STATE OF COLORADO

Colorado Water Conservation Board

Department of Natural Resources

1313 Sherman Street, Room 721 Denver, Colorado 80203 Phone: (303) 866-3441 Fax: (303) 866-4474 www.cwcb.state.co.us 10° COLOR 10° COLOR

March 5, 2014

City of Trinidad c/o Mr. Tom Acre PO Box 880 Trinidad, CO 81082 tom.acre@trinidad.co.gov VIA EMAIL

RE: EAP Inundation Mapping Grant Fisher Peak Detention Dam FPC-1 & FPC-2; Pinon Canyon Detention Dam (DAMID: 190104, 190105, 190125)

Dear Tom:

Congratulations on receiving CWCB grant funds to help offset the cost in preparing a dam breach modeling study and flood inundation mapping for Fisher Peak Detention Dams FPC-1 & FPC-2, and the Pinon Canyon Detention Dam. This letter is to transmit the signed Purchase Order for the EAP Inundation Mapping Grant. With the signed Purchase Order you are eligible to begin work on the projects. Please note that all work must be coordinated with, and be at the direction of, the State Engineer's Office (SEO) Dam Safety Branch. Please contact Mark Perry, SEO Dam Safety Engineer, at (719) 542-3368 for any questions related to the work product.

Once the projects have received final approval from the State Engineer's office, please send your invoice and a copy of the approved final deliverables to my attention. The invoice will be paid at 56% of eligible project cost, up to \$14,000.

If you have any questions on the financing of these projects please do not hesitate to give me a call at (303) 866-3441 x 3234, or jonathan.hernandez@state.co.us. I wish you much success in your projects.

Sincerely,

Jonathan Hernandez, P.E. Project Manager

- Encl: Purchase Order Fish Creek and Long Lake Dams EAP Inundation Mapping Grant Grant Scope of Work
- ec: Mark Perry, SEO Dam Safety Branch (<u>mark.perry@state.co.us</u>) John Batka, SEO Dam Safety Branch (<u>john.batka@state.co.us</u>)

Jonathan

| 1313 SHERMAN STREET, ROOM 721 DENVER, CO 80203 Buyer: ALLAN SMITH | DATE: 03-03-14 IMPORTANT The PO# and Line # mus appear on all invoices, packing slips, cartons and correspondence ACC: 02-28-14 | | P.O. # OE State Award | PURCHASE ORDER STATE OF COLORADO PDA 1400000088 Page# 01 |
|---|---|---|---|---|
| FEIN 846000625 Phone: - | _ | | BID # | |
| Vendor Contact: GOVERNMENT Purchase Requisition #: | | Invoice in Triplicate To: DIVISION OF WATER CONSERVATION | | |
| V CITY OF TRINIDAD | | 1313 SHERMAN STREET, ROOM 721 DENVER, CO 80203 | | |
| N D PO BOX 880 O TRINIDAD CO 81082 | | 1.1.1 | be made by thi | s agency |
| INSTRUCTIONS TO VENDOR: 1. If for any reason, delivery of this order is delayed beyond the delivery/inst shown, please notify the agency contact named at the top left. (Right of car reserved in instances in which timely delivery is not made.) | Ship To: | 1313 S HI | N OF WATER CONSERVATION ERMAN STREET, ROOM 721 CO 80203 | |
| 2. All chemicals, equipment and materials must conform to the standards req 3. NOTE: Additional terms and conditions on reverse side. | | tallation Date: TINATION | 06-30-14 STATE PAYS NO FREIGHT | |
| SPECIAL INSTRUCTIONS: | | | | |

| LINE | COMMODITY/ITEM CODE | UNIT OF MEASUREMENT | QUANTITY | UNIT COST | TOTAL ITEM COST |
|------|------------------------|------------------------|----------|---------------------------------------|-----------------|
| | | 19.4 | | A A A A A A A A A A A A A A A A A A A | |

DOCUMENT TOTAL

1

FOR THE STATE OF COLORADO

Authorized Signature

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001 91843000000 \$14,000.00 SEV TAX GRANT-PERFORM A DAM BREACH MAP FOR 3DAMS-FISHER PEAK DETENTION DAM FPC-1&2,PINON CANYON DAM. PER SOW. CMS#66015.

