

44 45 46	This RFP describes a multi-year program of work encompassing acquisition of aerial imagery and LiDAR in 2024 through 2026 according to the following schedule:
40 47	- Summer 2024: Full Program area aerial photography
47 48	<ul> <li>Fall 2024: Full Frogram area aerial photography</li> <li>Fall 2024: Bathymetric LiDAR and concurrent aerial photography</li> </ul>
49	<ul> <li>Summer 2025: Full Program area aerial photography</li> </ul>
49 50	<ul> <li>Fall 2025: Bathymetric LiDAR and concurrent aerial photography</li> </ul>
50 51	- Summer 2026: Full Program area aerial photography
52	- Fall 2026: Bathymetric LiDAR and concurrent aerial photography
53	Tan 2020. Dathymetric Endrick and concurrent aerial photography
54	Summer imagery acquisition window is typically from mid-June to mid-July. Fall
55	Acquisitions window is typically from mid-October to mid-November.
56	requisitions while of is typically from the October to find recember.
57	III. SCOPE OF WORK
58	The Program is requesting proposals from potential bidders to provide bathymetric LiDAR and
59	digital aerial imagery of the project area as described below. Minimum product specifications
60	follow:
61	IOHOW.
62	1) Schedule
63	NOTE: From prior naming convention, Sub-Project 2 is the SUMMER acquisition. Sub-
64	Project 1 is the FALL acquisition. The 2024 project schedule will begin with Sub-Project 2.
65	risteer is the fried acquisition. The 202 i project schedule will begin with Sub Froject 2.
66	a) Sub-Project 1 - Fall concurrent bathymetric LiDAR and aerial photography.
67	i) LiDAR and imagery will be acquired each year between October 15 and November
68	15 under low Platte River flow conditions beginning in 2024. Bidder must be flexible
69	and work with Program staff during that time to schedule flights such that river flows
70	in the project area are as low as possible (ideally under 1,000 cfs).
71	ii) Imagery will be acquired on cloud-free days with the sun at a sufficient angle to
72	reduce the effect of shadows from trees and structures and efforts should be made to
73	reduce sun glare on water surfaces.
74	iii) Imagery will be acquired in combination with LiDAR such that the imagery reflects
75	the condition of the river during the LiDAR acquisition. River conditions can change
76	daily, and imagery must be flown at least the same day, if not at the exact same time
77	as the LiDAR.
78	iv) The Central Platte River is subject to artificial hydrocycling from hydropower
79	operations, and close coordination and care in timing is required to acquire products
80	acceptable to the Program.
81	v) The acquisition area must be free of snow and ice, and extraneous environmental
82	conditions such as rain, fog or smoke should be avoided.
83	vi) <u>Final delivery of Sub-Project 1 aerial imagery deliverables will be within 60 days</u>
84	of final acquisition flight each year.
85	vii) Final delivery of all other Sub-Project 1 deliverables will be within 120 days of
86	final acquisition flight each year.
87	



