

PRRIP – ED OFFICE FINAL 02/16/2015

### PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM

Fourth Amendment to the Agreement between the Nebraska Community Foundation, Inc. and Tetra Tech, Inc., regarding "Platte River Geomorphology and Vegetation Monitoring and Data Analysis"

This Fourth Amendment to the Agreement between the Nebraska Community Foundation, Inc. ("Foundation") of Lincoln, Nebraska, representing all signatories to the Platte River Recovery Implementation Program ("Program"), and Tetra Tech, Inc. ("Consultant"), a private consultant of Fort Collins, Colorado, is made and entered into effective on the date of signing below and the final date of this Amendment will be May 1, 2016.

The purpose of this amendment is to:

- (1) Expand the Scope of Work to include the fourth and final year of system-scale geomorphology and vegetation monitoring and data analysis anticipated under the original contract. This Scope of Work, presented in **Exhibit A**, will commence upon execution of this Amendment and be completed by May 1, 2016.
- (2) Increase the contract amount by \$512,990 for the purpose of compensating the Consultant for the fourth and final year of system-scale monitoring presented in Exhibit A. This will increase the total approved budget for this contract from \$1,568,828 to \$2,081,818. This budget increase shall be effective as of the date of this Amendment and funds will become available immediately. A detailed budget breakdown of the additional effort expended by task and labor category for system-scale monitoring is included in Exhibit B.

Important Amendment notes:

(1) This is the Fourth Amendment to the Agreement. **Exhibit C** includes the Original Agreement, First Amendment, Second Amendment and Third Amendment.

All other terms of the original Agreement remain in effect as originally written in the Agreement dated April 23, 2012. The following parties agree to the terms of this Amendment and the original Agreement:



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	TRAIL ED OFFICETHALE		02/10/2012
35	For the Consultant:		
36			
37			
38			
39			
40	Robert A. Mussetter, PhD, PE	Date	
41	Discipline Lead		
42	Tetra Tech, Inc.		
43			
44	For the Foundation:		
45			
46			
47			
48			
49	Diane M. Wilson	Date	
50	Chief Operating Officer/Chief Financial Officer		
51	Nebraska Community Foundation, Inc.		



52 EXHIBIT A

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**EXHIBIT A** 1 Final Scope of Services 2 Year 4 (January 2015 through December 2015) 3 Channel Geomorphology and In-channel Vegetation Monitoring and 4 Data Analysis, Platte River, Nebraska 5 6 The following tasks shall be completed by Tetra Tech, Inc. in accordance with the Budget 7 (Exhibit B), Hourly Rate and Reimbursable Expenses Price Schedule 2015 (Exhibit C) and Project Timeline (Exhibit D) during the third year (January 2015 through December 2015) of the 8 9 Platte River Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis 10 Contract. Scope of Work 11 **Task 100 - Project Management** 12 13 14 Objective: Facilitate scoping of tasks to efficiently complete the work necessary to achieve 15 the objectives of Platte River Recovery Implementation Program (PRRIP) Channel Geomorphology and In-channel Vegetation Monitoring and Data 16 17 Analysis Project. Detailed project scoping and budgeting shall be completed 18 under this task. Provide Program stakeholders information on project progress. 19 Document project progress through monthly invoices and progress reports. 20 **Activities:** 21 Task 101 - Develop Final Scope of Services and Fee 22 23 Task 102 - Project Management and Meetings: Conduct telephone and/or in-person meetings as necessary to coordinate 24 25 project activities and to keep the Executive Director's Office (EDO). Technical Advisory Committee (TAC) and Governance Committee (GC) informed of 26 27 project progress. 28 29 Task 103 – Re-evaluate Monitoring Protocol Perform a critical evaluation of the Geomorphic and In-Channel Vegetation 30 Monitoring Protocol (PRRIP, 2010) considering the data and analysis from 31 32 the 2009 through 2014 efforts, and provide recommendations for adjustments 33 to the Protocol to improve the efficiency and effectiveness in meeting key 34 PRRIP needs. 35 Participate in a one-day meeting with PRRIP staff and representatives from 36 the TAC and ISAC, as appropriate, to present and discuss the 37 recommendations. 38 Update the Monitoring Protocol and adjust the field data collection plan to 39 reflect any recommended changes resulting from the re-evaluation and 40 meeting. 41 42 **Deliverables:** 43 Draft and final scope of work, schedule, and budget.

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44 45 46		<ul> <li>Updated Geomorphic and In-Channel Vegetation Monitoring Protocol, is appropriate.</li> <li>Meeting minutes from all Project Management meetings.</li> </ul>
47 48		<ul> <li>Draft minutes in Microsoft Word format provided to ED office for review/comment.</li> </ul>
49		o Final minutes in PDF format.
50 51 52 53		<ul> <li>Monthly invoices to the ED office, including a summary of work completed in the current month, anticipated work for the following month, and percent complete for scope of work and budget by task.</li> </ul>
54 55 56 57 58	Information/S	<ul> <li>Service to be Provided by EDO Office Staff:</li> <li>Data from ongoing Program data collection efforts.</li> <li>Timely review and comments on draft scope of work, meeting minutes and related documents.</li> </ul>
59 60 61 62 63 64	Meetings/Tra	<ul> <li>Monitoring Protocol Re-evaluation Meeting in Kearney or other location, as specified by PRRIP staff.</li> <li>Meetings to be held by telephone conference.</li> <li>Other meetings as described below.</li> </ul>
65 66	Task Series	200 Field Monitoring Tasks
67 68 69 70 71 72	Objective:	Conduct annual geomorphic and in-channel vegetation data collection and monitoring in accordance with the Channel Geomorphology and In-Channe Vegetation Monitoring Protocol (PRRIP, 2010) (hereinafter referred to as the <i>Monitoring</i> Protocol) to document trends in channel geomorphology and provide system-wide status in areal cover and elevation range of in-channel seeding and invasive vegetation.
73	Monitoring	invasive vegetation.
74 75 76 77 78 79	Area:	The annual monitoring and data collection shall be conducted at 25 previously identified Anchor Points (APs) in the PRRIP habitat area, which consists or channels within an area 3.5 miles either side of the centerline of the Platte River from the junction of U.S. Highway 283 and Interstate 80 near Lexington Nebraska, to Chapman, Nebraska (approximately 95 miles).
80 81 82 83 84 85	Timing:	The monitoring shall occur during an annual low flow (ideally between 250 and 500 cfs) that typically occurs between July 1 and August 31 to maximize the amount of data available to track changes in channel topography and vegetation. Although monitoring will ideally be completed during low flows, monitoring shall be completed annually even in years when flows remain high.
86 87 88 89 90 91	Activities:	<ul> <li>Task 201 – Field Preparation</li> <li>Prepare field plans and assemble and set up field equipment and data collection sheets and devices.</li> </ul>

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94 Bathymetric and topographic surveys shall be conducted at five transects at 95 each of the 25 APs following procedures in Sections III.B.1 and III.B.2 of the Monitoring Protocol. 96 97 98 Task 203 - In-Channel Vegetation Surveys In-channel vegetation surveys shall be conducted at each of the 25 specified 99 100 APs in accordance with Section III.C of the Monitoring Protocol. 101 102 Task 204 - Bed Material Sampling Bed-material sampling shall be conducted at each of the 25 specified APs in 103 104 accordance with Section III.D of the Monitoring Protocol. 105 106 Task 205 – Sediment Transport Measurements 107 Bed-load and depth-integrated suspended sediment sampling shall be conducted up to six times at bridge crossings near Lexington (SH-108 109 L24A/Road), Overton (SH-L24B/Road 444), Kearney (SH-44/S. 2nd Avenue), 110 Shelton (SH-L10D/Shelton Road), and Grand Island (US-34/Schimmer Drive) in accordance with Section III.H.1 of the Monitoring Protocol. 111 112 113 Task 206 – Field Data Reduction 114 Compile and catalog field data and field photos, organize spreadsheets and 115 prepare database of raw data. 116 117 Deliverables: Field data and photographs (See Task 400–Reporting). 118 119 Meetings/Travel: As necessary to complete field surveys. 120 121 Task Series 300 – Data Analysis 122 123 Objective: Implement the data analysis plan to provide an analysis of the channel 124 geomorphology and in-channel vegetation data. The analysis shall incorporate 125 the 2015 data into the previously analyzed data from 2009 through 2014. 126 Activities: 127 Task 301 – Review and revise draft Data Analysis Plan 128 Update the Draft Data Analysis Plan based on results and recommendations from the analyses performed on the 2009 through 2015 data. 129 130 131 Task 302 - Presentation of Data Analysis Plan Participate in a meeting with Program staff, TAC and ISAC, as appropriate, to 132 133 present adjustments to proposed data analysis plan and receive TAC comments. Finalize draft data analysis plan based on TAC input. 134 135 136 Task 303 – Implement Data Analysis Plan 137 Perform the analyses described in the revised plan. The analysis will focus primarily on data collected at the Pure Panel APs (i.e., those surveyed every 138 139 year) during 2009 through 2015. 140 141 142

Task 202 - Bathymetric and Topographic Survey of Transects

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### 143 Deliverables:

 Recommended revisions to the Draft Data Analysis Plan – to be provided in MS Word Track Changes mode.

Data analysis section of the annual report (see Task 400 – Reporting).

**Meetings/Travel:** TAC Meeting in Kearney, NE.

Task Series 400 - Reporting

### Objective: Develop

Develop a draft (Microsoft Word) and final (Microsoft Word and PDF) annual report that includes methods, results, data analysis (as specified in the Data Analysis Plan), photographs of field work, and other associated data. Reports shall be delivered electronically to the ED Office for review and comment by the ED Office and the Program's Technical Advisory Committee (TAC). Annual monitoring data shall be uploaded to the Program's online database in a format consistent with other Program data. Prepare for and participate in the Program's annual AMP Reporting Session held in early March of each year. Preparation shall include development of an Executive Summary and presentation of annual activities and findings.

### **Activities:**

### Task 401 – Annual Report

- Prepare draft annual reports.
- Address EDO and TAC comments, and prepare final annual report.

### Task 402 – Annual AMP Reporting Session<sup>1</sup>

- Prepare Executive Summary and presentation.
- Participate in the AMP Reporting Session.

### **Deliverables:**

- Draft annual report.
- Final annual report addressing EDO and TAC comments on the draft report.

### **Meetings/Travel:** None.

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EXHIBIT B



### **EXHIBIT B**

## Year 4 (January 2015 through December 2015) Cost Estimate for Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis, Platte River, Nebraska

Subtask	Description	Principal Engineer/ Geomorphologist	Senior Biologist	Statistical Ecologist	Licensed Surveyor	Senior Engineer/ Scientist	Engineer/ Scientist	entist	Staff Biologist	Staff Ecologist/ Technician	Draftsman/ Technician	Clerical	Labor Cost	Direct Costs*	Total by Task
		\$249.30	\$193.02	\$170.52	\$131.13	\$125.50	\$116.48	\$108.61	\$102.98	\$96.80	\$74.85	\$86.10			
100	Project Initiation and Management	52	32	4		4	8		8			10	\$ 22,941	\$ 2,315	\$ 25,256
101	Finalize Scope and Fee	4	2									2	\$ 1,555		\$ 1,555
102	Project Management and Meetings	12	6			4						4	\$ 4,996	\$ -	\$ 4,996
103	Re-evaluate Monitoring Protocol	36	24	4			8		8			4	\$ 16,389	\$ 2,315	\$ 18,705
200	Field Monitoring	50	48	4	24	32	728	184	368	488	744	28	\$ 277,591	\$ 101,626	\$ 379,217
201	Field preparation	2	8	4	8	4	16	24	24	24	8		\$ 14,140	\$ -	\$ 14,140
202	Bathymetric and Topographic Surveys	20			16	8	416				208	5	\$ 72,543	\$ 24,599	\$ 97,142
203	In-channel Vegetation Surveys		24						224	224	448	5	\$ 83,347	\$ 32,074	\$ 115,420
204	Bed Material Sampling	4				4	40	40			40	5	\$ 13,927	\$ 30,531	\$ 44,459
205	Sediment transport measurements	8				8	240			240		5	\$ 54,616	\$ 14,093	\$ 68,709
206	Data Reduction	16	16			8	16	120	120		40	8	\$ 39,018	\$ 328	\$ 39,347
300	Data Analysis	64	64	44		8	80	80	84	4	40	4	\$ 67,198	\$ 1,734	\$ 68,932
301	Review and Revise Draft Data Analysis Plan	12	8	4					4	4		4	\$ 6,361	\$ -	\$ 6,361
302	Participate in TAC Meeting	12	16										\$ 6,080	\$ 1,734	\$ 7,814
303	Implement Data Analysis Plan	40	40	40		8	80	80	80		40		\$ 54,757	\$ -	\$ 54,757
400	Reporting	40	52	32		8	24	24	24	16	20	10	\$ 38,250	\$ 1,334	\$ 39,584
401	Annual Report	24	40	32		8	24	16	16	16	16	8	\$ 29,781	\$ 437	\$ 30,217
402	Annual AMP Reporting Session	16	12					8	8		4	2	\$ 8,469	\$ 898	\$ 9,367
	Total Hours	206	196	84	24	52	840	288	484	508	804	52			
	TOTAL COST	\$51,356	\$37,832	\$14,324	\$3,147	\$6,526	\$97,843	\$31,280	\$49,842	\$49,174	\$60,179	\$4,477	\$ 405,981	\$ 107,009	\$ 512,990

<sup>\*</sup>Includes G&A (14.13%)

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### EXHIBIT B (CONTINUED) Year 4 (January 2015 through December 2015) Costs for Channel Geomorphology and In-channel

### Other Direct Costs for Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis, Platte River, Nebraska

h	Unit Cost	Т	ask 10	)2		Task 202		Task 203		Task	204	1	ask 205	_	Task:	206	Ta	ask 302		Task 401	Т	ask 402	Total
Item	Unit Cost	Qty	Co	ost	Qty	Cost	Qty Cost		Qty		Cost	Qty	Cost	Qty	(	Cost	Qty	Cost	Qty	Cost	Qty	Cost	i otai
Airline Tickets	\$400	1	\$ 4	400.00		\$ -	6	\$ 2,400.00		\$			\$ -		\$	-	1	\$ 400.00		\$ -	1	\$ 400.00	\$ 3,200.00
Mileage	\$0.565 /mi.	700	\$ 3	395.50	100	\$ 56.50		\$ -	2100	\$	1,186.50	5100	\$ 2,881.50		\$	-	800	\$ 452.00		\$ -	150	\$ 84.75	\$ 4,972.00
Mileage (4x4)	\$1.00 /mi.		\$	-	250	\$ 250.00		\$ -		\$	-		\$ -		\$	-		\$ -		\$ -		\$ -	\$ 950.00
Lodging and per diem	\$129 /day	2	\$ 2	258.00	78	\$ 10,062.00	112	\$ 14,448.00	15	\$	1,935.00	48	\$ 6,192.00		\$	-	3	\$ 387.00		\$ -	2	\$ 258.00	\$ 33,282.00
Parking	\$15 /day		\$	-		\$ -	3	\$ 45.00		\$			\$ -		\$	-	2	\$ 30.00		\$ -	2	\$ 30.00	\$ 75.00
Rental Car (including gas)	\$125 /day	2	\$ 2	250.00		\$ -	28	\$ 3,500.00		\$	-		\$ -		\$	-	2	\$ 250.00		\$ -	1	\$ 125.00	\$ 4,000.00
rovers)	\$2,500 /week		\$	-	3	\$ 7,500.00		\$ -	1	\$	2,500.00		\$ -		\$	-		\$ -		\$ -		\$ -	\$ 10,000.00
RFK-GPS Survey Equipment (1 rover)	\$900 /week		\$	-		\$ -	4	\$ 3,600.00		\$	-		\$ -		\$	-		\$ -		\$ -		\$ -	\$ 3,600.00
Echo Sounder	\$625 /week		\$	-	1	\$ 625.00		\$ -		\$	-		\$ -		\$	-		\$ -		\$ -		\$ -	\$ 625.00
Air Boat	\$250 /day		\$	-	10	\$ 2,500.00	15	\$ 3,750.00	3	\$	750.00		\$ -		\$	-		\$ -		\$ -		\$ -	\$ 7,000.00
Inflatable Kayak	\$50 /day		\$	-	4	\$ 200.00		\$ -		\$			\$ -		\$	-		\$ -		\$ -		\$ -	\$ 200.00
Lab. Analysis of Bed and Bar Material Sediment																							
Samples	\$75 /sample		\$	-		\$ -		\$ -	270	\$	20,250.00		\$ -		\$	-		\$ -		\$ -		\$ -	\$ 20,250.00
Lab. Analysis of Bedload Samples	\$85 /sample		\$	-		\$ -		\$ -		\$		30	\$ 2,550.00		\$	-		\$ -		\$ -		\$ -	\$ 2,550.00
Lab. Analysis of Suspended Sediment Samples	\$100 /sample		\$	-		\$ -		\$ -		\$		5	\$ 500.00		\$	-		\$ -		\$ -		\$ -	\$ 500.00
Expendable Field Supplies	LS		\$	-		\$ 250.00		\$ 250.00		\$	100.00		\$ 200.00					\$ -		\$ -		\$ -	\$ 800.00
Xerox (8 1/2 x 11 & 11x17)	\$0.10 /page		\$	-		\$ -		\$ -		\$	-		\$ -	100	\$	10.00		\$ -	200	\$ 20.00		\$ -	\$ 30.00
Reproducible Prints - Plotter (Color)	\$7.50 /page		\$	-		\$ -		\$ -		\$			\$ -	25	\$	187.50		\$ -	25	\$ 187.50		\$ -	\$ 375.00
Color laser prints	\$0.50 /sheet		\$	-	120	\$ 60.00	120	\$ 60.00	20	\$	10.00	20	\$ 10.00	50	\$	25.00		\$ -	50			\$ -	\$ 190.00
Misc. Office Supplies	LS		\$	-		\$ -		\$ -		\$	-		\$ -		\$	50.00		\$ -		\$ 100.00		\$ -	\$ 150.00
Misc. Communications (Telephone, fax, shipping)	LS		\$	25.00		\$ 50.00		\$ 50.00		\$	20.00		\$ 15.00		\$	15.00		\$ -		\$ 50.00		\$ -	\$ 225.00
TOTAL DIRECT COSTS			\$ 2,0	028.50		\$ 21,553.50		\$ 28,103.00		\$	26,751.50		\$ 12,348.50		\$	287.50		\$ 1,519.00		\$ 382.50		\$ 897.75	\$ 92,974.00

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PERSONNEL:

### RATE SCHEDULE

Year 4 (January 2015 through December 2015)

