5% annually, at GEI’s option, for all contracts that extend beyond twelve (12) months after the date of the contract.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors, and other project expenses will be billed at cost plus a 1% service charge. Examples of such expenses ordinarily charged to projects are subconsultants; subconsultants, chemical laboratory charges, rented or leased field and laboratory equipment, outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state sales and use taxes and state taxes on GEI fees.

Billing Rates for Specialized Technical Computer Programs – Computer usage for specialized technical programs will be billed at a flat rate of $10.00 per hour in addition to the labor required to operate the computer.

Field and Laboratory Equipment Billing Rates - GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. Expendable supplies are billed at a unit rate.

Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

PAYMENT TERMS

Invoices will be submitted monthly or upon completion of a specified scope of service, as described in the accompanying contract (proposal, project, or agreement document that is signed and dated by GEI and CLIENT).

Payment is due upon receipt of the invoice. Interest will accrue at the rate of 1% of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date. All payments will be made by either check or electronic transfer to the address specified by GEI and will include reference to GEI’s invoice number.

Standard Fee Schedule 2013
Attachment 3
GEI 2014 Fee Schedule
FEE SCHEDULE

<table>
<thead>
<tr>
<th>Personnel Category</th>
<th>Hourly Billing Rate</th>
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<td>Senior CADD Drafter and Designer</td>
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<tr>
<td>CADD Drafter / Designer and Senior Technician</td>
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<td>Technician, Word Processor, Administrative Staff</td>
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<td>Office Aide</td>
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These rates are billed for both regular and overtime hours in all categories. Rates will increase up to 5% annually, at GEI's option, for all contracts that extend beyond twelve (12) months after the date of the contract. Rates for Deposition and Testimony are increased 1.5 times.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus a 10% service charge. Examples of such expenses ordinarily charged to projects are subconsultants; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state sales and use taxes and state taxes on GEI fees.

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Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

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Standard Fee Schedule 2014
June 6, 2017

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul G. Brunner, Executive Director

SUBJECT: Approve Amendment 20 to HDR Contract No. PH4 2016-01 for Construction Management Services for the Western Pacific Interceptor Canal 200-Year Standard Project

Recommended Action
Approve Amendment 20 to the existing contract with HDR for Construction Management (CM) Services for the Western Pacific Interceptor Canal (WPIC) 200-Year Standard Project, and authorize the Executive Director to negotiate, sign and execute the final amendment upon review by General Counsel.

Discussion
At the time of HDR’s Amendment 19, construction of the WPIC 200-Year Standard Project was scheduled to be completed in a single construction season. Therefore, HDR’s Amendment 19 provided budget for a single construction season of CM services. Construction of the project began in 2016, but due to delays in USACE issuing Section 408 permission, construction of the three cutoff walls was postponed to a second construction season (2017). Amendment 20 will provide expanded scope and budget for HDR and its sub-consultants to perform CM services for the 2017 construction season. In addition to these services, the amendment provides scope and budget to evaluate a seepage site that occurred during the early 2017 high water events. Depending on the results of this evaluation, additional construction (e.g., placement of fill) may be required. Lastly, the amendment will extend the contract until May 31, 2018.

Amendment 20, attached, is authorization to accomplish the efforts described above for 2017 construction season. It increases HDR’s current contract by $690,231 for a total contract amount of $13,332,778. Greater detail on efforts and costs is described in Exhibit A of the attached Amendment 20.

Fiscal Impact
This amendment would increase the HDR contract by an amount not to exceed $690,231 for services on a time and expenses basis, to a maximum amount not exceeding a total contract of $13,332,778. The work would be accomplished under the UYLIP EIP funding agreement using State funds (70% state share).

ATTACHMENT
1. Amendment No. 20 (with Exhibit A)
TWENTIETH AMENDMENT
TO
AGREEMENT FOR PROFESSIONAL SERVICES
BETWEEN
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
AND
HDR ENGINEERING, INC.

THIS TWENTIETH AMENDATORY AGREEMENT is made and entered into this ___ day of ___ 2017, by and between the Three Rivers Levee Improvement Authority, ("TRLIA"), a California Joint Powers Authority, and HDR Engineering, Inc. ("CONSULTANT").