88		b)	Sub-Project 2 – Summer aerial photography.
89			i) Imagery will be acquired each year between June 15 and July 15 beginning in 2024.
90			Bidder must be flexible and work with Program staff during that time to schedule
91			flights such that river flows in the project area are as close to 1,200 cfs as possible.
92			ii) The Central Platte River is subject to artificial hydrocycling from hydropower
93			operations, and close coordination and care in timing is required to acquire products
94			acceptable to the Program.
95			iii) Imagery will be acquired on cloud-free days with the sun at a sufficient angle to
96			reduce the effect of shadows from trees and structures and efforts should be made to
97			reduce sun glare on water surfaces.
98			iv) Final delivery of Sub-Project 2 deliverables will be within 60 days of final
99			acquisition flight each year.
100			
101		c)	Flight Cancellations
102			i) The Program, at its sole discretion, may choose to cancel any individual acquisition
103			or part of an acquisition (aerial imagery, LiDAR) over the course of the project. This
104			could occur if river conditions are such that the products received would not be of a
105			quality acceptable to the Program. If an acquisition is partially or fully cancelled, the
106			contract price would be adjusted and the cost of those acquisitions and products
107			removed.
108			
109	2)	Pro	bject Area
110	,		The area of interest for Sub-Project 1 consists of an area generally between the high
111		,	banks of the Platte River beginning near the junction of U.S. Highway 283 and Interstate
112			80 near Lexington, Nebraska, and extending eastward to near Chapman, Nebraska
113			(approximately 128 square miles). A polygon shapefile of the acquisition area is
114			included on the Program website (LINK) in the same location as this solicitation.
115		b)	The area of interest for Sub-Project 2 consists of an area 3.5 miles either side of the
116			centerline of the Platte River beginning at the junction of U.S. Highway 283 and
117			Interstate 80 near Lexington, Nebraska, and extending eastward to Chapman, Nebraska
118			(approximately 750 square miles). A polygon shapefile of the acquisition area is
119			included on the Program website (LINK) in the same location as this solicitation.
120			
121	3)	Su	b-Project 1 Technical Specifications
122		CII	R aerial photography and bathymetric LiDAR over approximately 128 sq. mi.
123			
124		a)	LiDAR Technical Specifications
125			i) Topo-bathymetric LiDAR (green LiDAR) is required.
126			ii) The LiDAR data will be collected at a mean resolution of 2.3 ft (0.7 m) GSD or
127			better.
128			iii) The contractor shall ensure that the area of interest is fully and sufficiently covered
129			with no data voids due to gaps between flightlines or system malfunction.

130	iv)	Data voids in the bare-earth not caused by classification of geographic features shall
131		not exceed three times the point spacing. Data voids of this size are sufficient
132		reason to reject the dataset.
133	v)	LiDAR data should be classified using the following ASPRS Standard LiDAR
134		Point Classes:
135		<ul> <li>Class 1 – Unclassified</li> </ul>
136		• Class 2 – Ground
137		<ul> <li>Class 7 – Low point and noise</li> </ul>
138		• Class 9 – Water
139		• Class 12 – Overlap
140		• Class 40 – Bathymetric Bottom
141		• Class 41 – Water Surface
142		• Class 45 – Water Column
143		(1) Class 1 will be used for feature points that are not in Classes 2, 7, 9, 12, 40, 41,
144		or 45. These typically represent returns from man-made structures, vegetation
145		etc.
146		(2) Class 2 will be used for feature points that represent the bare-earth.
147		(3) Class 7 will be used for artifacts that do not represent the ground, manmade
148		structures or vegetation. Typically these are extraneous points that are either
149		below, or well above the surface not representing any true feature.
150		(4) Class 9 will be used to identify NIR points found within water bodies, including
151		streams and rivers.
152		(5) Class 12 will be used for LiDAR points in the overlap portion of flight lines that
153		have been removed due to redundancy (if necessary).
154		(6) Class 40 will be used for green sensor returns that characterize the bathymetric
155		topography.
156		(7) Class 41 will be used for green sensor returns determined to be the water
157		surface.
158		(8) Class 45 will be used for green sensor returns within the water column that are
159		not the water surface or the bathymetric bottom.
160	•	(9) No points shall be deleted from the LAS files.
161	vi)	Bare-earth classification shall adhere to the following specifications using both
162		automated and manual filtering classification routines:
163		<ul> <li>90% of artifacts classified</li> <li>95% of artifacts classified</li> </ul>
164		• 95% of outliers classified
165		• 95% of vegetation classified
166	•••	• 98% of building classified
167	vii)	Special attention must be applied to the classification process due to the
168		geographic nature of the project area which consists of extremely flat terrain
169		mixed with important hydrographic characteristics. Channel geometry of
170		streams and drainage features must be maintained as well as the ability to
171		identify sand bar features within the Platte River. Dense vegetation data voids