**Hourly Rate\*** 

\$1,500/week

\$3,000/week

\$3,500/week \$ 60/day

Principal Engineer/Geomorphologist	\$249.30
Senior Biologist	\$193.02
Statistical Ecologist	\$170.52
Licensed Surveyor	\$131.13
Senior Engineer/Scientist	\$125.50
Engineer/Scientist	\$116.48
Junior Engineer/Scientist	\$108.61
Staff Biology	\$102.98
Staff Ecologist/Technician	\$ 96.80
Draftsman/Technician II	\$ 74.85
Word Processor/Clerical	\$ 86.10
IN HOUSE FOURMENT.	Data
IN HOUSE EQUIPMENT:	Rate
Computer Use Automobile	\$1.75 per labor hour
Computer Use	
Computer Use	\$1.75 per labor hour Approved GSA Rates for
Computer Use Automobile	\$1.75 per labor hour Approved GSA Rates for Privately Owned Vehicles \$ 250/day \$ 100/day
Computer Use Automobile Airboat	\$1.75 per labor hour Approved GSA Rates for Privately Owned Vehicles \$ 250/day \$ 100/day \$ 100/day
Computer Use Automobile  Airboat Cataraft (16-ft)	\$1.75 per labor hour Approved GSA Rates for Privately Owned Vehicles \$ 250/day \$ 100/day \$ 100/day \$ 225/day
Computer Use Automobile  Airboat Cataraft (16-ft) Cataraft (14-ft)	\$1.75 per labor hour Approved GSA Rates for Privately Owned Vehicles \$ 250/day \$ 100/day \$ 100/day \$ 225/day \$ 50/day
Computer Use Automobile  Airboat Cataraft (16-ft) Cataraft (14-ft) Jet boat (18-ft) Inflatable kayak Zodiak (9-ft)	\$1.75 per labor hour Approved GSA Rates for Privately Owned Vehicles \$ 250/day \$ 100/day \$ 100/day \$ 225/day \$ 50/day \$ 100/day
Computer Use Automobile  Airboat Cataraft (16-ft) Cataraft (14-ft) Jet boat (18-ft) Inflatable kayak	\$1.75 per labor hour Approved GSA Rates for Privately Owned Vehicles \$ 250/day \$ 100/day \$ 100/day \$ 225/day \$ 50/day \$ 100/day \$ 100/day \$ \$ 50/day \$ \$ 100/day \$ 1,00/day \$ 1,00/day
Computer Use Automobile  Airboat Cataraft (16-ft) Cataraft (14-ft) Jet boat (18-ft) Inflatable kayak Zodiak (9-ft)	\$1.75 per labor hour Approved GSA Rates for Privately Owned Vehicles \$ 250/day \$ 100/day \$ 100/day \$ 225/day \$ 50/day \$ 100/day \$ 100/day \$ 50/day \$ 100/day \$ 1,00/day \$ 1,00/day

### Hypack

IN HOUSE REPRODUCTION:

ADCP with GPS Equipment and Echosounder

ADCP with GPS Equipment

**ADCP Unit** 

8 ½ x 11 paper	\$ 0.09/sheet
Plotter (black & white)	\$5.00/sheet
Plotter (color)	\$7.50/sheet

\*Hourly rates for deposition and court time associated with expert witness support will be charged at 1.5 times the indicated rate. Permit fees, processing fees, bonds, etc. will be the responsibility of the client. All other direct costs including travel, lodging, meals and incidentals for personnel, special photography, postage, delivery services, express mail, out-of-area telephone calls, printing by outside vendor, laboratory analysis, and any other services performed by outside vendor will be billed at cost plus G&A of 14.13%. Subcontract services will be charged to the client with a 10% service fee. Tetra Tech (TT) is not liable for damages caused by delays in performance of the above work, which arise from events beyond our reasonable control. TT is not responsible for damages or losses incurred through the use of studies, plans, recommendations or cost estimates in excess of the fees paid to TT for these services. Monthly progress payments shall be due and payable by the Client within 30 days after submittal of the bill for such work by TT. The progress payment shall include the portion of the fee earned based upon the percentage of work performed, as determined by TT. Payment due but unpaid within 30 days after submission of the bill shall bear interest at the rate of 1½% per month until paid. If client should fail to pay within ninety (90) days after the bill is rendered, TT shall have the right, upon seven (7) days written notice to the Client, to stop work on the project until payment of the amount owed, including all interest charges, has been received.

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### Year 4 (January 2015 through December 2015)

### **Project Timeline**

Subtask	Description Jan-April May June July			Aug	ust		Se	pten	nber		0	tobe	er	November				De	cemb	er											
100	Project Initiation and Management										Т							$\Box$	Т	Т											
101	Finalize Scope and Fee																														
102	Project Manatement and Meetings																														
103	Re-evaluate Monitoring Protocol																														
200	Field Monitoring																														
201	Bathymetric and Topographic Surveys																														
202	In-channel Vegetation Surveys																														
203	Bed Material Sampling							Τ														Т								Т	Т
204	Sediment transport measurements						1		1		1		1				1		1 '	1 '	1 '				1			1	1 1	1	
205	Data Reduction																													$\perp$	
300	Data Analysis																														
301	Review and Revise Draft Data Analysis Plan																														
302	Participate in TAC Meeting								2																						
303	Implement Data Analysis Plan																														
400	Reporting																														
401	Annual Report																												I		
402	Annual AMP Reporting Session - See Note 3, below.							Π														Т						П		Т	Т
1	Up to 6 sets of measurements in accordance with Section III.H.1. of the Monitoring Protocol. Specific timing dependent on flow levels.																														
2	Meeting has not been scheduled at this time.																														
3	Meeting not shown in timeline; typically occurs in February																														
D	Delivery of draft annual report and associated database and photos.																														

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56 EXHIBIT C

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Tetra Tech 3801 Automation Way Suite 100 TIN# 97-4148514 Nebraska Community Foundation, Inc. PO Box 83107 Lincoln, NE 68501-3107 TIN# 47-0769903

### PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM

Contract between Nebraska Community Foundation, Inc., Platte River Recovery Implementation Program, and Tetra Tech, Inc.

### Platte River Geomorphology and Vegetation Monitoring and Data Analysis

- 1. <u>Parties.</u> This Contract is made and entered into by and between the Nebraska Community Foundation, Inc. ("Foundation") of Lincoln, Nebraska, representing all signatories to the Platte River Recovery Implementation Program ("Program") and Tetra Tech, Inc. ("Consultant"). The following persons are authorized to represent the parties through this Contract: Diane Wilson of the Foundation, Dr. Jerry Kenny of the Program; and Dr. Robert Mussetter of the Consultant.
- 2. <u>Purpose of Contract</u>. The purpose of this Contract is to allow the Foundation, acting as the fiscal agent for the Governance Committee (GC) of the Program, to retain the services of the Consultant to render certain technical or professional services hereinafter described in connection with an undertaking to be financed by the Program, and to delegate the Executive Director's Office ("ED Office") through its Executive Director or his designee the authority to administer this Contract.

### **TERMS AND CONDITIONS**

3. <u>Term of Contract and Required Approvals</u>. This Contract is effective when all parties have executed it and all required approvals have been granted. The term of this Contract is from May 2, 2012 through April 30, 2016. The services to be performed under this Contract will commence upon receipt of authorization to proceed. All services shall be completed during this term.

If the Consultant has been delayed and as a result will be unable, in the opinion of the Program, to complete performance fully and satisfactorily within this Contract period, the Consultant may be granted an extension of time, upon submission of evidence of the causes of delay satisfactory to the Program.

### 4. Payment.

A. Reimbursement of Expenses. The Program agrees to pay the Consultant an amount based on the approved budget depicted in Exhibit B and hourly rate and reimbursable

expenses price schedules depicted in Exhibit C, attached to this Contract and incorporated by reference as part of this Contract, for the services described in Exhibit A, attached to this Contract and incorporated by reference as part of this Contract. Total payment under this Contract shall not exceed four hundred seventy four thousand and four hundred forty nine dollars (\$474,449.00).

B. Project Budget. The Project budget for each task included in Exhibit A is as follows:

<u>Task</u>	Estimated Cost
Task 100 (Project Initiation and Management)	\$ 7,651
Task 200 (Field Monitoring) Task 300 (Data Analysis)	\$355,515 \$ 83,595
Task 400 (Reporting)	\$ 27,688
Total Project Cost	\$474,449

The amounts for each task are estimates only, but are not to be exceeded unless authorized in writing by the Program. The Contract total amount is controlling. Payment shall be made directly to the Consultant. The Consultant shall maintain hourly records of time worked by its personnel to support any audits the Program may require. Billing reports shall be submitted no more often than monthly for activities and costs accrued since the last billing report. A brief project progress report summarizing project activities in the billing period must be submitted with each billing.

C. Billing Procedures. The Consultant shall send billing reports for services performed for the various tasks outlined in Exhibit A to the ED Office (address included below). The Program's Executive Director, upon receiving the billing report, will approve the bill and submit the bill for payment. The submittal for payment will then be reviewed by the Signatory Parties of the Program who will advise the Foundation of approval. The Foundation will make payment of these funds directly to the Consultant within 30 days of notice of approval by the Signatory Parties. Payments of bills are due within 60 days after the billing date of the Consultant.

### **Billing Point of Contact (Program):**

Dr. Jerry F. Kenny, Executive Director Platte River Recovery Implementation Program Headwaters Corporation 4111 4<sup>th</sup> Avenue, Suite 6 Kearney, Nebraska 68845

Phone: (308) 237-5728

Fax: (308) 237-4651

Email: <u>kennyj@headwaterscorp.com</u>

- D. Money Withheld. When the Program has reasonable grounds for believing that the Consultant will be unable to perform this Contract fully and satisfactorily within the time fixed for performance, then the Program may withhold payment of such portion of any amount otherwise due and payable to the Consultant reasonably deemed appropriate to protect the Program against such loss. These amounts may be withheld until the cause for the withholding is cured to the Program's satisfaction or this Contract is terminated pursuant to Section 8U. Any amount so withheld may be retained by the Program for such period as it may deem advisable to protect the Program against any loss. This provision is intended solely for the benefit of the Program and no person shall have any right against the Program by reason of the Program's failure or refusal to withhold monies. No interest shall be payable by the Program on any amounts withheld under this provision. This provision is not intended to limit or in any way prejudice any other right of the Program.
- E. Withholding of Payment. If a work element has not been received by the Program by the dates established in Exhibit A, the Program may withhold all payments beginning with the month following that date until such deficiency has been corrected.
- **F. Final Completion and Payment.** The final payment shall be made upon acceptance of the final report and receipt of the final billing.

### 5. Responsibilities of Consultant.

- A. Scope of Services. The Consultant shall perform the specific services required under this Contract in a satisfactory and proper manner as outlined in Exhibit A. If there is any conflict between this Contract and the provisions of the specific requirements of Exhibit A, the specific requirements shall prevail.
- **B.** Personnel. All of the services required hereunder will be performed by the Consultant or under its supervision, and all personnel engaged in the work shall be fully qualified and shall be authorized, licensed, or permitted under state law to perform such services, if state law requires such authorization, license, or permit.

### C. Subcontracts.

- (i) Approval Required for Subcontracts. Any subcontractors and outside associates or consultants required by the Consultant in connection with the services, work performed or rendered under this Contract will be limited to such individuals or firms as were specifically identified in the proposal and agreed to during negotiations or are specifically authorized by the Program during the performance of this Contract. The Consultant shall submit a list of the proposed subcontractors, associates or consultants; the scope and extent of each subcontract; and the dollar amount of each subcontract prior to Contract execution to the Program for approval. During the performance of the Contract, substitutions in or additions to such subcontracts, associates, or consultants will be subject to the prior approval of the Program. The Program approval of subcontractors will not relieve the Consultant from any responsibilities outlined in this Contract. The Consultant shall be responsible for the actions of the subcontractors, associates, and subconsultants.
- (ii) Billings for Subcontractors. Billings for subcontractor, associates or subconsultants services will not include any mark up. The subcontract costs will be billed to the Program at the actual costs as billed to the Consultant. Subcontract costs will be documented by attaching subcontractor billings to the Consultant's billing submittals.
- (iii) Copies of Subcontracts. The Consultant shall provide to the Program copies of each subcontractor contract immediately following execution with the subcontractor. All subcontracts between the Consultant and a subcontractor shall refer to and conform to the terms of this Contract. However, nothing in this Contract shall be construed as making the Program a party of any subcontract entered between the Consultant and a subcontractor.
- D. Requests from the Program. The Consultant shall be responsible and responsive to the Program and the ED Office in their requests and requirements related to the scope of this Contract.
- E. Presentation of Data. The Consultant shall select and analyze all data in a systematic and meaningful manner so as to contribute directly in meeting the objectives of the Project, and shall present this information clearly and concisely, in a professional manner.
- F. Draft of Final Report. The Consultant shall present the Program a draft of the final report covering all work elements of the Project including maps, charts, conclusions and recommendations prior to the publication of any final report and no later than the date specified in Exhibit A. Draft Reports will be provided to the Program in Microsoft Word format for distribution and review. The Program will respond with written comments to the Consultant as soon as possible. The Consultant will address the comments of the Program in the final report. Final Reports will be provided to the Program in Microsoft Word and PDF format.

- G. Project Completion Report. A final project completion report in the form described in Exhibit A shall be submitted to the Program by the date specified in Exhibit A.
- H. Reports, Maps, Plans, Models and Documents. One (1) copy of maps, plans, worksheets, logs, field notes and other reference or source documents prepared for or gathered under this Contract, and one (1) copy of each unpublished report prepared under this Contract shall be submitted to the Program. If the Consultant writes or uses a computer program or spreadsheet as a part of this project, the Consultant shall submit to the Program for approval all proposed program names and data formats prior to beginning work on that task. All data shall be submitted to Program in written and digital forms with the final report. Digital media shall be labeled by the Consultant to provide sufficient detail to access the information on the media. All user manuals shall be submitted by the Consultant to Program providing complete documentation of computer programs developed under this Contract. The user manual shall also specify the source code language and the type of computer equipment necessary to operate the program(s). Any programs or computer software generated as a part of this Contract shall be the sole property of the Program.
- I. Inspection and Acceptance. All deliverables furnished by the Consultant shall be subject to rigorous review by the Program's ED Office prior to acceptance.

### 6. Responsibilities of the Program.

- A. Designated Representative. The Executive Director of the Program shall act as the Program's administrative representative with respect to the Consultant's service to be performed under this Contract and shall have complete authority to transmit instructions, receive information, and interpret and define the Program's policies and decisions with respect to services covered by this Contract.
- B. Data to be Furnished to the Consultant. All information, data, reports, and maps as are available to the Program and necessary for the carrying out of the Scope of Services set forth herein shall be furnished to the Consultant without charge and the ED Office shall cooperate with the Consultant in the carrying out of the project.
- C. Review Reports. The ED Office shall examine all studies, reports, sketches, opinions of the construction costs, and other documents presented by the Consultant to the Program and shall promptly render in writing the Program's decisions pertaining thereto within the time periods specified in Exhibit A.
- **D.** Provide Criteria. The ED Office shall provide all criteria and full information regarding its requirements for the project.

### 7. Special Provisions.

- A. No Finder's Fees. No finder's fee, employment agency fee, or other such fee related to the procurement of this Contract shall be paid by either party.
- **B.** Publication. It is understood that the results of this work may be available to the Consultant for publication and use in connection with related work. Use of this work for publication and related work by the Consultant must be conducted with prior authorization from the Program's Technical Point of Contact.
- C. Publicity. Any publicity or media contact associated with the Consultant's services and the result of those services provided under this Contract shall be the sole responsibility of the Program. Media requests of the Consultant should be directed to the Director of Outreach and Operations in the ED Office.
- **D.** Monitor Activities. The Program shall have the right to monitor all Contract related activities of the Consultant and all subcontractors. This shall include, but not be limited to, the right to make site inspections at any time, to bring experts and consultants on site to examine or evaluate completed work or work in progress, and to observe all Consultant personnel in every phase of performance of Contract related work.
- **D.** Kickbacks. The Consultant certifies and warrants that no gratuities, kickbacks or contingency fees were paid in connection with this Contract, nor were any fees, commissions, gifts, or other considerations made contingent upon the award of this Contract. If the Consultant breaches or violates this warranty, the Program may, at its discretion, terminate this Contract without liability to the Program, or deduct from the Contract price or consideration, or otherwise recover, the full amount of any commission, percentage, brokerage, or contingency fee.
- E. Office Space, Equipment, and Supplies. The Consultant will supply its own office space, equipment, and supplies.

### 8. General Provisions.

- A. Amendments. Any changes, modifications, revisions or amendments to this Contract which are mutually agreed upon by the parties to this Contract shall be incorporated by written instrument, executed and signed by all parties to this Contract.
- **B.** Applicable Law/Venue. The construction, interpretation and enforcement of this Contract shall be governed by the laws of the State of Nebraska. The Courts of the State of Nebraska shall have jurisdiction over this Contract and the parties.

- C. Assignment/Contract Not Used as Collateral. Neither party shall assign or otherwise transfer any of the rights or delegate any of the duties set forth in this Contract without the prior written consent of the other party. The Consultant shall not use this Contract, or any portion thereof, for collateral for any financial obligation, without the prior written permission of the Program.
- D. Audit/Access to Records. The Program and any of its representatives shall have access to any books, documents, papers, and records of the Consultant which are pertinent to this Contract. The Consultant shall, immediately upon receiving written instruction from the Program, provide to any independent auditor, accountant, or accounting firm, all books, documents, papers and records of the Consultant which are pertinent to this Contract. The Consultant shall cooperate fully with any such independent auditor, accountant, or accounting firm, during the entire course of any audit authorized by the Program.
- E. Availability of Funds. Each payment obligation of the Program is conditioned upon the availability of funds and continuation of the Platte River Recovery Implementation Program. If funds are not allocated and available for the continuance of the services performed by the Consultant, the contract may be terminated by the Program at the end of the period for which the funds are available. The Program shall notify the Consultant at the earliest possible time of the services which will or may be affected by a shortage of funds. No penalty shall accrue to the Program in the event this provision is exercised, and the Program shall not be obligated or liable for any future payments due or for any damages as a result of termination under this section. This provision shall not be construed to permit the Program to terminate this Contract to acquire similar services from another party.
- F. Award of Related Contracts. The Program may undertake or award supplemental or successor contracts for work related to this Contract. The Consultant shall cooperate fully with other contractors and the Program in all such cases.
- G. Certificate of Good Standing. Consultant shall provide Certificate of Good Standing verifying compliance with the unemployment insurance and workers' compensation programs prior to performing work under this Contract.
- **H.** Compliance with Law. The Consultant shall keep informed of and comply with all applicable federal, state and local laws and regulations in the performance of this Contract.
- I. Confidentiality of Information. All documents, data compilations, reports, computer programs, photographs, and any other work provided to or produced by the Consultant in the performance of this Contract shall be kept confidential by the Consultant unless written permission is granted by the Program for its release.

