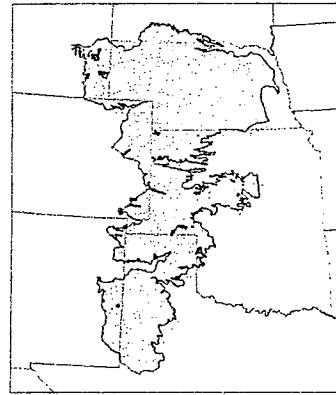


High Plains Hydrology LLC
7956 S. Shawnee St.
Aurora, CO 80016-7206
(303) 693-0299



January 7, 2008

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

RECEIVED

JAN 09 2008

DEPARTMENT OF
NATURAL RESOURCES

Dear Steve:

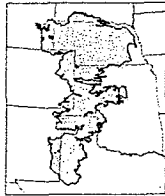
Enclosed please find my monthly report for December, an invoice for the time and expenses for work with the Department of Natural Resource, a spreadsheet supporting the time, and a worksheet supporting the expenses. If you have any questions, please give me a call. Thank you.

Sincerely,

Richard R. Luckey
Senior Hydrologist

High Plains Hydrology LLC

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



INVOICE

INVOICE #138
DATE: JANUARY 7, 2009

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
December, 2007, Task 1-1 (see attached spreadsheet)	0.00	\$ 70.00	\$ 0.00
December, 2007, Task 1-2 (see attached spreadsheet)	101.75	70.00	7,122.50
EXPENSES DESCRIPTION	QUANTITY	UNIT PRICE	LINE TOTAL
Insurance for 2007 (see attached worksheet)			963.92
TOTAL this Period			\$ 8,086.42
Previous balance			\$ 1,557.50
Payments received			\$ 1,557.50
		TOTAL	\$ 8,086.42

RECEIVED

JAN 09 2008

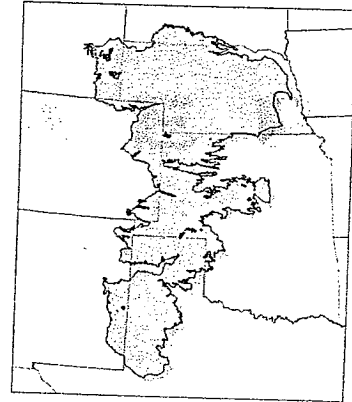
DEPARTMENT OF
NATURAL RESOURCES

OK To Pay
56

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!

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



January 7, 2008

2007 Insurance Cost Worksheet

Annual cost of professional insurance obtained February 2006 = \$3,708.00. (See attached sheet).

Annual cost of professional insurance obtained February 2007 = \$3,193.00. (See attached sheet)

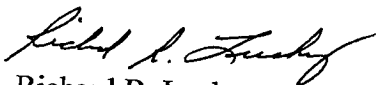
Cost allocated to 2007:

\$3,708.00 * (1/12) =	\$ 309.00
\$3,193.00 * (11/12) =	<u>2,926.92</u>
	\$ 3,235.92

Hours worked for COHYST in 2007 =	968.75
Hours worked for DNR in 2007 =	<u>411.00</u>
Total hours worked in 2007 =	1,379.75

2007 insurance charged to COHYST = $\$3,235.92 * (968.75/1379.75) = \$2,272.00$

2007 insurance charged to DNR = $\$3,235.92 * (411.00/1379.75) = \$ 963.92$


Richard R. Luckey
Senior Hydrologist

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JAN 09 2008
DEPARTMENT OF
NATURAL RESOURCES