\$14,000.00

Date

Purchase Order Terms and Conditions

1. Offer/Acceptance. If this purchase order ("PO") refers to vendor's bid or proposal, this PO is an ACCEPTANCE of vendor's OFFER TO SELL in accordance with the terms and conditions of the "solicitation" identified in vendor's bid or proposal. The solicitation includes an RFP, IFB, or any other form of order by buyer. If a bid or proposal is not referenced, this PO is an OFFER TO BUY, subject to vendor's acceptance, demonstrated by vendor's performance or written acceptance of this PO. Any COUNTER-OFFER TO SELL automatically CANCELS this PO, unless a change order is issued by buyer accepting a counter-offer. This PO shall supersede and control over any vendor form(s) or part(s) thereof included in or attached to any bid, proposal, offer, acknowledgment, or otherwise, in the event of inconsistencies or contradictions, regardless of any statement to the contrary in such form(s) or parts thereof. 2. Safety Information. All chemicals, equipment and materials proposed and/or used in the performance of this PO shall conform to the requirements of the Occupational Safety and Health Act of 1970. Vendor shall furnish all Material Safety Data Sheets (MSDS) for any regulated chemicals, equipment or hazardous materials in the time of delivery.

3. Changes. Vendor shall furnish products and/or services strictly in accordance with the specification: and price set forth for each item. This PO shall not be modified, superseded or otherwise altered, except in writing signed by purchasing agent and accepted by vendor. Each shipment received or service performed shall comply with the terms of this PO, notwithstanding invoice terms or acts of vendor to the contrary, unless this PO has been modified, superseded or otherwise altered in accordance with this section.

4. Delivery. Unless otherwise specified in the solicitation or this PO, delivery shall be FOB destination. Buyer is relying on the promised delivery date, installation, and/or service performance set forth in vendor's bid or proposal as material and basic to buyer's acceptance. If vendor fails to deliver or perform as and when promised, buyer, in its sole discretion, may cancel its order, or any part thereof, without prejudice to its other rights, return all or part of any shipment so made, and charge vendor with any loss or expense sustained as a result of such failure to deliver or perform as promised. Time is of the essence.

5. Intellectual Property. Any software, research, reports, studies, data, photographs, negatives or other documents, drawings or materials (collectively

"materials") delivered by vendor in performance of its

obligations under this PO shall be the exclusive property of buyer. Ownership rights shall include, but not be limited to, the right to copy, publish, display, transfer, prepare derivative works, or otherwise use the materials. Vendor shall comply with all applicable Cyber Security Policies of the State of Colorado (the "State"), or buyer, as applicable, and all confidentiality and non-disclosure agreements, security controls, and reporting requirements. 6. Quality. Buyer shall be the sole judge in determining "equals" with regard to quality, price and

6. Quality. Buyer shall be the sole judge in determining "equals" with regard to quality, price and performance. All products delivered shall be newly manufactured and the current model, unless otherwise specified.

7. Warranties. All provisions and remedies of the Colorado Uniform Commercial Code, CRS, Title 4 ("CUCC"), relating to implied and/or express warranties are incorporated herein, in addition to any warranties contained in this PO or the specifications.

8. Inspection and Acceptance. Final acceptance is contingent upon completion of all applicable inspection procedures. If products or services fail to meet any inspection requirements, buyer may exercise all of its rights, including those provided in the CUCC. Buyer shall have the right to inspect services provided under this PO at all reasonable times and places. "Services" as used in this section includes services performed or tangible material produced or delivered in the performance of services If any of the services do not conform to PO requirements, buyer may require vendor to perform the services again in conformity with PO requirements, without additional payment. When defects in the quality or quantity of service cannot be corrected by re-performance, buyer may (a) require vendor to take necessary action to ensure that future performance conforms to PO requirements. They ender the additional payment, when defects in the do not limit the remedies otherwise available in this PO, at law, or in equity.

9. Cash Discount. The cash discount period will start from the later of the date of receipt of acceptable invoice, or from date of receipt of acceptable products/services at the specified destination by an authorized buyer representative.

10. Taxes. Buyer and the State are exempt from all federal excise taxes under Chapter 32 of the Internal Revenue Code [No. 84-730123K] and from all State and local government sales and use taxes [CRS, Title 39, Article 26, Parts I and II] Such exemptions apply when materials are purchased for the benefit of State, except that in certain political subdivisions (e.g., City of Denver) vendor may be required to pay sales or use taxes even though the ultimate product or service is provided to buyer. Buyer shall not reimburse such sales or use taxes.

Buyer shall her remaine and so, or call amounts due within 45 days after receipt of products or services and a correct notice of amount due. Interest on the unpaid balance shall begin to accrue on the 46th day at the rate set forth in CRS §24-30-202(24) until paid in full. Interest shall not accrue if a good faith dispute exists as to buyer's obligation to pay all or a portion of the amount due. Vendor shall invoice buyer separately for interest on delinquent amounts due, referencing the delinquent payment, number of day's interest to be paid, and applicable interest rate.