### J. Conflicts of Interest

- (i) Consultant shall not engage in providing consultation or representation of clients, agencies or firms which may constitute a conflict of interest which results in a disadvantage to the Program or a disclosure which would adversely affect the interests of the Program. Consultant shall notify the Program of any potential or actual conflicts of interest arising during the course of the Consultant's performance under this Contract. This Contract may be terminated in the event a conflict of interest arises. Termination of the Contract will be subject to a mutual settlement of accounts. In the event the contract is terminated under this provision, the Consultant shall take steps to insure that the file, evidence, evaluation and data are provided to the Program or its designee. This does not prohibit or affect the Consultant's ability to engage in consultations, evaluations or representation under agreement with other agencies, firms, facilities, or attorneys so long as no conflict exists.
- (ii) A conflict of interest warranting termination of the Contract includes, but is not necessarily limited to, representing a client in a adversarial proceeding against the Platte River Recovery Implementation Program, its signatories, boards, commissions or initiating suits in equity including injunctions, declaratory judgments, writs of prohibition or quo warranto.
- K. Entirety of Contract. This Contract, consisting of <u>Twelve (12)</u> pages, Exhibit A, consisting of <u>Seven (7)</u> pages, Exhibit B, consisting of <u>Two (2)</u> pages, Exhibit C, consisting of <u>One (1)</u> page, and Exhibit D, consisting of <u>One (1)</u> page, represents the entire and integrated Contract between the parties and supersedes all prior negotiations, representations, and agreements, whether written or oral.
- L. Force Majeure. Neither party shall be liable for failure to perform under this Contract if such failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Such causes may include, but are not limited to, acts of God or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather. This provision shall become effective only if the party failing to perform immediately notifies the other party of the extent and nature of the problem, limits delay in performance to that required by the event, and takes all reasonable steps to minimize delays. This provision shall not be effective unless the failure to perform is beyond the control and without the fault or negligence of the nonperforming party.
- M. Indemnification. The Consultant shall indemnify and hold harmless the Foundation, the Program, the ED Office, and their officers, agents, employees, successors and assignees from any and all claims, lawsuits, losses and liability arising out of Consultant's failure to perform any of Consultant's duties and obligations hereunder or in connection with the negligent performance of Consultant's duties or obligations, including but not limited to any claims, lawsuits, losses or liability arising out of Consultant's malpractice.
  - N. Independent Contractor. The Consultant shall function as an

independent contractor for the purposes of this Contract, and shall not be considered an employee of the Program, Foundation or ED Office for any purpose. The Consultant shall assume sole responsibility for any debts or liabilities that may be incurred by the Consultant in fulfilling the terms of this Contract, and shall be solely responsible for the payment of all federal, state and local taxes which may accrue because of this Contract. Nothing in this Contract shall be interpreted as authorizing the Consultant or its agents and/or employees to act as an agent or representative for or on behalf of the Foundation or the Program, or to incur any obligation of any kind on the behalf of the Foundation or the Program. The Consultant agrees that no health/hospitalization benefits, workers' compensation and/or similar benefits available to Foundation or Program employees will inure to the benefit of the Consultant or the Consultant's agents and/or employees as a result of this Contract.

- O. Notices. All notices arising out of, or from, the provisions of this contract shall be in writing and given to the parties at the address provided under this Contract, either by regular mail, facsimile, e-mail, or delivery in person.
- P. Notice and Approval of Proposed Sale or Transfer of the Consultant. The Consultant shall provide the Program with the earliest possible advance notice of any proposed sale or transfer or any proposed merger or consolidation of the assets of the Consultant. Such notice shall be provided in accordance with the notice provision of this Contract.
- Q. Ownership of Documents/Work Product/Materials. All documents, reports, records, field notes, data, samples, specimens, and materials of any kind resulting from performance of this Contract are at all times the property of the Program.
- R. Patent or Copyright Protection. The Consultant recognizes that certain proprietary matters or techniques may be subject to patent, trademark, copyright, license or other similar restrictions, and warrants that no work performed by the Consultant or its subcontractors will violate any such restriction.
- S. Proof of Insurance. The Consultant shall not commence work under this Contract until the Consultant has obtained the following insurance coverages and provided the corresponding certificates of insurance:
- (i) Commercial General Liability Insurance. Consultant shall provide coverage during the entire term of the Contract against claims arising out of bodily injury, death, damage to or destruction of the property of others, including loss of use thereof, and including products and completed operations in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per claimant and One Million Dollars (\$1,000,000.00) per occurrence.
- (ii) Business Automobile Liability Insurance. Consultant shall maintain, during the entire term of the Contract, automobile liability insurance in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per occurrence. Coverage will include bodily injury and property damage covering all vehicles, including hired vehicles, owned and

### non-owned vehicles

- (iii) Workers' Compensation or Employers' Liability Insurance. The Consultant shall provide proof of workers' compensation coverage Consultant's insurance shall include "Stop Gap" coverage in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per employee for each accident and disease.
- (iv) Professional Liability or Errors and Omissions Liability Insurance. The Consultant shall provide proof of professional liability insurance or errors and omissions liability insurance to protect the Foundation, Program and ED Office from any and all claims arising from the Consultant's alleged or real professional errors, omissions or mistakes in the performance of professional duties in an amount not less than One Million Dollars (\$1,000,000.00) per claim.
- T. Taxes. The Consultant shall pay all taxes and other such amounts required by federal, state and local law, including but not limited to federal and social security taxes, workers' compensation, unemployment insurance and sales taxes.
- U. Termination of Contract. This Contract may be terminated, without cause, by the Program upon fifteen (15) days written notice. This Contract may be terminated immediately for cause if the Consultant fails to perform in accordance with the terms of this Contract.
- V. Third Party Beneficiary Rights. The parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Contract shall not be construed so as to create such status. The rights, duties and obligations contained in this Contract shall operate only between the parties to this Contract, and shall inure solely to the benefit of the parties to this Contract. The provisions of this Contract are intended only to assist the parties in determining and performing their obligations under this Contract.
- W. Time is of the Essence. Time is of the essence in all provisions of the Contract.
- X. Titles Not Controlling. Titles of paragraphs are for reference only, and shall not be used to construe the language in this Contract.
- Y. Waiver. The waiver of any breach of any term or condition in this Contract shall not be deemed a waiver of any prior or subsequent breach.

### 9. Contacts.

**Administrative Point of Contact (Foundation):** 

Diane M. Wilson

Chief Financial and Administrative Officer

Nebraska Community Foundation

PO Box 83107

Lincoln, Nebraska 68501-3107

Phone: (402) 323-7330 Fax: (402) 323-7349

Email: dwilson@nebcommfound.org

**Technical Point of Contact (Program):** 

Steve Smith, P.E.

Platte River Recovery Implementation Prog.

Headwaters Corporation 2727 Bryant St., Suite 210

Denver, CO 80211 Phone: (720) 524-6115 Fax: (720) 524-6347

Email: smiths@headwaterscorp.com

**Administrative Point of Contact (Consultant):** 

Bonnie Vail Tetra Tech, Inc.

3801 Automation Way, Suite 100

Fort Collins, CO 80525 Phone: (970) 223-9600 Fax: (970) 223-7171

Email: Bonnie.Vail@tetratech.com

Admin. Point of Contact (Program):

Dr. Jerry F. Kenny, Executive Director Platte River Recovery Implementation Prog.

Headwaters Corporation 4111 4<sup>th</sup> Avenue, Suite 6 Kearney, Nebraska 68845 Phone: (308) 237-5728 Fax: (308) 237-4651

Email: kennyj@headwaterscorp.com

Media Point of Contact (Program):

Dr. Bridget Barron, Director of Outreach Platte River Recovery Implementation Prog.

Headwaters Corporation 4111 4<sup>th</sup> Avenue, Suite 6 Kearney, Nebraska 68845 Phone: (308) 237-5728

Fax: (308) 237-4651

Email: barronb@headwaterscorp.com

**Technical Point of Contact (Consultant):** 

Robert Mussetter, PhD, P.E.

Tetra Tech, Inc.

3801 Automation Way, Suite 100

Fort Collins, CO 80525 Phone: (970) 223-9600 Fax: (970) 223-7171

Email: Bob.Mussetter@tetratech.com

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NEBRASKA COMMUNITY FOUNDATION	
	5 04 (2012
Diane M. Wilson Chief Financial and Administrative Officer	Date
TETRA TECH, INC.	
MM	May 1,2012
Robert Mussetter, PhD, P.E.	7

Signatures. By signing this Contract, the parties certify that they have read and

understood it, that they agree to be bound by the terms of the Contract, that they have the

10.

authority to sign it.

### EXHIBIT "A" SCOPE OF SERVICES

### A. PROJECT DESCRIPTION

- 1. Location: approximately 98 miles of the Platte River from River Mile 254.5 (near Lexington) to River Mile 156.5 (near Chapman)
- 2. Purpose: System-level geomorphic and vegetation monitoring and data analysis for the Platte River.
- 3. History: The Platte River Recovery Implementation Program (Program) was initiated on January 1, 2007 between Nebraska, Wyoming, Colorado, and the Department of the Interior to address endangered species issues in the central and lower Platte River basin. The Program's management objectives are to 1) improve survival of whooping cranes during migration, 2) improve least tern and piping plover production, and 3) avoid adverse impacts on pallid sturgeon in the Lower Platte River. The data and analyses to be completed for this geomorphic and vegetation monitoring and data analysis project will be used to answer Program questions and hypotheses regarding alternative Program management actions to meet the Program's management objectives.

### B. PROJECT REQUIREMENTS

1. Monthly Progress Reports and Billing Statements

The Consultant shall submit a brief monthly progress report outlining the study status, progress, and results to date, regardless of whether or not a billing statement is submitted, on or before the last working day of the month. The progress report will also show the percentage of the job completed by task and the percentage of budget spent. The progress report will also include a billing projection for the upcoming month for the purpose of Program reimbursement request planning.

Each billing statement must include a task-by-task report justifying the cost items contained in the billing statement. The monthly progress report may be used as the justification for the billing statement as long as all cost items covered in the billing statement are addressed in the progress report.

- 2. Computer Models, Statement of Assumptions, Project Work File
  - a. If the Consultant writes or uses a computer program or spreadsheet as a part of this project, the Consultant shall submit to the Program for approval all

proposed program names and data formats prior to beginning work on that task. All data shall be submitted to the Program in written and digital forms with the final report. Digital media shall be labeled by the Consultant to provide sufficient detail to access the information on the media. User manuals shall be submitted by the Consultant to the Program providing complete documentation of computer programs developed under this project. The user manuals shall also contain the source code language and the type of computer equipment necessary to operate the program(s). The computer programs and spreadsheets (written and digital forms) are due on the same date as the final report, which contains the information generated by the programs.

- b. To facilitate the Program's accurate evaluation of the Consultant's work product, computations, conclusions and recommendations, the Consultant shall:
  - \* Include in the final report a section describing the assumptions and methodology used by the Consultant in generating the data and conclusions contained in that chapter.
  - \* Maintain a project work file containing the materials used in project analysis. This file will be available for review by the Program and should be organized in such a way as to allow replication of the steps and procedures used by the Consultant to reach the conclusions described in the study.
  - \* Prepare a project notebook containing a description of the assumptions and methodologies used in the project analysis. The notebook shall be organized in such a way as to allow replication of the steps, calculations, and procedures used by the Consultant to reach conclusions, described in the draft final report. The project notebook shall be submitted with the draft final report.

### 3. Final Report

The Consultant shall use the Contract Scope of Services as the outline for draft and final reports so that Consultant compliance with Contract provisions can be verified. If the final report contains information of an engineering nature, the cover of the final report, all plates, and the executive summary must be stamped and signed by a Professional Engineer licensed in the State of Nebraska or other state if appropriate to location of project site. If the final report contains information of a geologic nature, the cover of the final report, all plates, and the executive summary must be stamped and signed by a Professional Geologist licensed in the State of Nebraska. If the final report contains information of both an engineering and geologic nature, the cover of the final report, all plates, and the executive summary must be stamped and signed by both a Professional

Engineer and a Professional Geologist licensed in the State of Nebraska. At a minimum, the reproducible original to be submitted as part of the deliverables required herein must utilize an original seal(s) and original signature(s).

### 4. Final Report - Digital Format

In addition to the paper submittal described in Section C.4 above, the Consultant shall also provide the final documents and related materials in a digital format. This digital report shall, to the extent feasible, be assembled into one file rather than separate files for text, tables, graphics, etc. This digital report shall be contained on a CD(s) or DVD(s), and shall be in both Word and Adobe Acrobat format. Any plates, figures, etc. not suitable for Word shall be in AutoCAD, ArcGIS, Adobe Acrobat, or compatible format. Other formats may be used if approved in advance by the ED Office. The final documents will also be provided fully assembled into one file, in a complete "internet ready" digital format to facilitate their distribution via the Office website.

### 5. Project Access

The ED Office shall be responsible for obtaining access as required for project tasks.

### 6. Stand-By Time

The Program will not reimburse the Consultant for stand-by time charges for the Consultant's supervisory personnel.

### C. SCOPE OF SERVICES

See Exhibit A "Final Scope of Services"

1		EXHIBIT A
2 3 4	Channel	Final Scope of Services  Year 1 (May 2012 through December 2012)  Geomorphology and In-channel Vegetation Monitoring and
5		Data Analysis, Platte River, Nebraska
6 7 8 9 10	(Exhibit B), Project Timel Platte River ( Contract. Th	tasks shall be completed by Tetra Tech, Inc. in accordance with the Budget Hourly Rate and Reimbursable Expenses Price Schedule 2012 ( <b>Exhibit C</b> ) and ne ( <b>Exhibit D</b> ) during the first year (May 2012 through December 2012) of the thannel Geomorphology and In-channel Vegetation Monitoring and Data Analysise scope of work, budget and schedule for each succeeding year of the contract eveloped in consultation with the Program during the prior year activities.
12	Scope of	Work
13 14	Task 100 - F	roject Management
15 16 17 18 19	Objective:	Facilitate scoping of tasks to efficiently complete the work necessary to achieve the objectives of Platte River Recovery Implementation Program (PRRIP) Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis Project. Detailed project scoping and budgeting shall be completed under this task. Provide Program stakeholders information on project progress. Document project progress through monthly invoices and progress reports.
21 22	Activities:	Task 101 – Develop Final Scope of Services and Fee
23 24 25 26 27 28		<ul> <li>Task 102 - Project Management and Meetings:</li> <li>Conduct telephone and/or in-person meetings as necessary to coordinate project activities and to keep the Executive Director's Office (EDO), Technical Advisory Committee (TAC) and Governance Committee (GC) informed of project progress.</li> </ul>
29 30 31	Deliverables	
32 33		<ul> <li>Draft minutes in Microsoft Word format provided to ED office for review/comment.</li> </ul>
34		o Final minutes in PDF format.
35 36 37 38		<ul> <li>Monthly invoices to the ED office, including a summary of work completed in the current month, anticipated work for the following month, and percent complete for scope of work and budget by task.</li> </ul>
39 40 41 42 43	Information/	<ul> <li>Service to be Provided by EDO Office Staff:</li> <li>Data from ongoing Program data collection efforts.</li> <li>Timely review and comments on draft scope of work, meeting minutes and related documents.</li> </ul>



### Meetings/Travel:

Objective:

- Meetings to be held by telephone conference.
- Other meetings as described below.

### Task Series 200 Field Monitoring Tasks

### 

Conduct annual geomorphic and in-channel vegetation data collection and monitoring in accordance with the Channel Geomorphology and In-Channel Vegetation Monitoring Protocol (PRRIP, 2010) (hereinafter referred to as the *Monitoring* Protocol) to document trends in channel geomorphology and provide system-wide status in areal cover and elevation range of in-channel seeding and invasive vegetation.

### 

Monitoring Area: The annual monitoring and data collection shall be conducted at 25 previously identified Anchor Points (APs) in the PRRIP habitat area, which consists of channels within an area 3.5 miles either side of the centerline of the Platte River from the junction of U.S. Highway 283 and Interstate 80 near Lexington, Nebraska, to Chapman, Nebraska (approximately 95 miles).

### 

 The monitoring shall occur during an annual low flow (ideally between 250 and 500 cfs) that typically occurs between July 1 and August 31 to maximize the amount of data available to track changes in channel topography and vegetation. Although monitoring will ideally be completed during low flows, monitoring shall be completed annually even in years when flows remain high.

### 

### Activities:

Timing:

### Task 201 - Field Preparation

 Prepare field plans and assemble and set up field equipment and data collection sheets and devices.

### Task 202 - Bathymetric and Topographic Survey of Transects

 Bathymetric and topographic surveys shall be conducted at three transects at each of the 25 APs following procedures in Sections III.B.1. and III.B.2. of the Monitoring Protocol.

### Task 203 - In-Channel Vegetation Surveys

 In-channel vegetation surveys shall be conducted at each of the 25 specified APs in accordance with Section III.C. of the Monitoring Protocol.

### Task 204 - Bed Material Sampling

 Bed-material sampling shall be conducted at each of the 25 specified APs in accordance with Section III.D. of the Monitoring Protocol.

### Task 205 -Sediment Transport Measurements

 Bed-load and depth-integrated suspended sediment sampling shall be conducted up to six times at bridge crossings near Lexington (SH-L24A/Road), Overton (SH-L24B/Road 444), Kearney (SH-44/S. 2nd Avenue), Shelton (SH-L10D/Shelton Road), and Grand Island (US-34/Schimmer Drive) in accordance with Section III.H.1. of the Monitoring Protocol.

94

95 96 97		<ul> <li>Compile and catalog field data and field photos, organize spreadsheets and prepare database of raw data.</li> </ul>
98 99	Deliverables:	Field data and photographs (See Task 400 – Reporting).
100 101	Meetings/Tra	vel: As necessary to complete field surveys.
102	Task Series	300 – Data Analysis
103		
104 105 106 107 108	Objective:	Review and recommend revisions to the draft Data Analysis Plan that has been developed by the ED Office and the previous contractor, as appropriate, and implement the final plan to provide an analysis of the channel geomorphology and in-channel vegetation data. The analysis shall be performed on both the previously collected 2009, 2010 and 2011 data and the data to be collected in
109		2012 under this contract.
110 111 112 113 114	Activities:	<ul> <li>Task 301 – Review and revise draft Data Analysis Plan</li> <li>Review the draft plan and provide recommendations to the ED Office on appropriate revisions, focusing on analytical methods that will directly answer key Program questions and test relevant Program hypotheses.</li> </ul>
115		Tank 202 Procentation of Data Analysis Plan
116		Task 302 – Presentation of Data Analysis Plan
117 118 119		<ul> <li>Participate in TAC meeting to present proposed data analysis plan and receive TAC comments. Finalize draft data analysis plan based on TAC input.</li> </ul>
120		
121		Task 303 – Implement Data Analysis Plan
122 123 124		<ul> <li>Perform the analyses described in the revised plan. During Year 1 activities, the data analysis will include the previously collected 2009, 2010 and 2011 data. Multivariate analysis will not be performed during Year 1.</li> </ul>
125	Dallaranalataa	
126	Deliverables:	
127 128		Recommended revisions to the Draft Data Analysis Plan – to be provided in MS Word Track Changes mode.  Pate analysis agetting of the analysis aparting.  Pate analysis agetting of the analysis analysis Plan – to be provided in MS Word Track (200 – Reporting).
129		<ul> <li>Data analysis section of the annual report (see Task 400 – Reporting).</li> </ul>
130	Mostings/Tra	wal. One TAC meeting in Koornov, Nebrooke
131 132	weetings/ ira	vel: One TAC meeting in Kearney, Nebraska.
	Took Sovies	400 - Reporting
133	rask series	400 - Reporting
134	Ohiootivo	Develop a draft (Migrosoft Word) and final (Migrosoft Word and DDE) appual
135 136	Objective:	Develop a draft (Microsoft Word) and final (Microsoft Word and PDF) annual report that includes methods, results, data analysis (as specified in the Data
137		Analysis Plan), photographs of field work, and other associated data. Reports
138		shall be delivered electronically to the ED Office for review and comment by the
139		ED Office and the Program's Technical Advisory Committee (TAC). Annual
140		monitoring data shall be uploaded to the Program's online database in a format
141		consistent with other Program data. Prepare for and participate in the Program's

Task 206 - Field Data Reduction

### TETRA TECH

142	annual AMP Reporting Session neid in early March of each year. Preparation
143	shall include development of an Executive Summary and presentation of annual
144	activities and findings.
145	· ·
146	Activities:
147	Task 401 – Annual Report
148	Prepare draft annual reports.
149	<ul> <li>Address EDO and TAC comments, and prepare final annual report.</li> </ul>
150	
151	Task 402 – Annual AMP Reporting Session <sup>1</sup>
152	<ul> <li>Prepare Executive Summary and presentation.</li> </ul>
153	Participate in the AMP Reporting Session.
154	, ,
155	Deliverables:
156	Draft annual report.
157	<ul> <li>Final annual report addressing EDO and TAC comments on the draft report.</li> </ul>
158	σ · · · · · · · · · · · · · · · · · · ·
159	Meetings/Travel: None.
160	

Participation in the annual AMP Reporting Session, typically held in March, is anticipated. Cost to prepare and participate is not included in the Year 1 budget.