Date	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Hours	Task 1	Task 2	Task 3	Task 4	DNR 1-1	DNR 1-2	Notes
12/03/2007	10:00 AM	12:30 PM	3:30 PM	5:00 PM					4.00	0.50			1.50		2.00	Monthly reports. Call from Doug on new depletions by NRD (NbyNRD) spreadsheets. Finding logbook entry on recharge checking for Doug. RRCA-COHYST specific yield maps and graphs to documentation
12/04/2007	7:00 AM	11:45 AM	4:15 PM	7:00 PM					7.50	0.50					7.00	Review Jim Schneider's memo to Ann Bleed for COHYST. Checking RRCA specific yield discrepancy. RRCA-COHYST pumpage figures. Pumpage graphs. Recharge maps (partial)
12/05/2007	8:45 AM	12:00 PM	1:30 PM	5:00 PM					8.75	1.00					5.75	RRCA-COHYST recharge (partial). Talked with Jim S. about memo on COHYST models. RRCA net stress maps and graphs (partial). Talked with Duane about Sponsors meeting. Cleanup database for CycleWell
12/06/2007	7:45 AM	12:30 PM	2:45 PM	5:15 PM					7.25	1.00					6.25	Make new CycleWell database and backed up one. Emails to Kevin, Don K. and Duane. RRCA-COHYST net stress (partial). Downloaded RRCA MODFLOW files and looked at them. Read into GMS okay but could not look at ET or recharge.
12/07/2007	8:45 AM	12:30 PM							3.75						3.75	Looking at RRCA MODFLOW files. Working on output control to get heads for 1918, 1950, and 1988. Remade conductive parameter maps without heat line.
12/10/2007	7:15 AM	12:30 PM	1:30 PM	2:45 PM	3:45 PM	4:45 PM			7.50	3.50					4.00	CycleWell results to spreadsheet. Fighting and fixing ArcMap problems. Update RRCA-COHYST documentation maps. Ran RRCA calibrated model. FAILED to converge.
12/11/2007	7:00 AM	12:30 PM	1:30 PM	5:00 PM					9.00	1.00					8.00	Worked on program to read RRCA head file. Downloaded head files. Made it into ASCII file. Extracted 1918, 1950, and 1988 head. Looked at ET parameters. Started CycleWell on old IBM ThinkPad. Tended to CycleWell on big Dell.
12/12/2007	8:00 AM	12:30 PM	2:30 PM	5:00 PM					7.00	1.00					6.00	Put RRCA-COHYST pumpage maps in documentation. Explaining CycleWell to Kevin (1 hour). RRCA-COHYST recharge maps to documentation. Some net stress maps to documentation. Looking at RRCA simulated heads. Limited head text to doc (partial). Simulated. Head maps to doc (partial).
12/13/2007	8:00 AM	12:30 PM	1:15 PM	5:00 PM					8.25	2.75					5.50	RRCA-COHYST simulated water levels. COHYST conference call (2 hours). Finding observed water level changes and documentation for Doug (0.75 hours). Finished water level maps in RRCA-COHYST documentation. Added text about maps. Built graphs of RRCA-COHYST water-level difference.
12/14/2007	7:00 AM	12:30 PM	1:45 PM	5:15 PM					9.00	0.25					8.75	Tend to CycleWell (1/4 hr). RRCA-COHYST water level description in text. Maps of RRCA water-level change. Making COHYST water-level change maps. Making water-level change difference maps. Writing text about differences.
12/17/2007	7:15 AM	12:30 PM	4:00 PM	5:00 PM					8.25	2.00					4.25	Check CycleWell (1/4 hr). Text for RRCA-COHYST water-level change. Found error in my COHYST water levels. Renam central model. Wrote draft task description for OA2FA without recharge bump (1.3/4 hr).
12/18/2007	9:00 AM	11:15 AM	1:00 PM	4:45 PM					6.00						6.00	Making new well file for central model. Running CMU model. Making 1950-98 RRCA model to look at ET. Didn't work in GMS. Writing up general ET text.
12/19/2007	8:15 AM	11:00 AM	3:00 PM	5:15 PM					5.00	0.25					4.75	Tending to CycleWell (1/4 hr). Review CMU simulation. Rebuild CMU well file. Ran CMU model. Export CMU ET data. Update EMU ET data. Check CMU 1950-98 changes. Built COHYST ET data sets. Call from Kevin and call from Clint (1/2 hr). ET depth map.
12/20/2007	7:00 AM	11:45 AM							4.75	0.60					4.25	Tend to CycleWell. Built CycleWell_071205.shp. Built CycleWell_071211.shp. Summarized where I am on CycleWell and restarted CycleWell.
12/28/2007	8:15 AM	12:30 PM	1:15 PM	5:00 PM					8.00	2.75					5.25	Completed RRCA and COHYST ET areas. Started writing program to compute average ET rate for RRCA model.
12/27/2007	8:00 AM	12:30 PM	1:30 PM	4:45 PM					7.75						7.75	Worked on program to get average RRCA ET rate. Had tough time incorporating MODFLOW utilities. Finally worked. Output in array. 071227.txt
12/28/2007	8:00 AM	12:00 PM	1:00 PM	3:00 PM	3:45 PM	4:45 PM			6.00						6.00	Made maps of RRCA and COHYST ET rates. Text on ET depth and rates. Comparing ET surfaces. Text and figure on ET surfaces. Checking where big differences in surfaces came from. Text still pretty rough.
12/31/2007	8:00 AM	12:00 PM	1:15 PM	3:45 PM					6.50						6.50	Downloaded Clints 1950-98 pumpage. Built CMU_071231.gpr. Ran model. Worked on ET section in documentation. Troubleshoot why I cannot run RRCA 1950-98 model.
									120.25	17.00			1.50		101.75	December total and total by task number
									1,378.75	440.00	0.00	211.00	317.75	33.50	377.60	2007 total and total by task number