172			must also be minimized by the automatic removal process and "over smoothing"
173			due to aggressive classification must be avoided.
174		V111)	Vertical accuracy for LiDAR will meet or exceed 0.3 ft (9.2 cm) RMSE (Accuracy <sub>z</sub>
175			= 0.6 ft (0.18 m) at the 95% confidence level).
176		ix)	Horizontal accuracy for LiDAR will meet or exceed 1.97 ft (0.6 m) RMSE
177			(Accuracy <sub>r</sub> = $3.41$ ft ( $1.04$ m) at the 95% confidence level).
178		x)	The vertical datum for LiDAR is NAVD88 (Geoid03), and the horizontal datum is
179			Nebraska State Plane (1983). Elevation and projection in feet.
180			
181			al Photography Technical Specifications
182			The imagery will be six-inch (0.5 ft) pixel resolution.
183		ii) 7	The imagery will be color-infrared.
184		iii) 7	The imagery will be ortho-rectified and seamless, and will be tone-balanced with
185		а	idjacent images across the project area.
186			magery will be acquired on cloud-free days with the sun at a sufficient angle to
187		r	educe the effect of shadows from trees and structures and efforts should be made to
188		r	educe sun glare on water surfaces.
189		v) 7	The imagery will be projected in Nebraska State Plane Feet (1983 datum).
190		vi) 7	The imagery must be acquired concurrently with the LiDAR so as to reflect river
191		С	conditions during acquisition. The imagery must be collected at least the same day, if
192		r	not at the exact same time, as the LiDAR. Imagery acquired at flows significantly
193		Ċ	lifferent than that of the LiDAR acquisition may require reflight.
100		-	interent that of the Librar acquisition may require renight.
	4)		
194	4)	Sub-Pro	oject 2 Technical Specifications
	4)	Sub-Pro	
194	4)	<b>Sub-Pro</b> Four-ba	oject 2 Technical Specifications
194 195	4)	Sub-Pro Four-ban a) <u>Aeri</u>	<b>Dject 2 Technical Specifications</b> nd aerial photography over approximately 750 sq. mi.
194 195 196	4)	Sub-Pro Four-bar a) <u>Aeri</u> i) 7	oject 2 Technical Specifications nd aerial photography over approximately 750 sq. mi. al Photography Technical Specifications
194 195 196 197	4)	Sub-Pro Four-ban a) <u>Aeri</u> i) 7 ii) 7	Dject 2 Technical Specifications nd aerial photography over approximately 750 sq. mi. <u>al Photography Technical Specifications</u> The imagery will be six-inch (0.5 ft) pixel resolution.
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194 195 196 197 198 199	4)	Sub-Pro Four-ban a) <u>Aeri</u> i) 1 ii) 1 iii) 1 a	Dject 2 Technical Specifications and aerial photography over approximately 750 sq. mi. <u>al Photography Technical Specifications</u> The imagery will be six-inch (0.5 ft) pixel resolution. The imagery will be 4-band (R, G, B, NIR). The imagery will be ortho-rectified and seamless, and will be tone-balanced with
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194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 207 208 209 210 211		Sub-Pro Four-ban a) <u>Aeri</u> i) T ii) T iii) T iii) T iii) T vi) T v) T vi) T Project All proje Section T a) <u>LiD</u> $_{i}$	<ul> <li>Dject 2 Technical Specifications</li> <li>and aerial photography over approximately 750 sq. mi.</li> <li>al Photography Technical Specifications</li> <li>The imagery will be six-inch (0.5 ft) pixel resolution.</li> <li>The imagery will be 4-band (R, G, B, NIR).</li> <li>The imagery will be ortho-rectified and seamless, and will be tone-balanced with adjacent images across the project area.</li> <li>magery will be acquired on cloud-free days with the sun at a sufficient angle to educe the effect of shadows from trees and structures and efforts should be made to educe sun glare on water surfaces.</li> <li>The imagery will be projected in Nebraska State Plane Feet (1983 datum).</li> <li>Deliverables will include both RGB and CIR products described in Section III.5.</li> <li>Deliverables should be processed and delivered according to the schedule in III.1.</li> <li>AR (terrestrial and bathymetric)</li> </ul>