WHEREAS, TRLIA and CONSULTANT entered into an agreement on December 13, 2005 to provide professional services for Engineering Design and Environmental Studies for Phase 4 Levee Repairs - Upper Yuba River, Continuation of Phase 2 Construction Management (2006), and FEMA Certification of Contract Work ("Agreement");

WHEREAS, a FIRST AMENDATORY AGREEMENT, executed February 14, 2006, increased the maximum not to exceed contract fee from $2,580,038 by $118,955 to $2,698,993; and

WHEREAS, a SECOND AMENDATORY AGREEMENT, executed March 7, 2006, increased the maximum not to exceed contract fee from $2,698,993 by $117,649 to $2,816,642; and

WHEREAS, a THIRD AMENDATORY AGREEMENT, executed August 8, 2006, increased the maximum not to exceed contract fee from $2,816,642 by $661,193 to $3,537,835; and

WHEREAS, a FOURTH AMENDATORY AGREEMENT, executed October 16, 2007, increased the maximum not to exceed contract fee from $3,537,835 by $280,000 to $3,817,835; and

WHEREAS, a FIFTH AMENDATORY AGREEMENT, executed August 5, 2008, increased the maximum not to exceed contract fee from $3,817,835 by $954,524 to $4,772,359; and

WHEREAS, a SIXTH AMENDATORY AGREEMENT, executed September 9, 2008, extended the time of services rendered to December 31, 2009; and

WHEREAS, a SEVENTH AMENDATORY AGREEMENT, executed May 12, 2009, increased the maximum not to exceed contract fee from $4,772,359 by $2,416,874 to $7,189,233 and extended the time of services rendered to December 31, 2010; and

WHEREAS, an EIGHTH AMENDATORY AGREEMENT, executed September 15, 2009 increased the maximum not to exceed contract fee from $7,189,233 by $155,846 to $7,345,079; and

WHEREAS, a NINTH AMENDATORY AGREEMENT, executed July 20, 2010 increased the maximum not to exceed contract fee from $7,345,079 by $1,473,064 to $8,818,143; and
WHEREAS, a TENTH AMENDATORY AGREEMENT, executed August 12, 2011 increased the maximum not to exceed contract fee from $8,818,143 by $162,879 to $8,981,022;
and

WHEREAS, an ELEVENTH AMENDATORY AGREEMENT, executed October 18, 2011 increased the maximum not to exceed contract fee from $8,981,022 by $636,668 to $9,617,690;
and

WHEREAS, a TWELFTH AMENDATORY AGREEMENT, executed February 21, 2012 increased the maximum not to exceed contract fee from $9,617,690 by $50,000 to $9,667,690 and extended the contract date to December 31, 2013;
and

WHEREAS, a THIRTEENTH AMENDATORY AGREEMENT, executed September 18, 2012 increased the maximum not to exceed contract fee from $9,667,690 by $59,762 to $9,727,452;
and

WHEREAS, a FOURTEENTH AMENDATORY AGREEMENT, executed October 24, 2012 increased the maximum not to exceed contract fee from $9,727,452 by $29,873 to $9,757,325;
and

WHEREAS, a FIFTEENTH AMENDATORY AGREEMENT, executed May 7, 2013 increased the maximum not to exceed contract fee from $9,757,325 by $625,084 to $10,382,409;
and

WHEREAS, a SIXTEENTH AMENDATORY AGREEMENT, executed January 21, 2014 extended the Termination Date of the Agreement to December 31, 2014;

And

WHEREAS, a SEVENTEENTH AMENDATORY AGREEMENT, executed October 21, 2014 increased the maximum not to exceed contract fee by $726,777 from $10,382,409 to $11,109,186, and extended the Termination Date of the Agreement to December 31, 2015; and

WHEREAS, a EIGHTEENTH AMENDATORY AGREEMENT, executed December 15th, 2015 extended the Termination Date of the Agreement to December 31, 2017;

And

WHEREAS, a NINETEENTH AMENDATORY AGREEMENT, executed April 19th, 2016 increased the maximum not to exceed contract fee by $1,533,361 from $11,109,186 to $12,642,547;
And

WHEREAS, Article C.24 of the AGREEMENT, states that modifications or amendments to the terms of the AGREEMENT shall be in writing and executed by both parties;

And

WHEREAS, TRLIA and CONSULTANT desire to amend Agreement;

NOW, THEREFORE, TRLIA and CONSULTANT agree as follows:

1. Exhibit A of AGREEMENT shall be amended to perform those additional services as described in Exhibit A of this TWENTIETH AMENDMENT.

