

WSF 2019 Annual Report # 4125

PROJECT: Secondary Bedrock Aquifer Reconnaissance Sampling in Eastern Nebraska –WSF Application #4125 (awarded April 2016)

DATE: MARCH 28, 2019
(FIRST ANNUAL REPORT DUE ON OR BEFORE APRIL 1, 2019)

See Application 4125 Section D #2 For Project Scope Summary and Timeline

PROJECT PROGRESS APRIL 2018 TO APRIL 2019:

The US Geological Survey (USGS) in cooperation with the Eastern Nebraska Water Resources Assessment (ENWRA) Natural Resources Districts (NRD) completed the eight remaining age-dating analyses and worked on vetting of the sample results. USGS began compilation of historical data available for the region, began to analyze current and historical data together, continued interpretations and continued report writing. Initial preliminary analysis of the age dating results has been conducted for the samples as of March 2019 with USGS final interpretation still in progress. The initial results of the water quality sampling are currently in the USGS NWIS database for 40 eastern Nebraska samples (attached map and list).

ANTICIPATED ACTIVITIES FROM NOW UNTIL NEXT ANNUAL REPORT DUE APRIL 1, 2020

A draft report is anticipated by December 2019. Additionally, the draft report results will be presented to stakeholders prior to the next annual WSF status report. USGS will complete the final vetting of the sample results, finish compiling historical data available for the region, analyze current and historical data together, continue interpretations, and finish report writing. A final USGS publication planned for Spring 2020.

ANTICIPATED CASH FLOW FOR REMAINDER OF THE PROJECT:

Reimbursement Claims #1 through #4 totaling **\$96,300 have been received** from WSF (60% of USGS invoices). No more reimbursement claims are anticipated:

LIKELIHOOD THAT BENEFITS PROJECTED IN APPLICATION 4125 WILL BE REALIZED:

Based on preliminary results provided by USGS at recent ENWRA meetings, the project is on target for achieving the benefits as described in the application.

SiteNumber	SiteName	SiteCategory	SiteAgency	SiteLongitude	SiteLatitude	SiteNWISURL
401759096003301	4N 13E 19BC(N-5)	GW	USGS	-96.00916670	40.29972220	Access Data
401819095493701	4N 14E 15DD (N-6)	GW	USGS	-95.82702780	40.30516667	Access Data
402313095512401	5N 14E 21 BC (N-3)	GW	USGS	-95.85655280	40.38694167	Access Data
404950096205501	10N 10E 18CC (LPS-4)	GW	USGS	-96.34872220	40.83052778	Access Data
405139096194801	10N 10E 5CB (LPS-1)	GW	USGS	-96.33000000	40.86083330	Access Data
405213096205001	10N 10E 6BB (LPS-2)	GW	USGS	-96.34722220	40.87027778	Access Data
405921096535101	12N 5E 19DC (LPS-3)	GW	USGS	-96.89761110	40.98927778	Access Data
410002096551101	12N 4E 24 AB (LPS-5)	GW	USGS	-96.91983330	41.00041667	Access Data
410335096150101	13N 10E 36BB (D-SWSarpy1)	GW	USGS	-96.25016670	41.05966667	Access Data
410335096150102	13N 10E 36BB (D-SWSarpy2)	GW	USGS	-96.25038890	41.05950000	Access Data
410613096071101	13N 11E 12DD (D-Sp1)	GW	USGS	-96.11966670	41.10369444	Access Data
410613096071102	13N 11E 12DD (D-Sp2)	GW	USGS	-96.11969440	41.10366667	Access Data
411005096311701	14N 8E 22CB (LPN-1)	GW	USGS	-96.52144720	41.16803889	Access Data
411005096311702	14N 8E 22CB (LPN-2)	GW	USGS	-96.52144440	41.16813889	Access Data
411845096211201	16N 9E36NESE (Valley shallow, P-Va1)	GW	USGS	-96.35333330	41.31257220	Access Data
411845096211202	16N 9E 36NESE (Valley medium, D-Va2)	GW	USGS	-96.35333330	41.31250000	Access Data
411845096211203	16N 9E 36NESE (Valley City Park deep, D-Va3)	GW	USGS	-96.35333330	41.31250000	Access Data
412758096222801	17N 9E 2DC (D-A1)	GW	USGS	-96.37438890	41.46600000	Access Data
412758096222802	17N 9E 2DC 2 (D-A2)	GW	USGS	-96.37441670	41.46594444	Access Data
412758096222803	17N 9E 2DC 3 (U-A3)	GW	USGS	-96.37433330	41.46591667	Access Data
413618096322901	19N 8E 20AD (LE-1)	GW	USGS	-96.54131670	41.60498330	Access Data
413639096274901	19N 8E 24AA (LE-2)	GW	USGS	-96.46366670	41.61088889	Access Data
413828096465801	19N 6E 6CD (LE-4)	GW	USGS	-96.78275830	41.64106667	Access Data
413912096462201	19N 6E 6AA (LE-3)	GW	USGS	-96.77277780	41.65333330	Access Data
415958096152201	23N 10E 2DA (D-D1)	GW	USGS	-96.25602780	41.99944444	Access Data
415958096152202	23N 10E 2CA (D-D2)	GW	USGS	-96.25605560	41.99944444	Access Data
421406096294901	26N 8E 11CC (D-Th1)	GW	USGS	-96.49683330	42.23494444	Access Data
421406096294902	26N 8E 11CC (D-Th2)	GW	USGS	-96.49691670	42.23508330	Access Data
421406096294903	26N 8E 11CC (D-Th3)	GW	USGS	-96.49691670	42.23511110	Access Data
421730096390001	27N 7E 30AA (PM D-1)	GW	USGS	-96.65000000	42.29154720	Access Data
422344097120801	28N 2E 16DC(LE-5)	GW	USGS	-97.20222220	42.39555556	Access Data
422409097124601	28N 2E 16BC (LE-6)	GW	USGS	-97.21277780	42.40250000	Access Data
422616096343801	29N 7E 35DC (D-J1)	GW	USGS	-96.57713890	42.43769444	Access Data
422616096343802	29N 7E 35DC (D-J2)	GW	USGS	-96.57572220	42.43766667	Access Data
422616096343803	29N 7E 35DC (D-J3)	GW	USGS	-96.57577780	42.43761110	Access Data
423317097160901	30N 1E 25BB (LC-4M)	GW	USGS	-97.26911110	42.55464720	Access Data
423317097161001	30N 1E 25BB (LC-4S)	GW	USGS	-97.26951670	42.55466667	Access Data
424611097185201	32N 1E 9BA (LC-6S domestic)	GW	USGS	-97.31455000	42.76971667	Access Data
424713097170101	33N 1E 35CC (LC-6M)	GW	USGS	-97.28368330	42.78700000	Access Data
424713097170102	33N 1E 35CC (LC-6D)	GW	USGS	-97.28371940	42.78698889	Access Data