Page 4 of 8

April 23, 2012

## 

Year 1 (May 2012 through December 2012)

# Vegetation Monitoring and Data Analysis, Platte River, Nebraska Cost Estimate for Channel Geomorphology and In-channel

Total by Task		7,651	1,777	5.874	355,515	12,940	93,590	123,562	43,952	61,686	19,785	83,595	10,039	6,994	66,502	27,688	27,688	-		474,449
101		<b>∞</b>	S	S	3	S	ري د	0 8	S	\$	8	s O	°	S	s	434 \$	\$	S		<del>49</del>
Direct Costs*		\$ 2,269	s	\$ 2.269	\$ 94,033	ş	\$ 22,431	\$ 29,380	\$ 28,461	\$ 13,434	\$ 326	\$ 1,430	s	\$ 1,430	Ş	\$ 43	\$ 434			\$ 98,166 \$
Labor Cost		5,382	1.777.1	3,605	261,482 \$	12,940		94,182	15,491	48,252	19,459	82,165	10,039	5,564	66,502	27,254	27.254	i		376,283
<u>"</u>		s	S	S	s	S	S	s	S	s	s	s	ø	3	o	s	s	S		<b>↔</b>
Clerical	\$78.80	4	2	2	28		5	s)	5	\$	8	2	2			80	8		42	\$3,309
Draftsman/ Technician	\$68,50				880	8	230	560	50		32	252			252	16	16		1148	\$78,632
Staff Ecologist/ Technician	\$88.58			_	544	24		280		240						16	16		88	\$49,605
Staff Biologist	\$94.25				368	24		280		****	\$	112		Ţ	112	16	16		86	\$46,746
Junior Engineer/Sci entist	\$99.40				809	24	230		50	240	64	67	12		92	16	16		69	\$68,682
Engineer/ Scientist	\$106.61				312	16	230		20		16	8	8			24	24		34	\$36,672
Senior Engineer/ Scientist	\$114.85	4		4	*	4	10		4	8	8	22			22	60	60		88	608'2\$
Licensed Surveyor	\$120.00				54	8	16		1		_								24	\$2,880
Statistical Ecologist	\$156.05				4	4						136	24		112	32	32		172	\$26,841
Senior Biologist	\$176.65	60	4	4	36	8		24			4	62	eo	16	38	40	40		146	\$25,790
Principal Engineer/ Geomorphologist	\$228.15	14	*	10	38	2	20		4	8	4	53	12	12	23	24	24		129	\$29,317
Description	1	Project Initiation and Management	Finalize Scope and Fee	Project Management and Meetings	Field Monitoring	Field preparation	Bathymetric and Topographic Surveys	In-channel Vegetation Surveys	Bed Material Sampling	Sediment transport measurements	Data Reduction	Data Analysis	Review and Revise Draft Data Analysis Plan	Participate in TAC Meeting	Implement Data Analysis Plan	Reporting	Annual Report	Annual AMP Reporting Session**	Total Hours	TOTAL COST
Subtask		100	101	102	200	201	202	203	204	205	208	300	301	302	303	1	l	402		

\*fretudes G&A (13.46%)
\*\* Participation in the annual AMP Reporting Session, typically held in March, is anticipated. Cost of preparation and participation is not included in the Year 1 budget.

April 23, 2012



# EXHIBIT B (CONTINUED)

Year 1 (May 2012 through December 2012)

# Vegetation Monitoring and Data Analysis, Platte River, Nebraska Other Direct Costs for Channel Geomorphology and In-channel

The state of the s	10.00	-	Task 100	-	ľ	Task 202	Ţ	Task 203		Task 204		Task 205	205	ř	Task 206		Task 302	2	Task 401		Total w/ 13.46%
(fem	is control	ğ	ರ	Cost	è	Cost	å	Cost	ð	Cost	ð		Cost	ð	Cost	ð	Cost		Qly Cost		OH Mark-up
Airine Tickets	\$400	-	89	400,00	S	,	67	\$ 1,200.00		s	L	s,		ľ	· •?	_	1 8 4	400.00	\$	8	2,269.20
and and a second	SO.550 /mi	700	\$	┿~	100	55.00	57	1	2100 \$	\$ 1,155.00	00 5100	8 00	2,805.00	ļ"	·	400	s	220.00	s	s -	5,241.85
Mileage (4x4)	\$1.00 /mi.	98	s		250 \$		ľ				-	s			•	L	S		s	s -	1,077.87
Lodging and per diem	\$120 /day	2	s	240.00	\$ 69	8,280.00	112 \$	13,440.00	35	\$ 1,800.00	.00 48	\$   \$	5.760.00	\$	-	3	8	360.00	s	S	33,901.85
Parking	\$15 /day		s	,	S		3	45.00				s	,	Ľ	,	7	s	30.00	s	· σ	85.10
Rental Car (including gas)	\$125 /day	2	S	250.00	s	*	28	3,500.00		· ·	-	s,	,	L	,,	7	\$	250.00	s	. 8	4,538.40
RFK-GPS Suney Equipment (base station, 2 rovers)	\$2,500 /week		S	ļ-	3	7,500,00	57		-	\$ 2,500,00	86	s	,	ــــــــــــــــــــــــــــــــــــــ	,		S	•	S		11,346.00
RFK-GPS Suney Equipment (1 rover)	\$900 /day		G	,	8	*	4	3,600.00				s		<u> </u>	s	-	s	•	\$		4,084.58
Foho Sounder	\$625 /dav		s	,		625.00	57			8	<u>_</u>	\$	,		•		υ'n	•	¢9	1	709.13
Air Boat	\$250 /day		s		10 \$	°i	15 8	\$ 3,750.00	3	\$ 750.00	8	S		<del>ـــّــ</del>	s	_	s	-	s	. \$	7,942.20
Infatable Kavak	\$50 /week		s		8	200.00	<u> </u>			s	-	¢>		<u> </u>	8		s	,	s	. \$	226.92
Lab. Analysis of Bed and Bar Material Sediment Sam \$75 /sample	n \$75 /sample		S		\$	ľ	ľ		250	\$ 18,750.00	8	S	,	<u> </u>			s	•	s	- 8	21,273,75
l ab. Analysis of Bedload Samples	\$85 /samole				<u></u>		-			8	30	\$	2,550.00							S	2,893.23
ll ab. Analysis of Suspended Sediment Samples	\$100 /sample		s	,	G	,	"	- 8		8	- 5	s	500.00		•		s	,	s	\$	567.30
Expendable Field Supplies	S			-	S	250.00	s	250.00		\$ 100	100.00	s	200.00				ŝ		s	-	907.68
Colorlaserorins	\$0.50 /sheet		s	-	120 \$	00.09	120 \$	90.00	20	s	10.00	20 \$	10.00	50 \$	, 25,00	c	s	-	80	25.00 \$	215,57
Misc Communications (Telephone, fax, shipping)	S		s	25.00	65	20.00	S	50.00		\$ 20	20.00	<b>(4)</b>	15.00	S	15.00	0	\$	,	s	50.00	255.29
TOTAL DIRECT COSTS			\$ 2,0	00.000	65	19,770.00	57	\$ 25,895.00		\$ 25,085.00	00	\$1.	\$11,840.00	\$	287.50	,	\$ 1,260.00	30.00	₩	2.50 \$	382.50 \$ 98,165.59

April 23, 2012



### **EXHIBIT C**

### Year 1 (May 2012 through December 2012)

### **RATE SCHEDULE**

PERSONNEL:	Hourly Rate*
Principal Engineer/Geomorphologist	\$228.15
Senior Biologist	\$176.65
Statistical Ecologist	\$156.05
Licensed Surveyor	\$120.00
Senior Engineer/Scientist	\$114.85
Engineer/Scientist	\$106.61
Junior Engineer/Scientist	\$99.40
Staff Biology	\$94.25
Staff Ecologist/Technician	\$88.58
Draftsman/Technician II	\$68.50
Word Processor/Clerical	\$78.80

### IN HOUSE EQUIPMENT:

### Rate

Computer charges	\$1.64 per labor hour
Truck (4 x 4)	\$1.00/mile
Automobile	Approved GSA Rates for
	Privately Owned Vehicles
Boat (16-ft inflatable)	\$125.00/day
Jet boat (18-ft)	\$225.00/day
Inflatable kayak	\$10.00/day
Level & Sonic Sounder	\$10.00/day
RTK GPS equipment	\$1,800/week
Echosounder	\$625/week
ADCP Unit	\$1,500/week
ADCP with GPS equipment	\$3,000/week
ADCP with GPS equipment and Echosounder	\$3,500/week
Total Station	\$10.00/hour
Current Meter	\$50.00/day
Water Quality Meter	\$30.00/day
-	•

### IN HOUSE REPRODUCTION:

8 ½ x 11 paper	\$ 0.10/sheet
Plotter (black & white)	\$5.00/sheet
Plotter (color)	\$7.50/sheet

\*Hourly rates for deposition and court time associated with expert witness support will be charged at 1.5 times the indicated rate. Permit fees, processing fees, bonds, etc. will be the responsibility of the client. All other direct costs including travel, lodging, meals and incidentals for personnel, special photography, postage, delivery services, express mail, out-of-area telephone calls, printing by outside vendor, laboratory analysis, and any other services performed by outside vendor will be billed at cost plus G&A of 13.46%. Subcontract services will be charged to the client with a 10% service fee. Tetra Tech (TT) is not liable for damages caused by delays in performance of the above work, which arise from events beyond our reasonable control. TT is not responsible for damages or losses incurred through the use of studies, plans, recommendations or cost estimates in excess of the fees paid to TT for these services. Monthly progress payments shall be due and payable by the Client within 30 days after submittal of the bill for such work by TT. The progress payment shall include the portion of the fee earned based upon the percentage of work performed, as determined by TT. Payment due but unpaid within 30 days after submission of the bill shall bear interest at the rate of 1½% per month until paid. If client should fall to pay within ninety (90) days after the bill is rendered, TT shall have the right, upon seven (7) days written notice to the Client, to stop work on the project until payment of the amount owed, including all interest charges, has been received.



# 

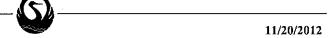
# Year 1 (May 2012 through December 2012) Project Timeline

100         Project Initiation and Management           101         Finalize Scope and Fee           102         Project Manatement and Meetings           200         Field Monitoring           201         Bathymetric and Topographic Surveys           202         In-channel Vegetation Surveys           203         Bed Material Sampling           204         Sediment transport measurements           205         Data Reduction           300         Data Analysis           300         Data Analysis		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
Finalize Scope and Fee Project Manatement and Meetings Field Monitoring Bathymetric and Topographic Surveys In-channel Vegetation Surveys Bed Material Sampling Sediment transport measurements Data Reduction Data Analysis					
Project Manatement and Meetings  Field Monitoring Bathymetric and Topographic Surveys In-channel Vegetation Surveys Bed Material Sampling Sediment transport measurements Data Reduction Data Analysis					
d Topographic Surveys station Surveys ampling port measurements					
d Topographic Sureys station Surveys ampling port measurements to Date Analysis					
ampling our measurements to the first firs		<b>1</b>			
port measurements (1. 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1		7	 		
bort measurements to If If If It is		-			Contract Contract and Property September 1
Data Reduction Data Analysis				1 1 1	1 1 1
Data Analysis	57.00 CO.				
Basion and Basica Brafe Data Analysis					
Newey and Newser Dian Data Aliaysis					
Participate in TAC Meeting					
303 Implement Data Analysis Plan   3 3	3 3 3 3 3	3 3 3			
Reporting					
Annual Report					
Annual AMP Reporting Session**					

De to be sets of measurements in accordance with section in the sets of measurements and sets of measurements. The sets is Evaluation of 2009, 2010, and 2011 data sets.

Delivery of draft annual report and associated database and photos.

April 23, 2012



### PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM

First Amendment to the Agreement between the Nebraska Community Foundation, Inc. and Tetra Tech, Inc., regarding "Platte River Geomorphology and Vegetation Monitoring and Data Analysis"

 This First Amendment to the Agreement between the Nebraska Community Foundation, Inc. ("Foundation") of Lincoln, Nebraska, representing all signatories to the Platte River Recovery Implementation Program ("Program"), and Tetra Tech, Inc. ("Consultant"), a private consultant of Fort Collins, Colorado, is made and entered into effective on the date of signing below and the final date of this Amendment will be May 1, 2014.

### The purpose of this amendment is to:

PRRIP - ED OFFICE FINAL

(1) Expand the Scope of Work to include the second year of system-scale geomorphology and vegetation monitoring and data analysis anticipated under the original contract. This Scope of Work, presented in Exhibit A, will commence after January 1, 2013 and be completed by May 1, 2014.

(2) Increase the contract amount by \$477,736 for the purpose of funding the work to be completed in Exhibit A. This will increase the total approved budget for this contract from \$474,449 to \$952,185. This budget increase shall be effective as of the date of this Amendment and funds will become available on January 1, 2013 if the 2013 budget is approved by the GC. The detailed Amendment 1 budget, and Consultant rate schedule, and project schedule are presented in Exhibit B.

### Important Amendment notes:

(1) This is the First Amendment to the Agreement. Exhibit C includes the Original Agreement.

 (2) The agreement is conceived as a four-year monitoring and data analysis commitment. The Consultant will provide professional services under this Amendment for the second year of the project, which extends through May 1, 2014. General work items include geomorphology and vegetation monitoring and data analysis, and participation in the annual AMP reporting session that will be held in the spring of 2014.

(3) The funds authorized by this Amendment in the amount of \$477,736 will only be utilized if approved by the Governance Committee in the Program FY 2013 budget. A Notice to Proceed will be given to the Consultant by the Executive Director's Office in January of 2013 if the budget is approved.

All other terms of the original Agreement remain in effect as originally written in the Agreement dated April 23, 2012. The following parties agree to the terms of this Amendment and the original Agreement:



### PRRIP - ED OFFICE FINAL

11/20/2012

40	For the Consultant:	
41		
42		
43	11. MX	N 7 2.12
44		Dec 7, 2012
45	Robert A. Mussetter, PhD, PE	Date
46	Discipline Lead	
47	Tetra Tech, Inc.	
48		
49	For the Foundation:	
50		
51	6	
52		
53	Jan Marie Lander	12/11/2012
54	Diane M. Wilson	Date
55	Chief Operating Officer/Chief Financial Officer	
56	Nebraska Community Foundation, Inc.	



### PRRIP - ED OFFICE FINAL

11/20/2012

57

**EXHIBIT A** 

58

1			EXHIBIT A
2 3 4		Geomo	Final Scope of Services (January 2013 through December 2013) rphology and In-channel Vegetation Monitoring and
5		L	Pata Analysis, Platte River, Nebraska
6 7 8 9 10 11	(Exhibit B), I Project Timeli Platte River C Contract. Th	Hourly Rat ine (Exhib Channel Ge e scope o	all be completed by Tetra Tech, Inc. in accordance with the Budget te and Reimbursable Expenses Price Schedule 2012 (Exhibit C) and wit D) during the first year (May 2012 through December 2012) of the ecomorphology and In-channel Vegetation Monitoring and Data Analysis f work, budget and schedule for each succeeding year of the contract in consultation with the Program during the prior year activities.
12	Scope of	Work	
13	Task 100 - F	roject Ma	anagement
14 15 16 17 18 19 20	Objective:	the object Channel Analysis under this	scoping of tasks to efficiently complete the work necessary to achieve ctives of Platte River Recovery Implementation Program (PRRIP) Geomorphology and In-channel Vegetation Monitoring and Data Project. Detailed project scoping and budgeting shall be completed a task. Provide Program stakeholders information on project progress. It project progress through monthly invoices and progress reports.
21 22	Activities:	Task 101	- Develop Final Scope of Services and Fee
23 24 25 26 27 28 29	Deliverables:	<ul> <li>Conduproject</li> <li>Advise project</li> </ul>	- Project Management and Meetings:  uct telephone and/or in-person meetings as necessary to coordinate act activities and to keep the Executive Director's Office (EDO), Technical bry Committee (TAC) and Governance Committee (GC) informed of the progress.
30 31		• Draft	and final scope of work, schedule, and budget. ng minutes from all Project Management meetings.
32 33		0	Draft minutes in Microsoft Word format provided to ED office for review/comment.
34		o	Final minutes in PDF format.
35 36 37 38		0	Monthly invoices to the ED office, including a summary of work completed in the current month, anticipated work for the following month, and percent complete for scope of work and budget by task.
39 40 41 42 43	Information/S	<ul><li>Data f</li><li>Timely</li></ul>	be Provided by EDO Office Staff: rom ongoing Program data collection efforts. y review and comments on draft scope of work, meeting minutes and documents.



### Meetings/Travel:

Objective:

Timing:

- Meetings to be held by telephone confer ence.
- · Other meetings as described below.

### Task Series 200 Field Monitoring Tasks

Conduct annual geomorphic and in-channel vegetation data collection and monitoring in accordance with the Channel Geomorphology and In-Channel Vegetation Monitoring Protocol (PRRIP, 2010) (hereinafter referred to as the *Monitoring* Protocol) to document trends in channel geomorphology and provide system-wide status in areal cover and elevation range of in-channel seeding and invasive vegetation.

Monitoring Area: The annual monitoring and data collection shall be conducted at 25 previously identified Anchor Points (APs) in the PRRIP habitat area, which consists of channels within an area 3.5 miles either side of the centerline of the Platte River from the junction of U.S. Highway 283 and Interstate 80 near Lexington, Nebraska, to Chapman, Nebraska (approximately 95 miles).

The monitoring shall occur during an annual low flow (ideally between 250 and 500 cfs) that typically occurs between July 1 and August 31 to maximize the amount of data available to track changes in channel topography and vegetation. Although monitoring will ideally be completed during low flows, monitoring shall be completed annually even in years when flows remain high.

### Activities: Task 201 - Field Preparation

 Prepare field plans and assemble and set up field equipment and data collection sheets and devices.

### Task 202 - Bathymetric and Topographic Survey of Transects

  Bathymetric and topographic surveys shall be conducted at three transects at each of the 25 APs following procedures in Sections III.B.1. and III.B.2. of the Monitoring Protocol.

### Task 203 – In-Channel Vegetation Surveys

  In-channel vegetation surveys shall be conducted at each of the 25 specified APs in accordance with Section III.C. of the Monitoring Protocol.

### Task 204 - Bed Material Sampling

  Bed-material sampling shall be conducted at each of the 25 specified APs in accordance with Section III.D. of the Monitoring Protocol.

Task 205 – Sediment Transport Measurements

Bed-load and depth-integrated suspended

  Bed-load and depth-integrated suspended sediment sampling shall be conducted up to six times at bridge crossings near Lexington (SH-L24A/Road), Overton (SH-L24B/Road 444), Kearney (SH-44/S. 2nd Avenue), Shelton (SH-L10D/Shelton Road), and Grand Island (US-34/Schimmer Drive) in accordance with Section III.H.1. of the Monitoring Protocol.