2. ATTACHMENT B, Provision B.1 of the Agreement shall be revised to increase the maximum not to exceed contract fee by $690,231 from $12,642,547 to $13,332,778.
3. Article 2 of the AGREEMENT shall be amended to extend the Termination Date of the Agreement to May 31, 2018.

4. ATTACHMENT A, Provision A.2 of the Agreement shall be revised to increase the time of services rendered to May 31, 2018.

All other terms and conditions contained in AGREEMENT shall remain in full force and effect.

This Amended agreement is hereby executed on this ___ day of ______________, 2017.

THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

Paul G. Brunner
Executive Director

HDR ENGINEERING, INC.

Holly Kennedy
Vice President

ATTEST:
DONNA STOTTERMeyer
CLERK OF THE BOARD

APPROVED AS TO FORM:

ANDREA P. CLARK
GENERAL COUNSEL
Change Order No. 1

Date: Wednesday, May 31, 2017

Project: Three Rivers Levee Improvement Authority – Western Pacific Interceptor Canal: Western Levee Improvement Project Construction

To: Paul Brunner – Three Rivers Levee Improvement Authority
    Care of Claire Marie Turner – MBK Engineers

From: Garrett Harris, PE, GE

Subject: Amendment No. 19 Contract Fee Amendment

Dear Mr. Brunner,

HDR is requesting amendment to its contract to provide additional scope and fee for construction management services for the WPIC 200-Year Standard Project (WPIC Project). Amendment 19 provided a fee of $1,963,348.42 for construction management services assuming a single construction season for the WPIC Project. As of the date of this letter, HDR has invoiced $527,861.98 for the efforts primarily associated with the 2016 construction season. As the project continues for a second construction season, HDR’s remaining (available) fee is $1,005,499.02. This fee is allocated for tasks primarily associated with geotechnical trench logging, post construction surveying, remaining landside fills, and post-construction documentation. HDR requests an additional fee of $690,231 under Amendment No. 20 to provide continued construction management services.

2016 Construction Season

The 2016 construction season began on July 28 and continued until November 18 for a total of 65 working days. During this period the contractor worked 10 hours per day constructing the landside toe road and stability berms associated with Schedule A. More specifically, the contractor imported and placed materials in the area along the landside toe between project Station 190+28 and 308+30 feet. During this period, HDR reviewed 14 submittals and responded to 9 request-for-information (RFIs) for the project, in addition to, 44 weekly progress meetings, and 8 team meetings.

HDR originally assumed 32 weeks, 6 days per week, at 10 hours per day to complete the WPIC construction. This included project management, on-site residential engineer, inspectors, design engineering support for submittals and enquiries, and subconsultant’s associated with quality assurance (QA) services. However, despite 2016 construction being limited to the landside levee toe fills (part of Schedule B), the contractor spent 65 of the originally estimated 192 days on site. HDR had assumed that landside fill work would be completed in 24 days.

Due to the prolonged period of construction activities, HDR’s geotechnical QA subconsultant was required to be on site for additional hours and perform additional density testing of fill materials as project specifications require a minimum number of QA density testing be
performed per day of engineered fill placement. Additionally, the prolonged period of construction also meant HDR was required to be on site for additional hours. It should be noted that in an effort to save project fees, HDR utilized a single person to perform the resident engineer and inspection roles.

Contractors proposed schedule
As presented in the contractor’s schedule, the current WPIC project will be completed this construction season. Furthermore, the schedule presents that several activities will be active simultaneously in order to achieve this schedule. Based upon the contractor’s current project schedule timeline the landslide fills, Schedule B items, will be completed within the same period as the cut-off-walls, Schedules C and D.

More specifically, the 2017 timeline presents 179 days of construction activities. As of the date of this letter, it is our understanding that these days are 10 hours per day for 5-days per week with Saturdays being active only during the 9 weeks of cut-off-wall installation. This represents an additional 52 days of construction not envisioned in Amendment 19.

Additional Scope of Work
During the WPIC 2016 construction activities and subsequent 2016 winter, two items were identified for addition to the WPIC construction scope of work. These items included a permanent cattle fence between Stations 216+50 and 256+00, and the investigation of observed water activity along the landslide toe near Station 2+00. Construction management services for these two activities are estimated to be:

- Permanent Cattle Fencing - $7,500
- Water Activity along Landside Toe - $18,000

Fee Increase Estimate
Based on the prolonged 2016 construction, remaining work to be completed in 2017, and the additional scope of work, HDR requests that the HDR agreement with TRLIA be amended to provide an increase of $690,231. This fee increase includes fees from HDR and its associated subcontractors, including $157,865 and $5,000 for Geotechnical QA Inspection and Surveying Services, respectively. This increase will bring our contract fee amount to a total of $13,332,778.