12. Vendor Offset. [Not Applicable to Inter-governmental POs] Under CRS §24-30-202.4 (3.5), the State Controller may withhold payment under the State's vendor offset intercept system for debts owed to State agencies for: (a) unpaid child support debts or arrearages; (b) unpaid balances of tax, accrued interest, or other charges specified in CRS §39-21-101, et seq.; (c) unpaid loans due to the Student Loan Division of the Department of Higher Education, (d) amounts required to be paid to the Unemployment Compensation Fund, and (e) other unpaid debts owing to the State as a result of final agency determination or judicial action.

13. Assignment and Successors. Vendor shall not assign rights or delegate duties under this PO, or subcontract any part of the performance required under this PO, without the express, written consent of buyer. This PO shall inure to the benefit of and be binding upon vendor and buyer and their respective successors and assigns. Assignment of accounts receivable may be made only upon written notice furnished to buyer.

14. Indemnification. If any article sold or delivered under this PO is covered by a patent, copyright, trademark, or application therefore, vendor shall indemnify and hold harmless buyer from any and all loss, liability, cost, expenses and legal fees incurred on account of any claims, legal actions or judgments arising out of manufacture, sale or use of such article in violation or infringement of rights under such patent, copyright, trademark or application. If this PO is for services, vendor shall indemnify, save, and hold harmless buyer, its employees and agents, against any and all claims, damages, liability and court awards including costs, expenses, and attorney fees and related expenses, incurred as a result of any act or omission by vendor, or its employees, agents, subcontractors or assignees, arising out of or in connection with performance of services under this PO.

15. Independent Contractor. Vendor shall perform its duties hereunder as an independent contractor and not as an employee. Neither vendor nor any agent or employee of vendor shall be deemed to be an agent or employee of buyer. Vendor and its employees and agents are not entitled to unemployment insurance or workers compensation benefits through buyer and buyer shall not pay for or otherwise provide such coverage for vendor or any of its agents or employees. Unemployment insurance benefits will be available to vendor and its employees and agents only if coverage is made available by vendor or a third party. Vendor shall pay when due all applicable employment, income, and local head taxes incurred pursuant to this PO. Vendor shall not have authorization, express or implied, to bind buyer to any agreement, liability or understanding, except as expressly set forth herein. Vendor shall (a) provide and keep in force workers' compensation and unemployment compensation insurance in the amounts required by law, (b) provide proof thereof when requested by buyer, and (c) be solely responsible for its acts and those of its employees and agents.

 Communication. All communication concerning administration of this PO, prepared by vendor for buyer's use, shall be furnished solely to purchasing agent.
 Compliance. Vendor shall strictly comply with all applicable federal and state laws, rules, and

17. Compliance. vendor snall strictly comply with all applicable rederal and state laws, rules, and regulations in effect or hereafter established, including, without limitation, laws applicable to discrimination and unfair employment practices.

18. Insurance. Vendor shall obtain, and maintain, at all times during the term of this PO, insurance as specified in the solicitation, and provide proof of such coverage as requested by purchasing agent.
19. Termination Prior to Shipment. If vendor has not accepted this PO in writing, buyer may cancel this PO by written or oral notice to vendor prior to shipment of goods or commencement of services.
20. Termination for Cause. (a) If vendor refuses or fails to timely and properly perform any of its obligations under this PO with such diligence as will ensure its completion within the time specified herein, buyer may notify vendor in writing of non-performance and, if not corrected by vendor within the time specified in the notice, terminate vendor's right to proceed with the PO or such part thereof as to which there has been delay or a failure. Vendor shall continue performance of this PO to the extent not terminated and be liable for excess costs incurred by buyer in procuring similar goods or services elsewhere. Payment for completing services performed and accepted shall be at the price set forth in this PO. (b) Buyer may withhold amounts due to vendor's right to proceed under the CUCC or this clause, buyer determines for any reason that vendor was not in default or the delay was excusable, the rights and obligations of buyer and vendor shall be the same as if the notice of termination had been issued pursuant to termination under §21.