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	<ul> <li>Compile and catalog field data and field photos, organize spreadsheets and prepare database of raw data.</li> </ul>
Deliverables:	Field data and photographs (See Task 400 – Reporting).
Meetings/Tra	vel: As necessary to complete field surveys.
Task Series	300 – Data Analysis
Objective:	Implement the data analysis plan to provide an analysis of the channel geomorphology and in-channel vegetation data. The analysis shall incorporate the 2013 data into the previously analyzed data from 2009, 2010, 2011 and 2012.
Activities:	<ul> <li>Task 301 – Review and revise draft Data Analysis Plan</li> <li>NO activity; completed in Year 1.</li> </ul>
	Task 302 – Presentation of Data Analysis Plan
	<ul> <li>Participate in TAC meeting to present proposed data analysis plan and receive TAC comments. Finalize draft data analysis plan based on TAC input.</li> </ul>
	<ul> <li>Task 303 – Implement Data Analysis Plan</li> <li>Perform the analyses described in the revised plan. During Year 1 activities, the data analysis will include the previously collected 2009, 2010 and 2011 data. Multivariate analysis will not be performed during Year 1.</li> </ul>
Deliverables:	
Deliverables.	<ul> <li>Recommended revisions to the Draft Data Analysis Plan – to be provided in MS Word Track Changes mode.</li> <li>Data analysis section of the annual report (see Task 400 – Reporting).</li> </ul>
Meetings/Tra	vel: TAC Meeting in Kearney, NE.
Task Series	400 - Reporting
	100 10ps9
Objective:	Develop a draft (Microsoft Word) and final (Microsoft Word and PDF) annual report that includes methods, results, data analysis (as specified in the Data Analysis Plan), photographs of field work, and other associated data. Reports shall be delivered electronically to the ED Office for review and comment by the ED Office and the Program's Technical Advisory Committee (TAC). Annual monitoring data shall be uploaded to the Program's online database in a format consistent with other Program data. Prepare for and participate in the Program's annual AMP Reporting Session held in early March of each year <sup>1</sup> . Preparation shall include development of an Executive Summary and presentation of annual activities and findings.
1 Participation in	the annual AMP Reporting Session, typically held in March, is anticipated. Cost to prepare and included in the Year 2 budget.

Task 206 - Field Data Reduction

November 12, 2012



141		
142	Activities:	
143	Tas	sk 401 – Annual Report
144	•	Prepare draft annual reports.
145	•	Address EDO and TAC comments, and prepare final annual report.
146		
147	Tas	sk 402 – Annual AMP Reporting Session <sup>1</sup>
148	•	Prepare Executive Summary and presentation.
149	•	Participate in the AMP Reporting Session.
150		
151	Deliverables:	
152	•	Draft annual report.
153	•	Final annual report addressing EDO and TAC comments on the draft report.
154		
155	Meetings/Travel:	None.
156	<del>-</del>	



### PRRIP - ED OFFICE FINAL

11/20/2012

59 60 **EXHIBIT B** 

### 

Year 2 (January 2013 through December 2013)

# Vegetation Monitoring and Data Analysis, Platte River, Nebraska Cost Estimate for Channel Geomorphology and In-channel

		Principal Engineer/	Sanior	Statistical	l Joneson	Senior		Junior	#240		Drafteman/					
Subtask	Description	Geomorphologist	Biologist	Ecologist	Surveyor	Engineer/ Scientist	Scientist	Engineer/Sci entist	Biologist	Ecologist/ Technician	Technician	Clerical	Labor Cost	Direct Costs*	Total by Task	y Task
		\$234.99	\$181.94	\$160.73	\$123.60	\$118.29	\$109.80	\$102.38	\$97.07	\$91.24	\$70.55	\$81.16				
100	Project Initiation and Management	14	8			4						*	\$ 6,543 \$	\$ 2,269	\$	7,812
101	Finalize Scope and Fee	*	4									2	\$ 1.830	69	\$	1,530
102	Project Management and Mootings	10	*			4						2	\$ 3,713	\$ 2,269	\$	5,982
200	Field Monitoring	38	36	4	77	z	342	654	384	3	918	28	\$ 281,566	\$ 96,620	50	378,185
201	Fletd preparation	. 2	8	4	80	4	16	24	24	54	8		\$ 13,328	u9	₩.	13,328
202	Bathymothe and Topographic Surveys	20			16	ē	260	260			260	9	\$ 81,776	\$ 23,556	8	105,432
203	In-channel Vegetation Surveys		24						280	280	280	2		_	59	127.749
204	Bod Matorial Sampling	¥				4	20	20			20	9	\$ 15,955	\$ 28,461	\$	44,417
205	Sediment transport measurements	8				80		240		240		s	\$ 49,701		63	3
206	Data Reduction	4	*			80	16	80	80		65	100	\$ 23,798	sh	326 \$	24,124
300	Data Analysis	40	48	99		24		9	80		120		\$ 53,633	\$ 1,679	**	56,312
394	Review and Revise Draft Data Analysis Plan													\$		•
302	Participate in TAC Moeting	12	18										\$ 5,731	\$ 1,679	\$	7,410
303	Imploment Data Analysis Plan	22	32	3		72		99	28		120		\$ 47,902	<b>5</b> 27	ş	47,902
400	Reporting	36	25	32	1	8	24	24	24	16	20	30	\$ 35,115	1,311	۰,	36,426
401	Annual Report	24	40	33		2	24	16	16	16	91	80	\$ 28,071	.,	434	28,505
402	Annual AMP Reporting Session**	12	12					æ	80		4	2	5 7,043	<b>₩</b>	878 \$	7,921
	Total Hours	128	144	100	24	70	386	738	488	095	1058	42				
	TOTAL COST	620,052	\$26,199	\$16,073	\$2,966	\$8,280	\$40,187	\$75,556	\$47,370	\$51,094	\$74,642	\$3,409	\$ 375,856 \$	\$ 101,880 \$		477,736
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										ĺ				l	

\*Includes G&A (13.46%)

### EXHIBIT B (CONTINUED)

Year 2 (January 2013 through December 2013)

# Vegetation Monitoring and Data Analysis, Platte River, Nebraska Other Direct Costs for Channel Geomorphology and In-channel

Total		3,200.00	4,840,00	350.00	30,960,00	75.00	4,000.00	10,000,00	3,600.00	625.00	7,000.00	200.00	18,750,00	2,550.00	500,00	800.00	190,00	225.00	C 89 020 00
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Heat Heat		Airline Tickets	Mileage	//lleage (4x4)	Lodging and per diem	Parking	Rental Car (Including gas)	stion, 2 rovers)	RFK-GPS Survey Equipment (1 rover)	Echo Sounder	Air Boat	Inflatable Kayak	Lab. Analysis of Bod and Bar Material Sodiment Sam \$75 /sample	Lab. Analysis of Bedload Samplos	Sediment Samples	Expendable Field Supplies	Color lasor prints \$0	Misc. Communications (Telephone, fax, shipping)	TOTALDIRECT COSTS

November 12, 2012



### RATE SCHEDULE

Year 2 (January 2013 through December 2013)

PERSONNEL:	Hourly Rate*
Principal Engineer/Geomorphologist	\$234.99
Senior Biologist	\$181.94
Statistical Ecologist	\$160.73
Licensed Surveyor	\$123.60
Senior Engineer/Scientist	<b>\$118.29</b>
Engineer/Scientist	\$109.80
Junior Engineer/Scientist	\$102.38
Staff Biology	\$ 97.07
Staff Ecologist/Technician	\$ 91.24
Draftsman/Technician II	\$ 70.55
Word Processor/Clerical	\$ 81.16
IN HOUSE EQUIPMENT:	Rate
Computer Use	\$1.64 per labor hour
Automobile	Approved GSA Rates for
	Privately Owned Vehicles
Airboat	\$300.00/day
Cataraft (16-ft)	\$100.00/day
Cataraft (14-ft)	\$100.00/day
Jet boat (18-ft)	\$225.00/day
Inflatable kayak	\$50.00/day
Zodiak (9-ft)	\$100.00/day
RTK GPS Equipment	\$1,800/week
Echosounder	\$625/week
ADCP Unit	\$1,500/week
ADCP with GPS Equipment	\$3,000/week
ADCP with GPS Equipment and Echosounder	\$3,500/week
Hypack	\$60/day
IN HOUSE REPRODUCTION:	
8 1/4 v 11 naper	\$ 0.10/sheet

8 ½ x 11 paper \$ 0.10/sheet Plotter (black & white) \$5.00/sheet Plotter (color) \$7.50/sheet

Permit fees, processing fees, bonds, etc. will be the responsibility of the client. All other direct costs including travel, lodging, meals and incidentals for personnel, special photography, postage, delivery services, express mail, out-of-area telephone calls, printing by outside vendor, laboratory analysis, and any other services performed by outside vendor will be billed at cost plus G&A of 13.46%. Subcontract services will be charged to the client with a 10% service fee. Tetra Tech (TT) is not liable for damages caused by delays in performance of the above work, which arise from events beyond our reasonable control. TT is not responsible for damages or losses incurred through the use of studies, plans, recommendations or cost estimates in excess of the fees paid to TT for these services. Monthly progress payments shall be due and payable by the Client within 30 days after submittal of the bill for such work by TT. The progress payment shall include the portion of the fee earned based upon the percentage of work performed, as determined by TT. Payment due but unpaid within 30 days after submission of the bill shall bear interest at the rate of 1½% per month until paid. If client should fail to pay within ninety (90) days after the bill is rendered, TT shall have the right, upon seven (7) days written notice to the Client, to stop work on the project until payment of the amount owed, including all interest charges, has been received.

<sup>\*</sup>Hourly rates for deposition and court time associated with expert witness support will be charged at 1.5 times the indicated rate.



# Year 2 (January 2013 through December 2013)

### **Project Timeline**

Subtask	د  Description	L	May		Ĺ	June	-	ح	July	L	August	1st	Se	September	ber	L	October	e.	ž	November	ber	De	December	ber
100	Project Initiation and Management		<u> </u>	_					_					_			<u> </u>	_		_	_	_		
101	Finalize Scope and Fee			_		-									_		<u></u>	_			_		-	
102	Project Manatement and Meetings																							
200	Field Monitoring											_		_				_						
201	Bathymetric and Topographic Surveys		_											-	_		-			H	ļ			_
202	In-channel Vegetation Surveys													_			-			-	_		-	_
203	Bed Material Sampling		-			_								_	_		-	_		-	_		-	
204	Sediment transport measurements			- -			-	,  -	÷	- -			F			-	1	I	٦		-	÷	ŀ	
205	Data Reduction		-					_		- 77							_	_		-			_	
300	Data Analysis		-									-		-			-			_	_		_	
301	Review and Revise Draft Data Analysis Plan											<u> </u>		<b></b>										
302	Participate in TAC Meeting		-		ΟΊ	_			_					-			$\vdash$				_		_	
303	Implement Data Analysis Plan	-	L					_															_	
400	Reporting					_		_				-			_		-	_		_	_		_	_
401	Annual Report					-									_									
402	Annual AMP Reporting Session - See Note 3, below.								,															
-	Up to 6 sets of measurements in accord	lance	with	Section	n III H	1. of t	he Mo	nitorir	Indance with Section III.H.1. of the Monitoring Protocol. Specific timing dependent on flow levels.	000	Spec	ific fin	p guir	eper	dent	on 10	wley	els.						
<b>~</b> 1		is time.																						
m	Meeting not shown in timeline; typically o	ly occurs in February	sinFe	ebrua:	≥																			
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Delivery of draff annual report and associated database and photos.



PRRIP – ED OFFICE FINAL

11/20/2012

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**EXHIBIT C** 



Tetra Tech 3801 Automation Way Suite 100 TIN# 97-4148514 Nebraska Community Foundation, Inc. PO Box 83107 Lincoln, NE 68501-3107 TIN# 47-0769903

### PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM

Contract between Nebraska Community Foundation, Inc., Platte River Recovery Implementation Program, and Tetra Tech, Inc.

### Platte River Geomorphology and Vegetation Monitoring and Data Analysis

- 1. Parties. This Contract is made and entered into by and between the Nebraska Community Foundation, Inc. ("Foundation") of Lincoln, Nebraska, representing all signatories to the Platte River Recovery Implementation Program ("Program") and Tetra Tech, Inc. ("Consultant"). The following persons are authorized to represent the parties through this Contract: Diane Wilson of the Foundation, Dr. Jerry Kenny of the Program; and Dr. Robert Mussetter of the Consultant.
- 2. <u>Purpose of Contract</u>. The purpose of this Contract is to allow the Foundation, acting as the fiscal agent for the Governance Committee (GC) of the Program, to retain the services of the Consultant to render certain technical or professional services hereinafter described in connection with an undertaking to be financed by the Program, and to delegate the Executive Director's Office ("ED Office") through its Executive Director or his designee the authority to administer this Contract.

### TERMS AND CONDITIONS

3. <u>Term of Contract and Required Approvals</u>. This Contract is effective when all parties have executed it and all required approvals have been granted. The term of this Contract is from May 2, 2012 through April 30, 2016. The services to be performed under this Contract will commence upon receipt of authorization to proceed. All services shall be completed during this term.

If the Consultant has been delayed and as a result will be unable, in the opinion of the Program, to complete performance fully and satisfactorily within this Contract period, the Consultant may be granted an extension of time, upon submission of evidence of the causes of delay satisfactory to the Program.

### 4. Payment.

A. Reimbursement of Expenses. The Program agrees to pay the Consultant an amount based on the approved budget depicted in Exhibit B and hourly rate and reimbursable

expenses price schedules depicted in Exhibit C, attached to this Contract and incorporated by reference as part of this Contract, for the services described in Exhibit A, attached to this Contract and incorporated by reference as part of this Contract. Total payment under this Contract shall not exceed four hundred seventy four thousand and four hundred forty nine dollars (\$474,449.00).

B. Project Budget. The Project budget for each task included in Exhibit A is as follows:

<u>Task</u>	Estimated Cost
Task 100 (Project Initiation and Management)	\$ 7,651
Task 200 (Field Monitoring)	\$355,515
Task 300 (Data Analysis)	\$ 83,595
Task 400 (Reporting)	\$ 27,688
Total Project Cost	\$474,449

The amounts for each task are estimates only, but are not to be exceeded unless authorized in writing by the Program. The Contract total amount is controlling. Payment shall be made directly to the Consultant. The Consultant shall maintain hourly records of time worked by its personnel to support any audits the Program may require. Billing reports shall be submitted no more often than monthly for activities and costs accrued since the last billing report. A brief project progress report summarizing project activities in the billing period must be submitted with each billing.

C. Billing Procedures. The Consultant shall send billing reports for services performed for the various tasks outlined in Exhibit A to the ED Office (address included below). The Program's Executive Director, upon receiving the billing report, will approve the bill and submit the bill for payment. The submittal for payment will then be reviewed by the Signatory Parties of the Program who will advise the Foundation of approval. The Foundation will make payment of these funds directly to the Consultant within 30 days of notice of approval by the Signatory Parties. Payments of bills are due within 60 days after the billing date of the Consultant.

Billing Point of Contact (Program):

Dr. Jerry F. Kenny, Executive Director Platte River Recovery Implementation Program Headwaters Corporation

4111 4th Avenue, Suite 6

Keamey, Nebraska 68845

Phone:

(308) 237-5728

Fax:

(308) 237-4651

Email:

kennyj@headwaterscorp.com

- D. Money Withheld. When the Program has reasonable grounds for believing that the Consultant will be unable to perform this Contract fully and satisfactorily within the time fixed for performance, then the Program may withhold payment of such portion of any amount otherwise due and payable to the Consultant reasonably deemed appropriate to protect the Program against such loss. These amounts may be withheld until the cause for the withholding is cured to the Program's satisfaction or this Contract is terminated pursuant to Section 8U. Any amount so withheld may be retained by the Program for such period as it may deem advisable to protect the Program against any loss. This provision is intended solely for the benefit of the Program and no person shall have any right against the Program by reason of the Program's failure or refusal to withhold monies. No interest shall be payable by the Program on any amounts withheld under this provision. This provision is not intended to limit or in any way prejudice any other right of the Program.
- E. Withholding of Payment. If a work element has not been received by the Program by the dates established in Exhibit A, the Program may withhold all payments beginning with the month following that date until such deficiency has been corrected.
- F. Final Completion and Payment. The final payment shall be made upon acceptance of the final report and receipt of the final billing.

### 5. Responsibilities of Consultant.

- A. Scope of Services. The Consultant shall perform the specific services required under this Contract in a satisfactory and proper manner as outlined in Exhibit A. If there is any conflict between this Contract and the provisions of the specific requirements of Exhibit A, the specific requirements shall prevail.
- B. Personnel. All of the services required hereunder will be performed by the Consultant or under its supervision, and all personnel engaged in the work shall be fully qualified and shall be authorized, licensed, or permitted under state law to perform such services, if state law requires such authorization, license, or permit.

### C. Subcontracts.

- (i) Approval Required for Subcontracts. Any subcontractors and outside associates or consultants required by the Consultant in connection with the services, work performed or rendered under this Contract will be limited to such individuals or firms as were specifically identified in the proposal and agreed to during negotiations or are specifically authorized by the Program during the performance of this Contract. The Consultant shall submit a list of the proposed subcontractors, associates or consultants; the scope and extent of each subcontract; and the dollar amount of each subcontract prior to Contract execution to the Program for approval. During the performance of the Contract, substitutions in or additions to such subcontracts, associates, or consultants will be subject to the prior approval of the Program. The Program approval of subcontractors will not relieve the Consultant from any responsibilities outlined in this Contract. The Consultant shall be responsible for the actions of the subcontractors, associates, and subconsultants.
- (ii) Billings for Subcontractors. Billings for subcontractor, associates or subconsultants services will not include any mark up. The subcontract costs will be billed to the Program at the actual costs as billed to the Consultant. Subcontract costs will be documented by attaching subcontractor billings to the Consultant's billing submittals.
- (iii) Copies of Subcontracts. The Consultant shall provide to the Program copies of each subcontractor contract immediately following execution with the subcontractor. All subcontracts between the Consultant and a subcontractor shall refer to and conform to the terms of this Contract. However, nothing in this Contract shall be construed as making the Program a party of any subcontract entered between the Consultant and a subcontractor.
- D. Requests from the Program. The Consultant shall be responsible and responsive to the Program and the ED Office in their requests and requirements related to the scope of this Contract.
- E. Presentation of Data. The Consultant shall select and analyze all data in a systematic and meaningful manner so as to contribute directly in meeting the objectives of the Project, and shall present this information clearly and concisely, in a professional manner.
- F. Draft of Final Report. The Consultant shall present the Program a draft of the final report covering all work elements of the Project including maps, charts, conclusions and recommendations prior to the publication of any final report and no later than the date specified in Exhibit A. Draft Reports will be provided to the Program in Microsoft Word format for distribution and review. The Program will respond with written comments to the Consultant as soon as possible. The Consultant will address the comments of the Program in the final report. Final Reports will be provided to the Program in Microsoft Word and PDF format.

- G. Project Completion Report. A final project completion report in the form described in Exhibit A shall be submitted to the Program by the date specified in Exhibit A.
- H. Reports, Maps, Plans, Models and Documents. One (1) copy of maps, plans, worksheets, logs, field notes and other reference or source documents prepared for or gathered under this Contract, and one (1) copy of each unpublished report prepared under this Contract shall be submitted to the Program. If the Consultant writes or uses a computer program or spreadsheet as a part of this project, the Consultant shall submit to the Program for approval all proposed program names and data formats prior to beginning work on that task. All data shall be submitted to Program in written and digital forms with the final report. Digital media shall be labeled by the Consultant to provide sufficient detail to access the information on the media. All user manuals shall be submitted by the Consultant to Program providing complete documentation of computer programs developed under this Contract. The user manual shall also specify the source code language and the type of computer equipment necessary to operate the program(s). Any programs or computer software generated as a part of this Contract shall be the sole property of the Program.
- I. Inspection and Acceptance. All deliverables furnished by the Consultant shall be subject to rigorous review by the Program's ED Office prior to acceptance.