03/14/2024

215		feet (Geoid 03). Classified LAS file will include all LiDAR points, including first
216		and last returns.
217		ii) Daily reports during acquisition that display all flight lines, as well as completed
218		areas. Once acquisition is complete, a project summary report that shows time and
219		date of all flightline acquisitions. Time of day, not just the day, is important to match
220		river flow condition to acquisition.
221		iii) Tiling scheme shapefile for identifying LAS and DEM file locations. Tile size and
222		file size is flexible and will be discussed upon award of project.
223		
224	b)	Digital Elevation Model
225		i) Hydro-enforced and bathymetric bare-earth digital elevation model raster tiles (3-foot
226		cell size), projected in Nebraska State Plane coordinate system – elevation and
227		projection in feet.
228		(1) See pages 23-25 of the USGS LiDAR Base Specifications 2023 rev. A for details
229		on hydro-flattening: https://www.usgs.gov/media/files/lidar-base-specification-
230		<u>2023-rev-a</u> . In the proposal, provide details of the software/methodology to be
231		used for this alternative.
232		(2) Breaklines used in the generation of the hydro-enforced and topobathymetric
233		DEM are also a required deliverable.
234		ii) Highest-hit (first return) digital elevation model raster (3-foot cell size). Used to
235		approximate vegetation height.
236		iii) Full project area mosaic of digital elevation model tiles (3-foot cell size).
237		iv) NOTE: Two versions of the DEM will be required. One hydro-enforced DEM for the
238		given flow conditions during the flight, and one DEM that incorporates bathymetry
239		below the water surfaces.
240		
241	c)	Imagery
242		i) Color-infrared (Sub-Project 1) and 4-band (Sub-Project 2) digital orthophotography
243		with a six-inch (0.5 ft) pixel resolution (or better), covering the entire project area
244		seamlessly and without data gaps.
245		ii) The imagery should be geo-referenced and provided in tiled GeoTIFF (.tif) format.
246		iii) Compressed imagery mosaic (.sid). Typically entire reach compiled into one mosaic,
247		but may be split due to file size. Sub-Project 2 will require both a RGB mosaic and a
248		CIR mosaic. Sub-Project 1 will be a CIR mosaic only.
249		
250		
251	d)	LiDAR and Imagery
252		i) Shapefiles of LiDAR and aerial photography flight lines or photo centers that identify
253		the date and time of the flight line or photo center.
254		ii) FGDC-compliant metadata to include, but not limited to: flight dates and times, flight
255		altitude, camera system information, LiDAR system information, aircraft information,
256		imagery resolution, LiDAR point density, horizontal accuracy, post-processing
257		software and steps, and horizontal and vertical control references.



258		iii) All LiDAR data, photography, and supplemental products will be delivered on USB
259		external hard drives or flash drives and will become the property of the Program. All
260		media and data collected under the contract shall be the sole property of and can be
261		freely distributed by the Program. No restrictions shall be placed on the data by the
262		contractor.
263	e)	Ground Survey
264		i) Proposals should discuss the ground control and survey approach for ensuring
265		accuracy of elevation and imagery deliverables. Accuracy and reporting are important
266		to the Program and emphasis will be placed on approach and discussion of ground
267		control. This includes verification of bathymetric surfaces.
268		ii) The Program owns several thousand acres of land across the entire acquisition area
269		and can provide access to multiple river survey areas for bathymetric LiDAR ground
270		survey verification.
271		iii) This is a continuing multi-year project since 2016. Year-to-year compatibility of the
272		deliverables is extremely important and post-processing and ground survey should
273		ensure that datasets are comparable year to year (i.e. immobile objects such as paved
274		roads should not report differing elevations across years).
275	6) <b>D</b> a	rmits and Clearances
275	0) 10	
277	a)	It is the contractor's responsibility to file all required flight plans and obtain all necessary
278	a)	approvals to fly over and acquire aerial imagery and LiDAR in the Project area.
278		approvals to my over and acquire actual imagery and EDPAR in the Project area.
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280	IV.	CONTRACT TERMS
281	The se	lected contractor will be retained by:
282		
283	Nebras	ska Community Foundation
284	PO Bo	x 83107
285	Lincol	n, NE 68501
286		
287	Terms	and conditions will be negotiated as mutually agreeable. It is understood that the
288	Govern	nance Committee reserves the right to accept any proposal that, in its judgment, is the best
289	propos	al, and to waive any irregularities in any proposal.
290		
291	Propos	sal costs incurred in response to this RFP will be the responsibility of the bidder. Neither
292	the Ne	braska Community Foundation nor the Governance Committee will be liable for any costs
293	incurr	ed by the bidder in the completion and submission of the proposal.
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# 301 V. SUBMISSION REQUIREMENTS