21. Termination in Public Interest. Buyer is entering into this PO for the purpose of carrying out the public policy of the State, as determined by its Governor, General Assembly, and Courts. If this PO ceases to further the public policy of the State, buyer, in its sole discretion, may terminate this PO in whole or in part and such termination shall not be deemed to be a breach of buyer's obligations hereunder. This section shall not apply to a termination for vendor's breach, which shall be governed by §20. Buyer shall give written notice of termination to vendor specifying the part of the PO terminated and when termination becomes effective. Upon receipt of notice of termination, vendor shall not incur further obligations except as necessary to mitigate costs of performance. For services or specially manufactured goods, buyer shall pay (a) reasonable settlement expenses, (b) the PO price or rate for supplies and services, and (d) a reasonable profit for the unaccepted work. For existing goods, buyer shall pay (e) reasonable settlement expenses, (f) the PO price for goods delivered and accepted, (c) reasonable costs incurred in preparation for delivery of the undelivered goods, and (h) a reasonable profit for the unaccepted work. For existing goods, buyer shall pay (e) reasonable costs incurred in preparation for delivery of the undelivered goods, and (h) a reasonable profit for the preparatory work. Buyer's termination liability under this section shall not exceed the total PO price plus a reasonable cost for settlement expenses. Vendor shall submit a termination proposal and reasonable cost for settlement, and received at a srequired by CRS §24-106-101, upon request of buyer.

22. PO Approval. This PO shall not be valid unless it is executed by purchasing agent. Buyer shall not be responsible or liable for products or services delivered or performed prior to proper execution hereof.

23. Fund Availability. Financial obligations of buyer payable after the current fiscal year are contingent upon funds for that purpose being appropriated, budgeted and otherwise made available. If this PO is funded in whole or in part with federal funds, this PO is subject to and contingent upon the continuing availability of federal funds for the purposes hereof. Buyer represents that it has set aside sufficient funds to make payment for goods delivered in a single installment, in accordance with the terms of this PO.

24. Choice of Law. State laws, rules and regulations shall be applied in the interpretation, execution, and enforcement of this PO. The CUCC shall govern this PO in the case of goods unless otherwise agreed in this PO. Any provision included or incorporated herein by reference which conflicts with such laws, rules, and regulations is null and void. Any provision incorporated herein by reference which purports to negate this or any other provision in this PO in whole or in part shall not be valid or enforceable or available in any action at law, whether by way of complaint, defense, or otherwise. Unless otherwise specified in the solicitation or this PO, venue for any judicial or administrative action arising out of or in connection with this PO shall be in Denver, Colorado. Vendor shall exhaust administrative remedies in CRS §24-109-106, prior to commencing any judicial action against buyer 25. Public Contracts for Services. [Not Applicable to offer, issuance, or sule of securities, investment advisory services, fund management services, sponsored projects, intergovernmental POs, or information technology services or products and services] Vendor certifies, warrants, and agrees that it does not knowingly employ or contract with an illegal alien who will perform work under this PO and will confirm the employment eligibility of all employees who are newly hired for employment in the United States to <u>perform work under this PO</u>, through participation in the E-Verify Program or the Department program established pursuant to CRS §8-17.5-102(5)(c), Vendor shall not knowingly employ or contract with an illegal alien to perform work under this PQ or enter into a contract or PO with a subcontractor that fails to certify to vendor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this PO. Vendor shall (a) not use E-Verify Program or Department program procedures to undertake pre-employment screening of job applicants during performance of this PO, (b) notify subcontractor and buyer within three days if vendor has actual knowledge that subcontractor is employing or contracting with an illegal alien for work under this PO, (c) terminate the subcontract if subcontractor does not stop employing or contracting with the illegal alien within three days of receiving notice, and (d) comply with reasonable requests made in the course of an investigation, undertaken pursuant to CRS §8-17.5-102(5), by the Colorado Department of Labor and Employment. If vendor participates in the Department program, vendor shall deliver to the buyer a written, notarized affirmation that vendor has examined the legal work status of such employee, and shall comply with all of the other requirements of the Department program. If vendor fails to comply with any requirement of this provision or CRS §8-17.5-101 et seq., buyer may terminate this PO for breach and, if so terminated, vendor shall be liable for damages. 26. Public Contracts with Natural Persons. Vendor, if a natural person eighteen (18) years of age or older, hereby swears and affirms under penalty of perjury that he or she (a) is a citizen or otherwise lawfully present in the United States pursuant to federal law, (b) shall comply with the provisions of CRS §24-76 5-101 et seq., and (c) has produced a form of identification required by CRS §24-76.5-103 prior to the date vendor delivers goods or begins performing services under terms of the PO. February 24, 2014

Project: Inundation Mapping for City of Trinidad

<u>Vendor</u>: City of Trinidad, PO Box 880, Trinidad, CO 81082 Phone: (719) 846-9843 c/o Mr. Tom Acre

<u>Consultant</u>: W.W. Wheeler & Associates, Inc.; 3700 S. Inca Street, Englewood, CO 80110-3405 Phone: (303) 761-4130 c/o Mr. John Treacy, P.E.