### 6. Responsibilities of the Program.

- A. Designated Representative. The Executive Director of the Program shall act as the Program's administrative representative with respect to the Consultant's service to be performed under this Contract and shall have complete authority to transmit instructions, receive information, and interpret and define the Program's policies and decisions with respect to services covered by this Contract.
- B. Data to be Furnished to the Consultant. All information, data, reports, and maps as are available to the Program and necessary for the carrying out of the Scope of Services set forth herein shall be furnished to the Consultant without charge and the ED Office shall cooperate with the Consultant in the carrying out of the project.
- C. Review Reports. The BD Office shall examine all studies, reports, sketches, opinions of the construction costs, and other documents presented by the Consultant to the Program and shall promptly render in writing the Program's decisions pertaining thereto within the time periods specified in Exhibit A.
- D. Provide Criteria. The ED Office shall provide all criteria and full information regarding its requirements for the project.

### 7. Special Provisions.

- A. No Finder's Fees. No finder's fee, employment agency fee, or other such fee related to the procurement of this Contract shall be paid by either party.
- B. Publication. It is understood that the results of this work may be available to the Consultant for publication and use in connection with related work. Use of this work for publication and related work by the Consultant must be conducted with prior authorization from the Program's Technical Point of Contact.
- C. Publicity. Any publicity or media contact associated with the Consultant's services and the result of those services provided under this Contract shall be the sole responsibility of the Program. Media requests of the Consultant should be directed to the Director of Outreach and Operations in the ED Office.
- D. Monitor Activities. The Program shall have the right to monitor all Contract related activities of the Consultant and all subcontractors. This shall include, but not be limited to, the right to make site inspections at any time, to bring experts and consultants on site to examine or evaluate completed work or work in progress, and to observe all Consultant personnel in every phase of performance of Contract related work.
- D. Kickbacks. The Consultant certifies and warrants that no gratuities, kickbacks or contingency fees were paid in connection with this Contract, nor were any fees, commissions, gifts, or other considerations made contingent upon the award of this Contract. If the Consultant breaches or violates this warranty, the Program may, at its discretion, terminate this Contract without liability to the Program, or deduct from the Contract price or consideration, or otherwise recover, the full amount of any commission, percentage, brokerage, or contingency fee.
- E. Office Space, Equipment, and Supplies. The Consultant will supply its own office space, equipment, and supplies.

### 8. General Provisions.

- A. Amendments. Any changes, modifications, revisions or amendments to this Contract which are mutually agreed upon by the parties to this Contract shall be incorporated by written instrument, executed and signed by all parties to this Contract.
- B. Applicable Law/Venue. The construction, interpretation and enforcement of this Contract shall be governed by the laws of the State of Nebraska. The Courts of the State of Nebraska shall have jurisdiction over this Contract and the parties.

- C. Assignment/Contract Not Used as Collateral. Neither party shall assign or otherwise transfer any of the rights or delegate any of the duties set forth in this Contract without the prior written consent of the other party. The Consultant shall not use this Contract, or any portion thereof, for collateral for any financial obligation, without the prior written permission of the Program.
- D. Audit/Access to Records. The Program and any of its representatives shall have access to any books, documents, papers, and records of the Consultant which are pertinent to this Contract. The Consultant shall, immediately upon receiving written instruction from the Program, provide to any independent auditor, accountant, or accounting firm, all books, documents, papers and records of the Consultant which are pertinent to this Contract. The Consultant shall cooperate fully with any such independent auditor, accountant, or accounting firm, during the entire course of any audit authorized by the Program.
- E. Availability of Funds. Each payment obligation of the Program is conditioned upon the availability of funds and continuation of the Platte River Recovery Implementation Program. If funds are not allocated and available for the continuance of the services performed by the Consultant, the contract may be terminated by the Program at the end of the period for which the funds are available. The Program shall notify the Consultant at the earliest possible time of the services which will or may be affected by a shortage of funds. No penalty shall accrue to the Program in the event this provision is exercised, and the Program shall not be obligated or liable for any future payments due or for any damages as a result of termination under this section. This provision shall not be construed to permit the Program to terminate this Contract to acquire similar services from another party.
- F. Award of Related Contracts. The Program may undertake or award supplemental or successor contracts for work related to this Contract. The Consultant shall cooperate fully with other contractors and the Program in all such cases.
- G. Certificate of Good Standing. Consultant shall provide Certificate of Good Standing verifying compliance with the unemployment insurance and workers' compensation programs prior to performing work under this Contract.
- H. Compliance with Law. The Consultant shall keep informed of and comply with all applicable federal, state and local laws and regulations in the performance of this Contract.
- I. Confidentiality of Information. All documents, data compilations, reports, computer programs, photographs, and any other work provided to or produced by the Consultant in the performance of this Contract shall be kept confidential by the Consultant unless written permission is granted by the Program for its release.

### J. Conflicts of Interest

- (i) Consultant shall not engage in providing consultation or representation of clients, agencies or firms which may constitute a conflict of interest which results in a disadvantage to the Program or a disclosure which would adversely affect the interests of the Program. Consultant shall notify the Program of any potential or actual conflicts of interest arising during the course of the Consultant's performance under this Contract. This Contract may be terminated in the event a conflict of interest arises. Termination of the Contract will be subject to a mutual settlement of accounts. In the event the contract is terminated under this provision, the Consultant shall take steps to insure that the file, evidence, evaluation and data are provided to the Program or its designee. This does not prohibit or affect the Consultant's ability to engage in consultations, evaluations or representation under agreement with other agencies, firms, facilities, or attorneys so long as no conflict exists.
- (ii) A conflict of interest warranting termination of the Contract includes, but is not necessarily limited to, representing a client in a adversarial proceeding against the Platte River Recovery Implementation Program, its signatories, boards, commissions or initiating suits in equity including injunctions, declaratory judgments, writs of prohibition or quo warranto.
- K. Entirety of Contract. This Contract, consisting of <u>Twelve (12)</u> pages, Exhibit A, consisting of <u>Seven (7)</u> pages, Exhibit B, consisting of <u>Two\_(2)</u> pages, Exhibit C, consisting of <u>One (1)</u> page, and Exhibit D, consisting of <u>One (1)</u> page, represents the entire and integrated Contract between the parties and supersedes all prior negotiations, representations, and agreements, whether written or oral.
- L. Force Majeure. Neither party shall be liable for failure to perform under this Contract if such failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Such causes may include, but are not limited to, acts of God or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather. This provision shall become effective only if the party failing to perform immediately notifies the other party of the extent and nature of the problem, limits delay in performance to that required by the event, and takes all reasonable steps to minimize delays. This provision shall not be effective unless the failure to perform is beyond the control and without the fault or negligence of the nonperforming party.
- M. Indemnification. The Consultant shall indemnify and hold harmless the Foundation, the Program, the ED Office, and their officers, agents, employees, successors and assignees from any and all claims, lawsuits, losses and liability arising out of Consultant's failure to perform any of Consultant's duties and obligations hereunder or in connection with the negligent performance of Consultant's duties or obligations, including but not limited to any claims, lawsuits, losses or liability arising out of Consultant's malpractice.
  - N. Independent Contractor. The Consultant shall function as an

independent contractor for the purposes of this Contract, and shall not be considered an employee of the Program, Foundation or ED Office for any purpose. The Consultant shall assume sole responsibility for any debts or liabilities that may be incurred by the Consultant in fulfilling the terms of this Contract, and shall be solely responsible for the payment of all federal, state and local taxes which may accrue because of this Contract. Nothing in this Contract shall be interpreted as authorizing the Consultant or its agents and/or employees to act as an agent or representative for or on behalf of the Foundation or the Program, or to incur any obligation of any kind on the behalf of the Foundation or the Program. The Consultant agrees that no health/hospitalization benefits, workers' compensation and/or similar benefits available to Foundation or Program employees will inure to the benefit of the Consultant or the Consultant's agents and/or employees as a result of this Contract.

- O. Notices. All notices arising out of, or from, the provisions of this contract shall be in writing and given to the parties at the address provided under this Contract, either by regular mail, facsimile, e-mail, or delivery in person.
- P. Notice and Approval of Proposed Sale or Transfer of the Consultant. The Consultant shall provide the Program with the earliest possible advance notice of any proposed sale or transfer or any proposed merger or consolidation of the assets of the Consultant. Such notice shall be provided in accordance with the notice provision of this Contract.
- Q. Ownership of Documents/Work Product/Materials. All documents, reports, records, field notes, data, samples, specimens, and materials of any kind resulting from performance of this Contract are at all times the property of the Program.
- R. Patent or Copyright Protection. The Consultant recognizes that certain proprietary matters or techniques may be subject to patent, trademark, copyright, license or other similar restrictions, and warrants that no work performed by the Consultant or its subcontractors will violate any such restriction.
- S. Proof of Insurance. The Consultant shall not commence work under this Contract until the Consultant has obtained the following insurance coverages and provided the corresponding certificates of insurance:
- (i) Commercial General Liability Insurance. Consultant shall provide coverage during the entire term of the Contract against claims arising out of bodily injury, death, damage to or destruction of the property of others, including loss of use thereof, and including products and completed operations in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per claimant and One Million Dollars (\$1,000,000.00) per occurrence.
- (ii) Business Automobile Liability Insurance. Consultant shall maintain, during the entire term of the Contract, automobile liability insurance in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per occurrence. Coverage will include bodily injury and property damage covering all vehicles, including hired vehicles, owned and

### non-owned vehicles

- (iii) Workers' Compensation or Employers' Liability Insurance. The Consultant shall provide proof of workers' compensation coverage Consultant's insurance shall include "Stop Gap" coverage in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per employee for each accident and disease.
- (iv) Professional Liability or Errors and Omissions Liability Insurance. The Consultant shall provide proof of professional liability insurance or errors and omissions liability insurance to protect the Foundation, Program and ED Office from any and all claims arising from the Consultant's alleged or real professional errors, omissions or mistakes in the performance of professional duties in an amount not less than One Million Dollars (\$1,000,000.00) per claim.
- T. Taxes. The Consultant shall pay all taxes and other such amounts required by federal, state and local law, including but not limited to federal and social security taxes, workers' compensation, unemployment insurance and sales taxes.
- U. Termination of Contract. This Contract may be terminated, without cause, by the Program upon fifteen (15) days written notice. This Contract may be terminated immediately for cause if the Consultant fails to perform in accordance with the terms of this Contract.
- V. Third Party Beneficiary Rights. The parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Contract shall not be construed so as to create such status. The rights, duties and obligations contained in this Contract shall operate only between the parties to this Contract, and shall inure solely to the benefit of the parties to this Contract. The provisions of this Contract are intended only to assist the parties in determining and performing their obligations under this Contract.
- W. Time is of the Essence. Time is of the essence in all provisions of the Contract.
- X. Titles Not Controlling. Titles of paragraphs are for reference only, and shall not be used to construe the language in this Contract.
- Y. Waiver. The waiver of any breach of any term or condition in this Contract shall not be deemed a waiver of any prior or subsequent breach.

### 9. Contacts.

Administrative Point of Contact (Foundation):

Diane M. Wilson

Chief Financial and Administrative Officer

Nebraska Community Foundation

PO Box 83107

Lincoln, Nebraska 68501-3107

Phone: (402) 323-7330 Fax: (402) 323-7349

Email: dwilson@nebcommfound.org

Technical Point of Contact (Program):

Steve Smith, P.E.

Platte River Recovery Implementation Prog.

Headwaters Corporation 2727 Bryant St., Suite 210

Denver, CO 80211 Phone: (720) 524-6115 Fax: (720) 524-6347

Email: smiths@headwaterscorp.com

Administrative Point of Contact (Consultant):

Bonnie Vail Tetra Tech, Inc.

3801 Automation Way, Suite 100

Fort Collins, CO 80525 Phone: (970) 223-9600 Fax: (970) 223-7171

Email: Bonnie.Vail@tetratech.com

Admin. Point of Contact (Program):

Dr. Jerry F. Kenny, Executive Director Platte River Recovery Implementation Prog.

Headwaters Corporation 4111 4<sup>th</sup> Avenue, Suite 6 Kearney, Nebraska 68845 Phone: (308) 237-5728 Fax: (308) 237-4651

Email: kennyi@headwaterscorp.com

Media Point of Contact (Program):

Dr. Bridget Barron, Director of Outreach Platte River Recovery Implementation Prog.

Headwaters Corporation 4111 4<sup>th</sup> Avenue, Suite 6 Kearney, Nebraska 68845

Phone: (308) 237-5728 Fax: (308) 237-4651

Email: barronb@headwaterscorp.com

Technical Point of Contact (Consultant):

Robert Mussetter, PhD, P.E.

Tetra Tech, Inc.

3801 Automation Way, Suite 100

Fort Collins, CO 80525 Phone: (970) 223-9600 Fax: (970) 223-7171

Email: Bob.Mussetter@tetratech.com

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10. <u>Signatures</u>. By signing this Contract, the parties certify that they have read and understood it, that they agree to be bound by the terms of the Contract, that they have the authority to sign it.

NEBRASKA COMMUNITY FOUNDATION	
D.M.	5/04/2012
Diane M. Wilson	Date
Chief Financial and Administrative Officer	
TETRA TECH, INC.	
Robert Mussetter, PhD, P.E.	May 1,2012
account transcourts a time to a section	Date

### EXHIBIT "A" SCOPE OF SERVICES

### A. PROJECT DESCRIPTION

- 1. Location: approximately 98 miles of the Platte River from River Mile 254,5 (near Lexington) to River Mile 156.5 (near Chapman)
- 2. Purpose: System-level geomorphic and vegetation monitoring and data analysis for the Platte River.
- 3. History: The Platte River Recovery Implementation Program (Program) was initiated on January 1, 2007 between Nebraska, Wyoming, Colorado, and the Department of the Interior to address endangered species issues in the central and lower Platte River basin. The Program's management objectives are to 1) improve survival of whooping cranes during migration, 2) improve least tern and piping plover production, and 3) avoid adverse impacts on pallid sturgeon in the Lower Platte River. The data and analyses to be completed for this geomorphic and vegetation monitoring and data analysis project will be used to answer Program questions and hypotheses regarding alternative Program management actions to meet the Program's management objectives.

### B. PROJECT REQUIREMENTS

1. Monthly Progress Reports and Billing Statements

The Consultant shall submit a brief monthly progress report outlining the study status, progress, and results to date, regardless of whether or not a billing statement is submitted, on or before the last working day of the month. The progress report will also show the percentage of the job completed by task and the percentage of budget spent. The progress report will also include a billing projection for the upcoming month for the purpose of Program reimbursement request planning.

Each billing statement must include a task-by-task report justifying the cost items contained in the billing statement. The monthly progress report may be used as the justification for the billing statement as long as all cost items covered in the billing statement are addressed in the progress report.

- 2. Computer Models, Statement of Assumptions, Project Work File
  - a. If the Consultant writes or uses a computer program or spreadsheet as a part of this project, the Consultant shall submit to the Program for approval all

Consultant Contract for Service

Platte River Geomorphology and Vegetation Monitoring and Data Analysis

Page 13 of 15

proposed program names and data formats prior to beginning work on that task. All data shall be submitted to the Program in written and digital forms with the final report. Digital media shall be labeled by the Consultant to provide sufficient detail to access the information on the media. User manuals shall be submitted by the Consultant to the Program providing complete documentation of computer programs developed under this project. The user manuals shall also contain the source code language and the type of computer equipment necessary to operate the program(s). The computer programs and spreadsheets (written and digital forms) are due on the same date as the final report, which contains the information generated by the programs.

- b. To facilitate the Program's accurate evaluation of the Consultant's work product, computations, conclusions and recommendations, the Consultant shall:
  - \* Include in the final report a section describing the assumptions and methodology used by the Consultant in generating the data and conclusions contained in that chapter.
  - \* Maintain a project work file containing the materials used in project analysis. This file will be available for review by the Program and should be organized in such a way as to allow replication of the steps and procedures used by the Consultant to reach the conclusions described in the study.
  - \* Prepare a project notebook containing a description of the assumptions and methodologies used in the project analysis. The notebook shall be organized in such a way as to allow replication of the steps, calculations, and procedures used by the Consultant to reach conclusions, described in the draft final report. The project notebook shall be submitted with the draft final report.

### 3. Final Report

The Consultant shall use the Contract Scope of Services as the outline for draft and final reports so that Consultant compliance with Contract provisions can be verified. If the final report contains information of an engineering nature, the cover of the final report, all plates, and the executive summary must be stamped and signed by a Professional Engineer licensed in the State of Nebraska or other state if appropriate to location of project site. If the final report contains information of a geologic nature, the cover of the final report, all plates, and the executive summary must be stamped and signed by a Professional Geologist licensed in the State of Nebraska. If the final report contains information of both an engineering and geologic nature, the cover of the final report, all plates, and the executive summary must be stamped and signed by both a Professional

Engineer and a Professional Geologist licensed in the State of Nebraska. At a minimum, the reproducible original to be submitted as part of the deliverables required herein must utilize an original seal(s) and original signature(s).

### 4. Final Report - Digital Format

In addition to the paper submittal described in Section C.4 above, the Consultant shall also provide the final documents and related materials in a digital format. This digital report shall, to the extent feasible, be assembled into one file rather than separate files for text, tables, graphics, etc. This digital report shall be contained on a CD(s) or DVD(s), and shall be in both Word and Adobe Acrobat format. Any plates, figures, etc. not suitable for Word shall be in AutoCAD, ArcGIS, Adobe Acrobat, or compatible format. Other formats may be used if approved in advance by the ED Office. The final documents will also be provided fully assembled into one file, in a complete "internet ready" digital format to facilitate their distribution via the Office website.

### 5. Project Access

The ED Office shall be responsible for obtaining access as required for project tasks.

### 6. Stand-By Time

The Program will not reimburse the Consultant for stand-by time charges for the Consultant's supervisory personnel.

### C. SCOPE OF SERVICES

See Exhibit A "Final Scope of Services"

1			EXHIBIT A
2 3 4 5	Channel	Geomo	Final Scope of Services  1 (May 2012 through December 2012)  rphology and In-channel Vegetation Monitoring and Data Analysis, Platte River, Nebraska
6 7 8 9 10	(Exhibit B), I Project Timel Platte River C Contract. Th	Hourly Rai ine (Exhib Channel Go e scope o	all be completed by Tetra Tech, Inc. in accordance with the Budget te and Reimbursable Expenses Price Schedule 2012 (Exhibit C) and oit D) during the first year (May 2012 through December 2012) of the ecomorphology and In-channel Vegetation Monitoring and Data Analysis f work, budget and schedule for each succeeding year of the contract in consultation with the Program during the prior year activities.
12	Scope of	Work	
13	Task 100 - F	Project M	anagement
14 15 16 17 18 19	Objective:	the obje- Channel Analysis under thi	scoping of tasks to efficiently complete the work necessary to achieve ctives of Platte River Recovery Implementation Program (PRRIP) Geomorphology and In-channel Vegetation Monitoring and Data Project. Detailed project scoping and budgeting shall be completed s task. Provide Program stakeholders information on project progress. It project progress through monthly invoices and progress reports.
21 22 23	Activities:	Task 101	- Develop Final Scope of Services and Fee
24 25 26 27 28 29	Deliverables:	<ul> <li>Cond project</li> <li>Advis project</li> </ul>	et - Project Management and Meetings: uct telephone and/or in-person meetings as necessary to coordinate at activities and to keep the Executive Director's Office (EDO), Technical ory Committee (TAC) and Governance Committee (GC) informed of tot progress.
30 31	Deliverables.	• Draft	and final scope of work, schedule, and budget. ng minutes from all Project Management meetings.
32 33		٥	Draft minutes in Microsoft Word format provided to ED office for review/comment.
34		0	Final minutes in PDF format.
35 36 37 38		•	Monthly invoices to the ED office, including a summary of work completed in the current month, anticipated work for the following month, and percent complete for scope of work and budget by task.
39 40 41 42 43	Information/S	<ul><li>Data</li><li>Timel</li></ul>	be Provided by EDO Office Staff: from ongoing Program data collection efforts. y review and comments on draft scope of work, meeting minutes and documents.



