



## PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM

### Questions and Answers:

#### **P17-003: Cottonwood Ranch (CWR) Broad-Scale Recharge (BSR) Engineering Design and Construction Administration Services**

- 1) The RFP refers to the conveyance from the CNPPID Phelps County Canal, mentioned in one location as a “pipeline from the CNPPID’s Phelps Canal” (page 2/11) and as a “A Series of conveyance structures, berms and/or small dams”- Page 1/11. Can you clarify if the diversion from the canal, conveyance from the canal diversion to the Cottonwood Ranch Complex recharge cells, and associated structures is part of the proposed project and RFP? Or is the RFP limited to the general boundary of H RD to J RD, North of 747 RD for 1 Mile?

*Spatially, the scope of services of the RFP is limited to the general boundary between H Rd, J Rd, 747 Rd and a minimum maintenance road that lies one mile north of 747 Rd. The pipeline from the Phelps County Canal will be designed and constructed by the Central Nebraska Public Power and Irrigation District (CNPPID) and is NOT part of this RFP. The CNPPID pipeline will dead end in the general location of the “Delivery Pipeline Outlet” shown on the design concepts in Attachment A of the RFP. It will be the job of the Consultant to design a delivery system (including potential energy dissipation infrastructure) within the project boundary described, assuming 60-95 cfs is delivered at the pipeline outlet.*

- 2) What is the estimated design and constructed (total) cost for the proposed project described in the RFP?

*The Program has budgeted slightly more than \$3,400,000 in the 2017 budget under line item WP=4(b)iii “Water Action Plan (broad-scale recharge)” for general activities associated with broad-scale recharge projects in 2017. This includes but is not limited to the design and construction of the project at Cottonwood Ranch. The total cost of the broad-scale recharge project at Cottonwood Ranch was estimated to be slightly greater than \$4,000,000 (spanned over 2 years) as outlined in the Program’s FY2017 Work Plan. This estimate was developed for budgeting purposes only and construction cost will be a major consideration during the design process.*

*The 2017 budget and work plan are available in the Program Library at the following link and are titled “December 6 2016 FINAL Master PRRIP FY2017 Budget” and “December 6 2016 FINAL Master PRRIP FY2017 Work Plan”:*

<https://www.platteriverprogram.org/PubsAndData/Pages/ProgramLibrary.aspx>

- 3) The preliminary design work shown in the RFP was designed by Headwaters? Have any other firms previously designed or prepared documents for the recharge or irrigation conveyance project?



45 *Yes, the preliminary design was developed by Headwaters Corporation, which acts as the*  
46 *Executive Director’s Office of the Platte River Recovery Implementation Program (as outline in*  
47 *the Overview section of the RFP). Headwaters has been the only firm to perform preliminary*  
48 *design and planning work on the broad-scale recharge project at the Cottonwood Ranch*  
49 *Complex. HDR has been involved in preliminary permitting discussions with the United States*  
50 *Army Corps of Engineers (USACE), but HDR (or any other firm) has not been involved in the*  
51 *design of the project or any other part of project planning process beyond permitting*  
52 *considerations.*

53

54 4) What survey and imagery information is available for the project? Lidar, topo, boundary  
55 line? Are easement establishment and boundary line surveys part of the scope of the project?  
56

57 *Site-specific survey and imagery information will be transferred to the Consultant upon award of*  
58 *the project. The primary elevation data used in the design will likely be the LiDAR data that was*  
59 *collected for the Program in November of 2015 (which has complete coverage of the project*  
60 *site). The 2015 LiDAR data is available in both raw form (points) and in the form of a DEM*  
61 *(ground resolution of 2ft). Imagery collected at the same time as the LiDAR in 2015 will also be*  
62 *made available. Imagery from other years (collected annually in June/July) will be made*  
63 *available, as will data from other ground surveys and surveys of existing infrastructure.*  
64

65 *Easement establishment and boundary line surveys are not part of this RFP. If needed, the*  
66 *Program can hire a NE licensed land surveyor to perform a legal survey.*  
67

68 5) What geotechnical investigations have been performed to date on the project site? Are any  
69 geotechnical reports available?  
70

71 *To date, the main geotechnical investigation at the project site involved drilling 10 exploratory*  
72 *boreholes throughout the property and performing various lab tests on samples from the*  
73 *boreholes. The two main tests performed on layers near the surface were grain size analyses and*  
74 *relative density tests. Other tests (permeability, Atterberg limits, etc.) were performed on a low-*  
75 *permeability layer about 40 feet below the surface. It is anticipated that a small amount of*  
76 *geotechnical analysis might be needed, mostly related to the integrity of the constructed berms.*  
77 *All geotechnical data will be transferred to the Consultant upon award of the project.*