CWCB funding source: Severance Tax Operational Fund

SCOPE OF WORK

W.W. Wheeler, Inc. (Consultant), at the direction of the City of Trinidad (Vendor), will perform a dam breach modeling study and flood inundation mapping for three dams within the Vendor's system. Two sets of maps will be generated: (1) Sunny Day dam failure breach inundation maps and (2) spillway discharge (non-breach) inundation maps. The studies shall be in accordance with the latest Breach Guidelines published by the Colorado Dam Safety Branch. The level of analysis shall be "INTERMEDIATE," as defined in Table 1 of the Guidelines for both the breach modeling and flood inundation mapping. Flood routing models and inundation mapping shall be based on USGS 10-meter Digital Elevation Model (DEM) or best available topographic mapping.

The three dams to be modeled are the Fisher Peak Detention Dam FPC-1, Fisher Peak Detention Dam FPC-2, and Pinon Canyon Detention Dam. The downstream limit of the inundation mapping will extend downstream of the dams to a location on the Purgatoire River where there is no potential for loss of life and no significant property damage.

The inundation limits shall be prepared in UTM coordinates (NAD 83, Zone 13 – meters) which shall be overlaid on base mapping that includes color aerial imagery (2009 or newer). The inundation map shall be printed in color on a minimum sheet size of 11"x 17". The inundation extents shall be clearly illustrated and include peak discharge estimates, peak flood wave arrival times, peak velocities and peak flood wave depths at critical locations. Roads, highways and critical infrastructure (schools, hospitals, fire stations, etc.) shall be annotated and any roads expected to be overtopped by the flood wave shall be identified. The map shall include a legend noting the dam, DAMID, north arrow and a graphic scale.

PROPOSED METHODOLOGY

The Consultant shall perform a clear day dam failure analysis of the dams and route the resulting outflow hydrographs downstream using an unsteady HEC-RAS model. Breach parameters shall be estimated in accordance with methodologies recommended by the Office of the State Engineer, Dam Safety Branch. Also spillway discharge (non-breach) inundation maps shall be prepared showing the downstream inundation areas associated with full spillway discharge flood events. Hydraulic parameters, including width of flow, depth of flow and velocity at critical locations shall be estimated using the Corps of Engineer's HEC-RAS computer modeling software using the unsteady flow option. A water surface profile resulting from peak flow rates at various locations shall be generated. Topographic

information for the floodplains shall be based on USGS 10-meter DEMs from the National Elevation Dataset (NED) elevation data.

Critical bridges shall be surveyed as needed where it is judged they will have a significant effect on the inundation areas. Correspondence shall be with Mark Perry of the Colorado Division of Water Resources to present preliminary dam breach parameters, water surface profile modeling, and inundation mapping and to determine if field measurements are necessary for critical bridges.

DELIVERABLES

For each dam the Vendor shall provide the CWCB the following:

- 1) a brief technical memorandum that documents key assumptions, analysis methods, and results used to generate the inundation mapping;
- 2) 1 printed copy of the inundation mapping;
- 3) 1 CD or DVD that includes the digital GIS inundation mapping files, HEC-1 and HEC-RAS files, PDF files of the inundation maps, and any additional supporting documentation.

SCHEDULE

Work may initiate on the date of the State's Purchase Order and delivery of the final product is due no later than June 20, 2014.

BUDGET

The estimated cost for completing the project is \$25,000 based on Consultant's current rate schedule and projection of effort. The estimate is summarized in the attached Table(s). The Consultant shall invoice Vendor on a Time and Materials basis for services performed.

PAYMENT

The State shall pay Vendor up to \$14,000 for Consultant's project related invoices following receipt of final deliverables. The Vendor is responsible for all expenses in excess of the State's contribution. Any overages or increases in project costs shall be the responsibility of the Vendor.

Estimated Project Cost Sharing:

| Owner Match | \$ 11,000 |
|-------------|------------------|
| CWCB Grant | <u>\$ 14,000</u> |
| TOTAL | \$ 25,000 |

CWCB shall issue payment following receipt and processing of Vendor's Request for Payment submittal. CWCB will issue payment for 56% of the Project's total cost, not to exceed\$14,000. The Request for Payment must include: a summary of Consultant's labor effort and direct costs in accordance with the attached estimate, copies of corresponding invoices from Consultant, and identification of any major issues with proposed or implemented corrective actions. All products, data, and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of project documentation prior to CWCB issue of payment.