### Meetings/Travel:

- Meetings to be held by telephone conference.
- · Other meetings as described below.

### Task Series 200 Field Monitoring Tasks

### Objective:

Conduct annual geomorphic and in-channel vegetation data collection and monitoring in accordance with the Channel Geomorphology and In-Channel Vegetation Monitoring Protocol (PRRIP, 2010) (hereinafter referred to as the *Monitoring* Protocol) to document trends in channel geomorphology and provide system-wide status in areal cover and elevation range of in-channel seeding and invasive vegetation.

### 

Monitoring Area: The annual monitoring and data collection shall be conducted at 25 previously identified Anchor Points (APs) In the PRRIP habitat area, which consists of channels within an area 3.5 miles either side of the centerline of the Platte River from the junction of U.S. Highway 283 and Interstate 80 near Lexington, Nebraska, to Chapman, Nebraska (approximately 95 miles).

### Timing:

The monitoring shall occur during an annual low flow (ideally between 250 and 500 cfs) that typically occurs between July 1 and August 31 to maximize the amount of data available to track changes in channel topography and vegetation. Although monitoring will ideally be completed during low flows, monitoring shall be completed annually even in years when flows remain high.

### Activitles:

### Task 201 - Field Preparation

 Prepare field plans and assemble and set up field equipment and data collection sheets and devices.

### Task 202 - Bathymetric and Topographic Survey of Transects

 Bathymetric and topographic surveys shall be conducted at three transects at each of the 25 APs following procedures in Sections III.B.1, and III.B.2, of the Monitoring Protocol.

### Task 203 - In-Channel Vegetation Surveys

 In-channel vegetation surveys shall be conducted at each of the 25 specified APs in accordance with Section III.C. of the Monitoring Protocol.

### Task 204 - Bed Material Sampling

 Bed-material sampling shall be conducted at each of the 25 specified APs in accordance with Section III.D. of the Monitoring Protocol.

### Task 205 - Sediment Transport Measurements

 Bed-load and depth-integrated suspended sediment sampling shall be conducted up to six times at bridge crossings near Lexington (SH-L24A/Road), Overton (SH-L24B/Road 444), Kearney (SH-44/S. 2nd Avenue), Shelton (SH-L10D/Shelton Road), and Grand Island (US-34/Schimmer Drive) in accordance with Section III.H.1. of the Monitoring Protocol.

94 95 96 97		<ul> <li>Task 206 – Field Data Reduction</li> <li>Compile and catalog field data and field photos, organize spreadsheets and prepare database of raw data.</li> </ul>
97 98 99	Deliverables:	Field data and photographs (See Task 400 - Reporting).
100	Meetings/Tra	vel: As necessary to complete field surveys.
101 102	Task Series	300 – Data Analysis
103 104 105 106 107 108 109	Objective:	Review and recommend revisions to the draft Data Analysis Plan that has been developed by the ED Office and the previous contractor, as appropriate, and implement the final plan to provide an analysis of the channel geomorphology and in-channel vegetation data. The analysis shall be performed on both the previously collected 2009, 2010 and 2011 data and the data to be collected in 2012 under this contract.
111 112 113 114 115	Activities:	<ul> <li>Task 301 – Review and revise draft Data Analysis Plan</li> <li>Review the draft plan and provide recommendations to the ED Office on appropriate revisions, focusing on analytical methods that will directly answer key Program questions and test relevant Program hypotheses.</li> </ul>
116 117 118 119 120		<ul> <li>Task 302 Presentation of Data Analysis Plan</li> <li>Participate in TAC meeting to present proposed data analysis plan and receive TAC comments. Finalize draft data analysis plan based on TAC input.</li> </ul>
121 122 123 124 125		<ul> <li>Task 303 – Implement Data Analysis Plan</li> <li>Perform the analyses described in the revised plan. During Year 1 activities, the data analysis will include the previously collected 2009, 2010 and 2011 data. Multivariate analysis will not be performed during Year 1.</li> </ul>
126 127 128 129 130	Deliverables:	<ul> <li>Recommended revisions to the Draft Data Analysis Plan – to be provided in MS Word Track Changes mode.</li> <li>Data analysis section of the annual report (see Task 400 – Reporting).</li> </ul>
131 132	Meetings/Tra	vel: One TAC meeting in Kearney, Nebraska.
133 134	Task Series	400 - Reporting
135 136 137 138 139 140	Objective:	Develop a draft (Microsoft Word) and final (Microsoft Word and PDF) annual report that includes methods, results, data analysis (as specified in the Data Analysis Plan), photographs of field work, and other associated data. Reports shall be delivered electronically to the ED Office for review and comment by the ED Office and the Program's Technical Advisory Committee (TAC). Annual monitoring data shall be uploaded to the Program's online database in a format consistent with other Program data. Prepare for and participate in the Program's

April 23, 2012

### TETRATECH

142	anı	nual AMP Reporting Session held in early March of each year <sup>1</sup> . Preparation
143	sha	all include development of an Executive Summary and presentation of annual
144	act	ivities and findings.
145		
146	Activities:	
147	Tas	sk 401 Annual Report
148	•	Prepare draft annual reports.
149	•	Address EDO and TAC comments, and prepare final annual report.
150		
151	Tas	sk 402 – Annual AMP Reporting Session <sup>1</sup>
152	•	Prepare Executive Summary and presentation.
153	•	Participate in the AMP Reporting Session.
154		. , ,
155	Deliverables:	
156	•	Draft annual report.
157	•	Final annual report addressing EDO and TAC comments on the draft report.
158		• • • • • • • • • • • • • • • • • • •
159 160	Meetings/Travel:	None.

Participation in the annual AMP Reporting Session, typically held in March, is anticipated. Cost to prepare and participate is not included in the Year 1 budget.

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April 23, 2012

### EXHIBIT B

Year 1 (May 2012 through December 2012)

### Vegetation Monitoring and Data Analysis, Platte River, Nebraska Cost Estimate for Channel Geomorphology and In-channel

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Principal Engineer   Statistical Licensed Sentior   Sentior   Cecomophologist   Biologist   Engineer   Scientist   Engineer   Scientist   Principal Engineer   Scientist   Engineer   Scientist   Principal Engineer   Scientist   Scientist   Principal Engineer   Principal Engineer   Scientist   Principal Engineer   Scientist   Scientist   Principal Engineer   Scientist   Scientist   Principal Engineer   Scientist   Scien	Draftsmav/ Technician	\$58.50		-	-	880	87	230	920	8		32	252			252	16	92		1148	577 673
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	Subtask				Н	1							Н			303					

\*\* Particippion in the annual AMP Reporting Session, typically held in March, is anticipated. Cost of preparation and participation is not included in the Year 1 budget

April 23, 2012



### **EXHIBIT B (CONTINUED)**

Year 1 (May 2012 through December 2012)

### Vegetation Monitoring and Data Analysis, Platte River, Nebraska Other Direct Costs for Channel Geomorphology and In-channel

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April 23, 2012



### EXHIBIT C

Year 1 (May 2012 through December 2012)

### RATE SCHEDULE

Hourly Rate*
\$228.15
\$176.65
\$156.05
\$120.00
\$11 <i>4.</i> 85
\$106.61
\$99.40
\$94.25
\$88.58
\$68.50
\$78.80

### IN HOUSE FOUIPMENT:

HIT HOUSE ENGINALIEF.	Nate
Computer charges	\$1.64 per labor hour
Truck (4 x 4)	\$1,00/mile

Automobile Approved GSA Rates for

Privately Owned Vehicles Boat (16-ft inflatable) \$125,00/day Jet boat (18-ft) \$225.00/day Inflatable kayak \$10.00/day Level & Sonic Sounder \$10.00/day RTK GPS equipment \$1.800/week Echosounder \$625/week ADCP Unit \$1,500/week ADCP with GPS equipment \$3,000/week ADCP with GPS equipment and Echosounder \$3,500/week **Total Station** \$10.00/hour **Current Meter** \$50.00/day Water Quality Meter

### IN HOUSE REPRODUCTION:

8 ½ x 11 paper	\$ 0.10/sheet
Plotter (black & white)	\$5.00/sheet
Plotter (color)	\$7.50/sheet

Plotter (color)

\*Hourly rates for deposition and court time associated with expert witness support will be charged at 1.5 times the indicated rate.

Permit fees, processing fees, bonds, etc. will be the responsibility of the client. All other direct costs including travel, lodging, meals and incidentals for personnel, special photography, postage, delivery services, express mail, out-of-area telephone calls, printing by outside vendor, laboratory analysis, and any other services performed by outside vendor will be billed at cost plus G&A of 13.46%. Subcontract services will be charged to the client with a 10% service fee. Tetra Tech (TT) is not liable for damages caused by delays in performance of the above work, which arise from events beyond our reasonable control. TT is not responsible for damages or losses incurred through the use of studies, plans, recommendations or cost estimates in excess of the fees patd to TT for these services. Monthly progress payments shall be due and payable by the Client within 30 days after submittal of the bill for such work by TT. The progress payment shall include the portion of the fee earned based upon the percentage of work performed, as determined by TT. Payment due but unpaid within 30 days after submission of the bill shall bear interest at the rate of 15% per as determined by TT. Payment due but unpaid within 30 days after submission of the bill shall bear interest at the rate of 11/2% per month until paid. If client should fall to pay within ninety (90) days after the bill is rendered, TT shall have the right, upon seven (7) days written notice to the Client, to stop work on the project until payment of the amount owed, including all interest charges, has been received.

\$30.00/day

Data



## EXHIBIT D Year 1 (May 2012 through December 2012) Project Timeline

Subtask	Description	May		June	ē		July		4	August		Ser	September	ber	ŏ	October	_	Š	November	ber	å	December	ber
ê	Project Initiation and Management											-		L	┝	_		-	-			-	L
101	Finalize Scope and Fee			_	F		-	L	-	_		t	-	L	$\vdash$	-		$\vdash$	╁	ļ.,		╁	-
102	Project Manatement and Meetings																					The second second	
200	Field Wonitoring				-		-		H	L		┢	H			-		_	ļ			_	_
201	Bathymetric and Topographic Surveys		L		-							┢	L		-			╁	-	L		┝	L
202	In-channel Vegetation Surveys				H							-	┝		-	L		-	-	-		$\vdash$	Ł
203	Bed Material Sampling				-							┢	┞	_	-	-		$\vdash$	├-	-		╁	ļ.,
204	Sediment transport measurements	212																	NAME OF STREET				
205	Data Reduction				┝		-	鰞							-			_		-		-	1_
300	Data Analysis						-		H	-			ł		┝	L		<del> </del>	-	-		╁	╀
301	Review and Revise Draft Data Analysis Plan						<u> </u>			ļ		<u> </u>						<del> </del>	-	ļ			<del> </del>
302	Participate in TAC Meeting	_		8	-	L	<del> </del>		┢	-		┢	╁	L	╁		L	-	┝	Ļ		+	1
303	Implement Data Analysis Plan			200 200 200 200 200 200 200 200 200 200	150 E	Carroll of Karling I of Carlo	23,5	246	28	3 3 53	200											-	Ļ
400	Reporting				-				-	_	_	-	L		H	L			┞	L		$\vdash$	Ļ
	401 Annual Report				-				-	L		-	-									於心理論	
2	402 Amual AMP Reporting Session**	_			-		-		H	_		-	-		-	L		Г	-	L.		$\vdash$	L
						ľ										ŀ	ĺ						l

Moeting to be sets of measurements in accordance with Section III,H.1. of the Mondoring Protocol. Specific timing dependent on flow levels.

So Evaluation of 2009, 2010, and 2011 data sets.

So Evaluation of Arafannual report and associated database and photos.



#### PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM

Third Amendment to the Agreement between the Nebraska Community Foundation, Inc. and Tetra Tech, Inc., regarding "Platte River Geomorphology and Vegetation Monitoring and Data Analysis"

 This Third Amendment to the Agreement between the Nebraska Community Foundation, Inc. ("Foundation") of Lincoln, Nebraska, representing all signatories to the Platte River Recovery Implementation Program ("Program"), and Tetra Tech, Inc. ("Consultant"), a private consultant of Fort Collins, Colorado, is made and entered into effective on the date of signing below and the final date of this Amendment will be May 1, 2015.

The purpose of this amendment is to:

- (1) Expand the Scope of Work to include the third year of system-scale geomorphology and vegetation monitoring and data analysis anticipated under the original contract. This Scope of Work, presented in Exhibit A, will commence upon execution of this Amendment and be completed by May 1, 2015.
- (2) Expand the Scope of Work to include updating of the system-scale HEC-RAS hydraulic model to reflect changes in channel morphology since model development in 2009. This Scope of Work, presented in **Exhibit B**, will commence upon execution of this Amendment and be completed by December 31, 2014.
- (3) Increase the contract amount by \$495,000 for the purpose of compensating the Consultant for the third year of system-scale monitoring presented in Exhibit A and by \$67,000 to update the HEC-RAS model as presented in Exhibit B. This will increase the total approved budget for this contract from \$1,006,828 to \$1,568,828. This budget increase shall be effective as of the date of this Amendment and funds will become available immediately. A detailed budget breakdown of the additional effort expended by task and labor category for system-scale monitoring is included in Exhibit C and a budget breakdown for the HEC-RAS model update is included in Exhibit D.

Important Amendment notes:

(1) This is the Third Amendment to the Agreement. Exhibit E includes the Original Agreement, First Amendment and Second Amendment.

All other terms of the original Agreement remain in effect as originally written in the Agreement dated April 23, 2012. The following parties agree to the terms of this Amendment and the original Agreement:



#### PRRIP - ED OFFICE FINAL

01/08/2014

39	For the Consultant:	
40		
41		
42	1 MA	1 . 4(
43	1010	Jan 26, 2014
44	Robert A. Mussetter, PhD, PE	Jan 28, 2014 Date
45	Discipline Lead	
46	Tetra Tech, Inc.	
47		
48	For the Foundation:	
49		
50	٨	
51		
52	_ <b>/</b>	1/30/2014
53	Diane M. Wilson	Date
54	Chief Operating Officer/Chief Financial Officer	
55	Nebraska Community Foundation, Inc.	



56 EXHIBIT A

PRRIP – ED OFFICE FINAL



1 2 3	Channal	Final Scope of Services  Year 3 (January 2014 through December 2014)  Geomorphology and In-channel Vegetation Monitoring and
4	Chaine	Data Analysis, Platte River, Nebraska
5 6 7 8 9	( <b>Exhibit B</b> ), Project Timel	g tasks shall be completed by Tetra Tech, Inc. in accordance with the Budget Hourly Rate and Reimbursable Expenses Price Schedule 2014 ( <b>Exhibit C</b> ) and ine ( <b>Exhibit D</b> ) during the third year (January 2014 through December 2014) of the Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis
10	Scope of	f Work
11 12	Task 100 - F	Project Management
13 14 15 16 17 18	Objective:	Facilitate scoping of tasks to efficiently complete the work necessary to achieve the objectives of Platte River Recovery Implementation Program (PRRIP) Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis Project. Detailed project scoping and budgeting shall be completed under this task. Provide Program stakeholders information on project progress. Document project progress through monthly invoices and progress reports.
19 20	Activities:	Task 101 – Develop Final Scope of Services and Fee
21 22 23 24 25 26 27 28	Deliverables	<ul> <li>Draft and final scope of work, schedule, and budget.</li> </ul>
29		Meeting minutes from all Project Management meetings.
30 31		<ul> <li>Draft minutes in Microsoft Word format provided to ED office for review/comment.</li> </ul>
32		o Final minutes in PDF format.
33 34 35 36		<ul> <li>Monthly invoices to the ED office, including a summary of work completed in the current month, anticipated work for the following month, and percent complete for scope of work and budget by task.</li> </ul>
37 38 39 40 41 42	Information/	<ul> <li>Service to be Provided by EDO Office Staff:</li> <li>Data from ongoing Program data collection efforts.</li> <li>Timely review and comments on draft scope of work, meeting minutes and related documents.</li> </ul>
43 44	Meetings/Tra	<ul><li>Meetings to be held by telephone conference.</li></ul>
		- Mostings to be note by telephone conference.