- All interested parties having experience providing the services listed in this RFP are requested to submit a proposal.
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# **305 Instructions for Submitting Proposals**

- 306 One electronic copy of your proposal must be submitted in PDF format to Justin Brei at
- 307 <u>breij@headwaterscorp.com</u> no later than 5:00 p.m. Central Time on Wednesday, April 17, 2024.
- Maximum allowable PDF size is 8MB. A proposal is late if received any time after 5:00 p.m.
- 309 Central Time and will not be eligible for consideration.
- 310
- **Questions regarding the information contained in this RFP must be SUBMITTED IN**
- 312 WRITING by <u>5:00 p.m. Central Time Thursday, April 11, 2024</u>. No questions on content
- 313 can be submitted after this time. Questions and answers will be shared with all interested
- 314 parties. These can be emailed to Justin Brei at <u>breij@headwaterscorp.com</u> or mailed to the
- address at the top of this RFP. Questions can be submitted any time before the above time
- and answers may be posted intermittently to the Program website during the proposal
- period. Final questions and answers will be made available on the Program website in the
- **location of this RFP (LINK) by EOB <u>Friday, April 12, 2024.</u>**
- 319

# 320 Proposal Content

- 321 Proposals must include:
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- 323 1) Technical information including:
  - a. Aircraft/LiDAR/camera system details
- b. Ground control/verification methodology/plan including both terrestrial and bathymetric collection and calibration to past products.
- 327 c. Post-processing software and summary of methodology, especially bathymetric
   328 processing.
  - d. Design accuracy information
- Relevant bathymetric LiDAR and aerial photography experience from the last two years,
  especially projects related to natural resources and river geomorphology. Example projects
  should demonstrate experience collecting and processing bathymetric LiDAR in river
  systems. Please provide a minimum of two project references including the name, location,
  and brief summary of the projects; name, address, and phone number of the contracting
  officer for the client; and when the project was completed.
- 337
  338 3) Statement of annual availability within the acquisition window of October 15 to November
  339 15 for Sub-Project 1 and June 15 to July 15 for Sub-Project 2.
- 340
- 4) Estimated timeline for activities including mobilization, acquisition and processing. Also,
  specify the estimated flight time necessary to complete each acquisition over entire project
  area (for planning purposes related to river operations in order to achieve lowest possible
  flow).

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5) Detailed firm fixed price proposal. At minimum, project budget should itemize Sub-Project 1 and Sub-Project 2 on an annual basis inclusive of any applicable taxes. Budget will be
considered, but contract will not be awarded solely on a lowest cost basis. Governance
Committee approval is needed before the contractor is authorized to begin implementation.
A sample budget table is included for reference. A similar table should be included in the
proposal.

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354		Summer 2024 SP2	Fall 2024 SP1	Summer 2025 SP2	Fall 2025 SP1	Summer 2026 SP2	Fall 2026 SP1
355 356	LiDAR Cost by Acquisition	NA		NA		NA	
357 358 359	Imagery Cost by Acquisition						

