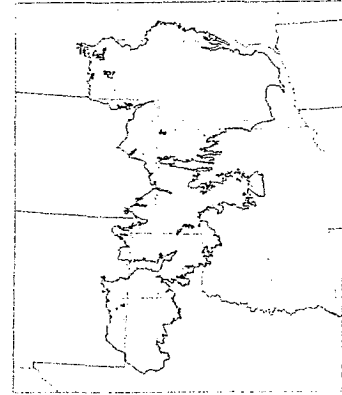


High Plains Hydrology LLC
7956 S. Shawnee St.
Aurora, CO 80016-7206
(303) 693-0299



March 1, 2007

Steve Gaul
Supervisor, Planning and Assistance Division
Nebraska Department of Natural Resources
P.O. Box 94676
Lincoln, NE 68509-4676

RECEIVED

MAR 05 2007

DEPARTMENT OF
NATURAL RESOURCES

Dear Steve:

Enclosed are my monthly report for February, an invoice for the time and expenses for work with the Department of Natural Resource, and a spreadsheet supporting the time. If you have any questions, please give me a call. Thank you.

Sincerely,

Richard R. Luckey
Senior Hydrologist

Groundwater Modeling Support for the Nebraska Department of Natural Resources

Status Report, February 28, 2007

Objectives: 1. Provide modeling support as requested; and

2. Compare COHYST and RRCA models in area of overlap, with emphasis on the groundwater mound area.

Status:

Dick returned to looking at the differences between the Cooperative Hydrology Study (COHYST) models and the Republican River Compact Administration (RRCA) model in February. He got the latest central COHYST model from Clint Carney and started looking at 1950-97 recharge. He compiled that by year and county. He noted that the recharge array also contains the boundary flows so that will require a correction.

Dick made a presentation at the modelers meeting in Lincoln on February 20 on the COHYST analysis of reduced irrigated land after 1997. He was a substitute speaker because the scheduled speaker had a conflict.

Dick, Jesse Bradley, Doug Hallum, and Greg Steele met with Jesse Korus of Lower Platte South NRD to discuss modeling the lower part of the Salt Creek alluvium. They discussed various strategies to construct and calibrate a model. Jesse Korus is seeking a grant to do this work.

Plans for next month:

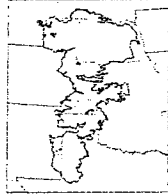
Dick will continue to compare recharge between the RRCA and COHYST models. He will get the latest eastern COHYST model from Steve Peterson and will summarize its recharge. He will build a composite COHYST recharge data set using the two model areas. He will figure out how to build the RRCA recharge for 1950-97 and then he can start comparing that with the COHYST recharge. He will do that for the entire overlap area and for the mound area.

Dick will arrange time to work with Doug Hallum on the COHYST models, working around the COHYST meeting in Lincoln on March 27.

Dick will do other tasks as requested by DNR.

High Plains Hydrology LLC

7956 S. Shawnee St.
Aurora, CO 80016-7206
Phone (303) 693-0299 Cell (303) 916-5973



INVOICE

INVOICE #118
DATE: MARCH 1, 2007

TO:
Nebraska Department of Natural Resources
301 Centennial Mall South
P.O. Box 94676
Lincoln, NE 68509-4676

FOR:
Services of Senior Groundwater Modeler

LABOR DESCRIPTION	HOURS	RATE	AMOUNT
February, 2007, Task 1-1 (see attached spreadsheet)	5.00	\$ 70.00	\$ 350.00
February, 2007, Task 1-2 (see attached spreadsheet)	11.75	70.00	822.50
EXPENSES DESCRIPTION	QUANTITY	UNIT PRICE	LINE TOTAL
TOTAL this Period			\$ 1,172.50
Previous balance			\$ 0.00
Payments received			\$ 0.00
TOTAL			\$ 1,172.50

Make all checks payable to **High Plains Hydrology LLC**
Total due in 30 days. Overdue accounts subject to a service charge of 1% per month.

Thank you for your business!

Date	Start	Stop	Start	Stop	Start	Stop	Hours	Task 1	Task 2	Task 3	DNR 1-1	DNR 1-2	Notes
02/01/2007	11:00 AM	11:15 AM					0.25					0.25	Call with Mike McDonald
02/07/2007	9:00 AM	9:30 AM					0.50	0.50					Call with Steve Peterson. Getting reorganized. Dua Kraus and Drain. 1/27 re: Drain questions.
02/08/2007	6:00 AM	11:30 AM	2:30 PM	5:00 PM			8.00			8.00			Searching for source of 1 check.
02/09/2007	8:00 AM	11:15 AM					3.25			3.25			Looking at Duane's result send me MODFLOW inp
02/12/2007	9:00 AM	11:00 AM					2.00			2.00			Helping Doug with new in
02/14/2007	10:00 AM	12:15 PM	1:45 PM	3:00 PM			3.50			2.50	1.00		Checking Clints OA2FA i messed up.
02/15/2007	6:30 AM	11:15 AM	12:00 PM	6:15 PM			11.00			11.00			Getting reorganized after
02/16/2007	7:15 AM	12:30 PM					5.25			5.25			All times CST. Travel to L
02/20/2007	10:00 AM	12:45 PM	1:15 PM	4:45 PM			6.25	2.75		3.50			Technical Committee me
02/21/2007	9:00 AM	12:30 PM	1:30 PM	4:45 PM			6.75	6.75					All times CST. At DNR w meeting.
02/22/2007	8:15 AM	12:45 PM	1:15 PM	4:45 PM			8.00	4.00			4.00		Proposal to look at new d
02/23/2007	9:00 AM	1:00 PM					4.00	4.00					Clint's new OA2FA stuff k
02/26/2007	11:00 AM	1:00 PM	2:00 PM	5:00 PM			5.00			5.00			Email to Clint about OA2F recharge in pm.
02/27/2007	8:15 AM	12:00 PM	1:15 PM	4:45 PM			7.25	3.00		0.75		3.50	Working on CMU recharg
02/28/2007	8:00 AM	12:30 PM	1:15 PM	4:45 PM			8.00					8.00	February total and total
							79.00	21.00		41.25	5.00	11.75	