45 Other meetings as described below. 46 47 Task Series 200 Field Monitoring Tasks 48 49 Objective: Conduct annual geomorphic and in-channel vegetation data collection and 50 monitoring in accordance with the Channel Geomorphology and In-Channel 51 Vegetation Monitoring Protocol (PRRIP, 2010) (hereinafter referred to as the 52 Monitoring Protocol) to document trends in channel geomorphology and provide system-wide status in areal cover and elevation range of in-channel seeding and 53 54 invasive vegetation. 55 Monitoring 56 Area: The annual monitoring and data collection shall be conducted at 25 previously 57 identified Anchor Points (APs) in the PRRIP habitat area, which consists of 58 channels within an area 3.5 miles either side of the centerline of the Platte River 59 from the junction of U.S. Highway 283 and Interstate 80 near Lexington, 60 Nebraska, to Chapman, Nebraska (approximately 95 miles). 61 62 Timing: The monitoring shall occur during an annual low flow (ideally between 250 and 63 500 cfs) that typically occurs between July 1 and August 31 to maximize the amount of data available to track changes in channel topography and vegetation. 64 65 Although monitoring will ideally be completed during low flows, monitoring shall 66 be completed annually even in years when flows remain high. 67 68 **Activities:** Task 201 – Field Preparation 69 Prepare field plans and assemble and set up field equipment and data 70 collection sheets and devices. 71 72 Task 202 - Bathymetric and Topographic Survey of Transects 73 Bathymetric and topographic surveys shall be conducted at five transects at 74 each of the 25 APs following procedures in Sections III.B.1 and III.B.2 of the 75 Monitoring Protocol. 76 77 Task 203 – In-Channel Vegetation Surveys 78 In-channel vegetation surveys shall be conducted at each of the 25 specified 79 APs in accordance with Section III.C of the Monitoring Protocol. 80 81 Task 204 – Bed Material Sampling 82 Bed-material sampling shall be conducted at each of the 25 specified APs in accordance with Section III.D of the Monitoring Protocol. 83 84 85 **Task 205 – Sediment Transport Measurements** 86 Bed-load and depth-integrated suspended sediment sampling shall be 87 conducted up to six times at bridge crossings near Lexington (SH-L24A/Road), Overton (SH-L24B/Road 444), Kearney (SH-44/S. 2nd Avenue), 88 Shelton (SH-L10D/Shelton Road), and Grand Island (US-34/Schimmer Drive) 89 90 in accordance with Section III.H.1 of the Monitoring Protocol. 91 92 Task 206 - Field Data Reduction 93



94 Compile and catalog field data and field photos, organize spreadsheets and 95 prepare database of raw data. 96 97 **Deliverables:** Field data and photographs (See Task 400–Reporting). 98 99 Meetings/Travel: As necessary to complete field surveys. 100 101 Task Series 300 – Data Analysis 102 103 Implement the data analysis plan to provide an analysis of the channel Objective: 104 geomorphology and in-channel vegetation data. The analysis shall incorporate 105 the 2014 data into the previously analyzed data from 2009 through 2013. 106 107 Activities: Task 301 – Review and revise draft Data Analysis Plan 108 Update the Draft Data Analysis Plan based on results and recommendations 109 from the analyses performed on the 2009 through 2013 data. 110 111 **Task 302 – Presentation of Data Analysis Plan** 112 Participate in a TAC meeting to present adjustments to proposed data analysis plan and receive TAC comments. Finalize draft data analysis plan 113 114 based on TAC input. 115 116 Task 303 – Implement Data Analysis Plan 117 Perform the analyses described in the revised plan. The analysis will focus primarily on data collected at the Pure Panel APs (i.e., those surveyed every 118 119 year) between 2009 and 2014. 120 121 **Deliverables:** 122 Recommended revisions to the Draft Data Analysis Plan – to be provided in 123 MS Word Track Changes mode. 124 Data analysis section of the annual report (see Task 400 – Reporting). 125 126 Meetings/Travel: TAC Meeting in Kearney, NE. 127 128 Task Series 400 - Reporting 129 130 Objective: Develop a draft (Microsoft Word) and final (Microsoft Word and PDF) annual 131 report that includes methods, results, data analysis (as specified in the Data 132 Analysis Plan), photographs of field work, and other associated data. Reports 133 shall be delivered electronically to the ED Office for review and comment by the 134 ED Office and the Program's Technical Advisory Committee (TAC). Annual 135 monitoring data shall be uploaded to the Program's online database in a format 136 consistent with other Program data. Prepare for and participate in the Program's annual AMP Reporting Session held in early March of each year. Preparation 137 138 shall include development of an Executive Summary and presentation of annual activities and findings. 139

Activities:

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Page 3 of 8



144	Tas	sk 401 – Annual Report
145	•	Prepare draft annual reports.
146	•	Address EDO and TAC comments, and prepare final annual report.
147		
148	Tas	sk 402 – Annual AMP Reporting Session <sup>1</sup>
149	•	Prepare Executive Summary and presentation.
150	•	Participate in the AMP Reporting Session.
151		·
152	Deliverables:	
153	•	Draft annual report.
154	•	Final annual report addressing EDO and TAC comments on the draft report.
155		
156	Meetings/Travel:	None.



EXHIBIT B

PRRIP – ED OFFICE FINAL

## HEC-RAS 1-D Steady State Model Update Lexington to Chapman Platte River, Nebraska

### **Scope of Work**

#### Objective:

Update the existing one-dimensional, steady-state HEC-RAS model of the Central Platte River from Lexington to Chapman with recently collected data. The available data includes 2012 LiDAR topography, 2012 cross sections from the Geomorphology and Vegetation Monitoring Program and various other monitoring programs being conducted by the Platte River Recovery Implementation Program (PRRIP), and 2012 aerial imagery, and PRRIP vegetation mapping.

#### **Activities:**

#### Task 1: Update Roughness Data

- Review land use/roughness polygons from 2009 model development and make adjustments based on current aerial photographs
- Incorporate current extent of phragmites to account for effects of the mitigation program.

#### Task 2: Re-cut Cross Sections with New Topography

- Use ArcMAP and HEC-GeoRAS to re-cut original cross sections against 2012 LiDAR topography.
- Incorporate available 2012 ground survey data into relevant cross sections. Data for this task will be taken from the following sources:
  - Platte River Geomorphology and Vegetation Monitoring Program
  - o Elm Creek Adaptive Management Experiment
  - Shoemaker Island Adaptive Management Experiment
  - Pilot Sediment Augmentation Monitoring Program
- Apply horizontally-variable roughness values to the cross sections based on the refined vegetation/roughness polygons from Task 1.

#### Task 3: Cross-section Inspection

 Inspect model cross-sections to verify horizontal locations and elevations of banks stations, roughness breaks, ineffective flow areas, blocked obstructions, levees, bridge abutments and weirs.



#### Task 4: Calibration

- LiDAR:
  - Estimate discharge profile at the time of the LiDAR flights,
  - Cut water-surface profile from the LiDAR surface,
  - Run model for the estimated discharge profile and compare resulting water-surface profile with LiDAR profile, and
  - Make adjustments to subaqueous portion of the cross sections approximate the flow area and match LiDAR profile to a reasonable tolerance, considering the uncertainty in the LiDAR profile.
- Ground survey data: Use surveyed edge-of-water points from the various ground surveys listed under Task 2 to adjust model using the following procedure:
  - Estimate local discharge at the time of the survey,
  - o Run the model for the estimated discharges,
  - o Compare estimated and surveyed water-surface elevations, and
  - Adjust model input, as necessary, to match surveyed points to within a reasonable tolerance, considering the uncertainty in the discharge estimates.
- Gage Rating Curves
  - o Run the model over the range of flows up to 8,000 cfs,
  - Compare predicted water-surface elevations with rating curves for the various USGS and NDNR Gages (Overton, Odessa, Kearney, Shelton and Grand Island), and
  - Adjust model input, as necessary to match the gage rating curves to within reasonable tolerance.

#### Task 5: Technical Memorandum

• Develop a technical memorandum describing the methods and procedures that were used to update the model, the calibration results, and special considerations with which potential users of the model should be aware.

#### **Deliverables:**

- HEC-RAS project, flow and model geometry files
- HEC-GeoRAS shapefiles
- Technical memorandum



#### Information/Service to be provided by Program Staff:

- Study area roughness polygons and LiDAR
- Locations of Program activities that would affect model topography and roughness, including mechanical grading and herbicide spraying.

#### **Meetings/Travel:**

- Monthly progress meetings to be held by telephone conference
- One in-person meeting in Kearney to be attended by the Tetra Tech Project Manager and Lead Hydraulic Engineer (2 people) to present and discuss the model and calibration results.

#### **DETAILED COSTS:**

The total amount for the above task shall not exceed \$66,955. **Attachment 1** provides a breakdown of the costs by task.





EXHIBIT C

PRRIP – ED OFFICE FINAL



# Year 3 (January 2014 through December 2014) Cost Estimate for Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis, Platte River, Nebraska

Subtask	Description	Principal Engineer/ Geomorphologist	Senior Biologist	Statistical Ecologist	Licensed Surveyor	Senior Engineer/ Scientist	Engineer/ Scientist	entist	Staff Biologist	Technician	Draftsman/ Technician	Clerical	Labor Cost	Direct Costs	То	otal by Task
		\$242.04	\$187.40	\$165.55	\$127.31	\$121.84	\$113.09	\$105.45	\$99.98	\$93.98	\$72.67	\$83.59				
100	Project Initiation and Management	16	8			4						4	\$ 6,194	\$ 2,32	1 \$	8,515
101	Finalize Scope and Fee	4	2									2	\$ 1,510	\$	\$	1,510
102	Project Management and Meetings	12	6			4						2	\$ 4,683	\$ 2,32	1 \$	7,005
200	Field Monitoring	50	48	4	24	32	728	184	368	488	744	28	\$ 269,508	\$ 101,90	2 \$	371,410
201	Field preparation	2	8	4	8	4	16	24	24	24	8		\$ 13,728	\$	\$	13,728
202	Bathymetric and Topographic Surveys	20			16	8	416				208	5	\$ 70,431	\$ 24,66	3 \$	95,097
203	In-channel Vegetation Surveys		24						224	224	448	5	\$ 80,919	\$ 32,16	1 \$	113,080
204	Bed Material Sampling	4				4	40	40			40	5	\$ 13,522	\$ 30,61	4 \$	44,136
205	Sediment transport measurements	8				8	240			240		5	\$ 53,026	\$ 14,13	2 \$	67,157
206	Data Reduction	16	16			8	16	120	120		40	8	\$ 37,882	\$ 32	9 \$	38,211
300	Data Analysis	76	80	48		8	80	80	88	8	40	8	\$ 72,917	\$ 1,73	В \$	74,655
301	Review and Revise Draft Data Analysis Plan	24	24	8					8	8		8	\$ 13,851	\$	\$	13,851
302	Participate in TAC Meeting	12	16										\$ 5,903	\$ 1,73	8 \$	7,641
303	Implement Data Analysis Plan	40	40	40		8	80	80	80		40		\$ 53,163	\$	\$	53,163
400	Reporting	40	52	32		8	24	24	24	16	20	10	\$ 37,136	\$ 1,33	5 \$	38,472
401	Annual Report	24	40	32		8	24	16	16	16	16	8	\$ 28,913	\$ 43	В \$	29,351
402	Annual AMP Reporting Session**	16	12					8	8		4	2	\$ 8,223	\$ 89	8 \$	9,120
	Total Hours	182	188	84	24	52	832	288	480	512	804	50	•			
	TOTAL COST	\$44,051	\$35,231	\$13,906	\$3,055	\$6,336	\$94,091	\$30,370	\$47,990	\$48,118	\$58,427	\$4,180	\$ 385,755	\$ 107,29	7 \$	493,052

<sup>\*</sup>Includes G&A (14.44%)

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## Year 3 (January 2014 through December 2014) Other Direct Costs for Channel Geomorphology and In-channel Vegetation Monitoring and Data Analysis, Platte River, Nebraska

Item	Unit Cost	Unit Cost Ta		Task 102		Task 202		Task 203		Т	Task 204		1	Гask 205	-	Task	206	1	Task 302		Tas	k 401	Т	ask 402	Total
item	Unit Cost	Qty	(	Cost	Qty	Cost	Qty		Cost	Qty		Cost	Qty	Cost	Qty		Cost	Qty	Cost	Qt	у	Cost	Qty	Cost	I Otal
Airline Tickets	\$400	1	\$	400.00		\$ -	(	5 \$	2,400.00		\$	-		\$ -		\$		1	\$ 400.0	0	\$	-	1	\$ 400.00	\$ 3,200.00
Mileage	\$0.565 /mi.	700	\$	395.50	100	\$ 56.50		\$	-	2100	\$	1,186.50	5100	\$ 2,881.50		\$		800	\$ 452.0	0	\$	-	150	\$ 84.75	\$ 4,972.00
Mileage (4x4)	\$1.00 /mi.	700	\$	700.00	250	\$ 250.00		\$	-		\$	-		\$ -		\$			\$ -		\$	-		\$ -	\$ 950.00
Lodging and per diem	\$129 /day	2	\$	258.00	78	\$ 10,062.00	112	\$	14,448.00	15	\$	1,935.00	48	\$ 6,192.00		\$		3	\$ 387.0	0	\$	-	2	\$ 258.00	\$ 33,282.00
Parking	\$15 /day		\$	-		\$ -	3	\$	45.00		\$	-		\$ -		\$	-	2	\$ 30.0	0	\$	-	2	\$ 30.00	\$ 75.00
Rental Car (including gas)	\$125 /day	2	\$	250.00		\$ -	28	\$	3,500.00		\$	-		\$ -		\$		2	\$ 250.0	0	\$	-	1	\$ 125.00	\$ 4,000.00
RFK-GPS Survey Equipment (base station, 2																									
rovers)	\$2,500 /week		\$	-	3	\$ 7,500.00		\$	-	1	\$	2,500.00		\$ -		\$	-		\$ -		\$	-		\$ -	\$ 10,000.00
RFK-GPS Survey Equipment (1 rover)	\$900 /week		\$	-		\$ -	4	\$	3,600.00		\$	-		\$ -		\$	-		\$ -		\$	-		\$ -	\$ 3,600.00
Echo Sounder	\$625 /week		\$	-	1	\$ 625.00		\$	-		\$	-		\$ -		\$	-		\$ -		\$	-		\$ -	\$ 625.00
Air Boat	\$250 /day		\$	-	10	\$ 2,500.00	15	\$	3,750.00	3	\$	750.00		\$		\$	-		\$ -		\$	-		\$ -	\$ 7,000.00
Inflatable Kayak	\$50 /day		\$	-	4	\$ 200.00		\$	-		\$	-		\$ -		\$	-		\$ -		\$	-		\$ -	\$ 200.00
Lab. Analysis of Bed and Bar Material Sediment																									
Samples	\$75 /sample		\$	-		\$ -		\$	-	270	\$	20,250.00		\$ -		\$	-		\$ -		\$	-		\$ -	\$ 20,250.00
Lab. Analysis of Bedload Samples	\$85 /sample										\$	-	30	\$ 2,550.00		\$									\$ 2,550.00
Lab. Analysis of Suspended Sediment Samples	\$100 /sample		\$	-		\$ -		\$	-		\$	-	5	\$ 500.00		\$	,		\$ -		\$	-		\$ -	\$ 500.00
Expendable Field Supplies	LS					\$ 250.00		\$	250.00		\$	100.00		\$ 200.00					\$ -		\$	-		\$ -	\$ 800.00
Color laser prints	\$0.50 /sheet		\$	-	120	\$ 60.00	120	\$	60.00	20	\$	10.00	20	\$ 10.00	50	\$	25.00		\$ -		50 \$	25.00		\$ -	\$ 190.00
Misc. Communications (Telephone, fax, shipping)	LS		\$	25.00		\$ 50.00		\$	50.00		\$	20.00		\$ 15.00		\$	15.00		\$ -		\$	50.00		\$ -	\$ 225.00
TOTAL DIRECT COSTS			\$ 2	,028.50		\$ 21,553.50		\$	28,103.00		\$	26,751.50		\$ 12,348.50		\$	287.50		\$ 1,519.0	0	\$	382.50		\$ 897.75	\$ 92,974.00

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#### RATE SCHEDULE

Year 3 (January 2014 through December 2014)

PERSONNEL:	Hourly Rate*
Principal Engineer/Geomorphologist	\$242.04
Senior Biologist	\$187.40
Statistical Ecologist	\$165.55
Licensed Surveyor	\$127.31
Senior Engineer/Scientist	\$121.31
Engineer/Scientist	\$113.09
Junior Engineer/Scientist	\$105.45
Staff Biology	\$ 99.98
Staff Ecologist/Technician	\$ 93.98
Draftsman/Technician II	\$ 72.67
Word Processor/Clerical	\$ 83.59
	<u>_</u>

#### IN HOUSE EQUIPMENT: Rate

= = =	
Computer Use	\$1.75 per labor hour
Automobile	Approved GSA Rates for
	Privately Owned Vehicles
Airboat	\$ 250/day
Cataraft (16-ft)	\$ 100/day
Cataraft (14-ft)	\$ 100/day
Jet boat (18-ft)	\$ 225/day
Inflatable kayak	\$ 50/day
Zodiak (9-ft)	\$ 100/day
RTK GPS Equipment (base station, 2 rovers)	\$2,500/week
RTK GPS Equipment (base station, 1 rover )	\$ 900/week
Echosounder	\$ 625/week
ADCP Unit	\$1,500/week
ADCP with GPS Equipment	\$3,000/week
ADCP with GPS Equipment and Echosounder	\$3,500/week
Hypack	\$ 60/day

#### IN HOUSE REPRODUCTION:

$8\frac{1}{2}$ x 11 paper	\$ 0.10/sheet
Plotter (black & white)	\$5.00/sheet
Plotter (color)	\$7.50/sheet

\*Hourly rates for deposition and court time associated with expert witness support will be charged at 1.5 times the indicated rate. Permit fees, processing fees, bonds, etc. will be the responsibility of the client. All other direct costs including travel, lodging, meals and incidentals for personnel, special photography, postage, delivery services, express mail, out-of-area telephone calls, printing by outside vendor, laboratory analysis, and any other services performed by outside vendor will be billed at cost plus G&A of 14.44%. Subcontract services will be charged to the client with a 10% service fee. Tetra Tech (TT) is not liable for damages caused by delays in performance of the above work, which arise from events beyond our reasonable control. TT is not responsible for damages or losses incurred through the use of studies, plans, recommendations or cost estimates in excess of the fees paid to TT for these services. Monthly progress payments shall be due and payable by the Client within 30 days after submittal of the bill for such work by TT. The progress payment shall include the portion of the fee earned based upon the percentage of work performed, as determined by TT. Payment due but unpaid within 30 days after submission of the bill shall bear interest at the rate of 11/2% per month until paid. If client should fail to pay within ninety (90) days after the bill is rendered, TT shall have the right, upon seven (7) days written notice to the Client, to stop work on the project until payment of the amount owed, including all interest charges, has been received.



EXHIBIT D

PRRIP – ED OFFICE FINAL

## **ATTACHMENT 1**

## **Cost Estimate for HEC-RAS 1-D Steady State Model Update**

## Lexington to Chapman, Platte River, Nebraska

20	13 Update to 1-D Model Le	xington to Cha	apman								
Subtask	Description	Principal Engineer/ Geomorphologist	Senior Engineer/ Scientist	Engineer/ Scientist	Junior Engineer/Scientist	Draftsman/ Technician	Clerical	Labor Cost	Direct Costs*		
		\$228.15	\$114.85	\$106.61	\$99.40	\$68.50	\$78.80				
1	Roughness/Phragmites Update	2	8	40			5	\$ 6,033	\$ 31	\$	6,064
2	Survey Data - GeoRAS - Cut XS	2	8	40	40	40	5	\$ 12,749	\$ 60	\$	12,808
3	XS Inspection	2	16	80			5	\$ 11,216	\$ 60	\$	11,276
4	Calibration	4	16	240			5	\$ 28,729	\$ 26	\$	28,755
5	Tech Memo - Kearney Meeting	4	8	40		10	8	\$ 7,411	\$ 641	\$	8,052
	Total Hours	14	56	440	40	50	28				
	TOTAL COST	\$3,194	\$6,431	\$46,906	\$3,976	\$3,425	\$2,206	\$ 66,138	\$ 817	\$	66,955

<sup>\*</sup>Includes G&A (13.46%)

### **Other Direct Costs:**

Item	Unit Cost		Task	Task 1		Ta	ask 2		Ta	sk3		Task	4	Task 5				Total
item	Utili Cost	Qty		Cost			Cost	Qty		Cost		Cost		Qty	Cos	Cost		Total
Lodging and per diem	\$120 /day		\$	-		\$	-		\$	-		\$	-	2	\$	240.00	\$	240.00
Rental Car (including gas)	\$125 /day		\$	-		\$	-		\$	-		\$	-	2	\$	250.00	\$	250.00
Xerox (8 1/2 x 11 & 11x17)	\$0.10 /page	25	\$	2.50	25	\$	2.50	25	\$	2.50	25	\$	2.50	100	\$	10.00	\$	20.00
Color laser prints	\$0.50 /sheet		\$	-		\$	-		\$	-		\$	-	100	\$	50.00	\$	50.00
Misc. Communications (Telephone, fax, shipping)	LS		\$	25.00		\$	50.00		\$	50.00		\$	20.00		\$	15.00	\$	160.00
TOTAL DIRECT COSTS			\$	27.50		\$	52.50		\$	52.50		\$	22.50		\$	565.00	\$	720.00
TOTAL DIRECT COSTS (with 13.46% G&A)			\$	31.20		\$	59.57		\$	59.57		\$	25.53		\$	641.05	\$	816.91