Please contact Garrett Harris with any questions or comments.

CC: Doug Handen - handenco@pacbell.net
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**ENGINEERING DESIGN SERVICES: Western Pacific Interceptor Canal**

- Total Labor: 0
- Sub-Consultants: 0
- Expenses: 0

**CONSTRUCTION SERVICES**

- Total Labor: 0
- Sub-Consultants: 0
- Expenses: 0

**CONSTRUCTION SERVICES (Additional Scope)**

- Total Labor: 0
- Sub-Consultants: 0
- Expenses: 0

**SURVEY TOTAL EFFORT**

- Total Labor: 0
- Sub-Consultants: 0
- Expenses: 0

**TOTAL EFFORT**

- Total Labor: 0
- Sub-Consultants: 0
- Expenses: 0

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HDR Engineering Construction Management Services
Three River Levee Improvement Authority
HDR FCE Summary – Amendment 20
Item 10A
May 19, 2017 CVFBR Meeting

(Paul Brunner, Executive Director)

The Goldie L.
TRILIA's Levee Improvement Projects in

TRILIA

Improve

Three Rivers Levee Authority (TRILIA)
CVFPB Bi-Weekly Progress Update since 4-24-2015

- Year Goldfields Levee Project
- Finalizing UFR Agreement with DWR to complete 200-yr Project this summer
- Completing ERIP UYLIP/WPIC
- Protection Project
- 10-yr Interim 100-yr Flood Complete
- Goldfields
- May 2016
- Protection adopted in
- Towards 200-yr year Flood
- Adequate Progress Finding
Goldfields as High Ground

Federal and State Reliance on

Flanking of the levee system ground will prevent assume that the High both the SFC and SRFCP

human activities embankments caused by of dredge tailings

The goldfields is comprised

River

the south side of the Yuba ending at High ground on Federal/State MOU as described in the 1953 Flood Control (SFC) and State Plan of (SRFC) and State Project Flood Control Project

The Sacramento River

Three Rivers
Goldfields is NO Longer High Ground

- County and Flood South Yuba system can be flanked by the Federal/State levee.
- Flow: Year flow, or the 200-YR authorized flow, the 100-YR flow, the 1997 Ground for the 1997 flow, the 1997 Ground for the 1997 flow, no longer serve as high that the Goldfields no
- TRIL Hydraulics and Geo...
The Replacement Levee is not an addition to the SRFCP/SRFC but remediation for an existing Goldfield and redirects flows to the Yuba River Floodway. The Replacement Levee would be about 3.6 miles long and intercept all flows through the Ground. The proposal is to replace the current deteriorating SRFCP High Ground Project feature (Goldfields) with a Replacement Levee south of the Goldfields that terminates at natural high.

**LEVEE PROJECT**

**TRILA 200-yr Goldfields**
order for DWR to fund construction and land acquisition as part of the SPC is needed by December 2018 in order to ensure the project is recognized as part of the SPC is through Section 408 CEA/NEPA activities while TRIL offers support, and the Federal Section 408 process.

DWR has agreed to fund design, real estate, and acquisition for the Goldfield's 200-Yr Project, it needs to be a feature of the SPC Agreement and DWR-UFRR Requirements.
Adequate Progress is defined as:

TRILIA 65% design completed by December 2018

USACE/TRILIA Draft EIS Public Meeting held by December 2018

(Done)

Establishment of the Safety Assurance Review Panel by June 2017

TRILIA to make this request by March 30, 2017 to the CVFPP (Done)

TRILIA Environmental Work (e.g., Section 106, NEPA).

USACE. This initial request is for the USACE to begin the 408

CVFPP Requesting they initiate the 408 Authorization Process with the

TRILIA's Submission of Section 408 Authorization Request Letter to the

TRINIE RIVERS
soon as possible

Section 408 Initiation Letter to USACE as
TRILIA requests that the CYFP send the

Progress Goals established by DWR
immediately to meet the Adequate
TRILIA needs to begin USACE coordination

Next Steps