Total Project
Cost

- 6) Conflict of interest statement addressing whether or not any potential conflict of interest
   exists between this project and other past or on-going projects, including any projects
   currently being conducted for the Program.
- 370 7) Suspension and Debarment. Contractor must not be suspended or debarred from receiving
  371 federal funds. Proposal must include statement of eligibility to receive federal funds and must
  372 provide contractor Dun & Bradstreet (D-U-N-S) number or other means of identification in
  373 the U.S System for Award Management site (www.sam.gov).
- B) Description of insurance shall be provided with the proposal. Proof of insurance will be required before a contract is issued. Minimum insurance requirements will include
   \$1,000,000 general liability per occurrence.
- 379 VI. CONTRACTOR SELECTION
- The GC will appoint a selection committee to review responses to this RFP. Proposals will be reviewed and the award made to the lowest cost proposal that conforms to the specifications of this solicitation and is considered to provide the most value to the Program.
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- 384 VII. PROGRAM PERSPECTIVE
- 385 The GC of the Program has the sole discretion and reserves the right to reject any and all
- proposals received in response to this RFP and to cancel this solicitation if it is deemed in the
- 387 best interest of the Program to do so. Issuance of this RFP in no way constitutes a commitment



by the Program to award a contract, or to pay contractor's costs incurred either in the preparation
of a response to his RFP or during negotiations, if any, of a contract for services. The Program
also reserves the right to make amendments to this RFP by giving written notice to contractors,
and to request clarification, supplements, and additions to the information provided by a
contractor.

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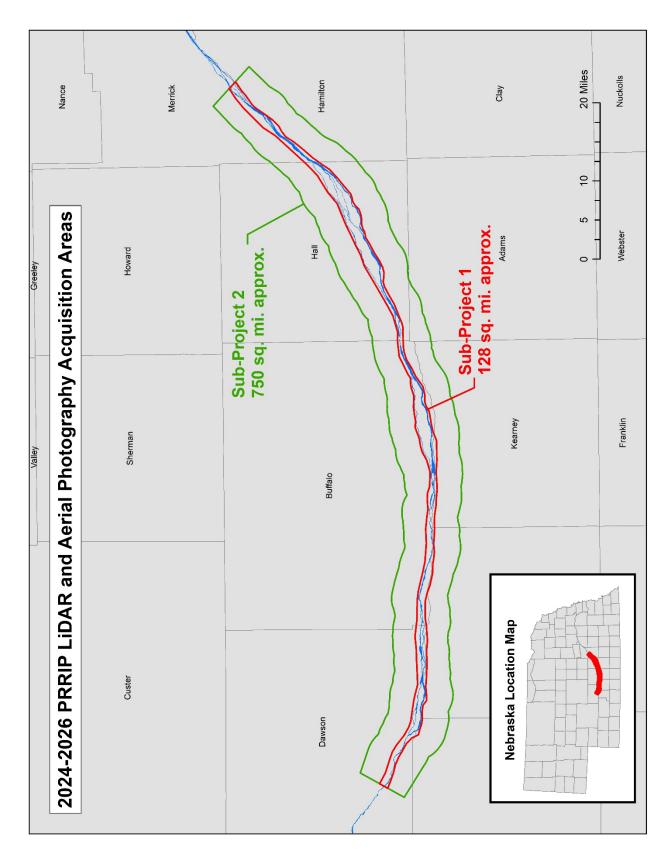
By submitting a proposal in response to his solicitation, contractors understand and agree that

- any selection of a contractor or any decision to reject any or all responses or to establish no
- contracts shall be at the sole discretion of the Program. To the extent authorized by law, thecontractor shall indemnify, save, and hold harmless the Nebraska Community Foundation, the
- contractor shall indemnify, save, and hold harmless the Nebraska Community Foundation, the
   states of Colorado, Wyoming, and Nebraska, the Department of the Interior, members of the GC,
- and the ED Office, their employees, employers, and agents, against any and all claims, damages,
- 400 liability, and court awards including costs, expenses, and attorney fees incurred as a result of any
- 401 act or omission by the contractor or its employees, agents, subcontractors, or assignees pursuant
- 402 to the terms of this project. Additionally, by submitting a proposal, contractors agree that they
- 403 waive any claim for the recovery of any costs or expenses incurred in preparing and submitting a
- 404 proposal.
- 405

# 406 VIII. AVAILABLE INFORMATION

- A shapefile of the acquisition area for Sub-Projects 1 and 2 are available on the Program website
   (www.platteriverprogram.org/contractors) at the same location as this RFP solicitation. A map of
   the acquisition area is found on the last page of this solicitation.
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