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

October 2, 2006

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



OCT 0 5 2006

DEPARTMENT OF NATURAL RESOURCES

#### Dear Steve:

Enclosed are my monthly report for September and an invoice for the time and expenses for work with the Department of Natural Resource, and a spreadsheet supporting the time. Also enclosed is a Taxpayer Identification Certification that I think your administrative people will need. If you have any questions, please give me a call. Thank you.

Sincerely,

Dick

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

DATE: OCTOBER 2, 2006

INVOICE #108

FOR:

Services of Senior Groundwater Modeler

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

LABOR DESCRIPTION	HOURS	RATE	AMOUNT
September, 2006, Task 1-2 (see attached spreadsheet)	11.00	\$65.00	\$715.00
			· · · · · · · · · · · · · · · · · · ·
EXPENSES DESCRIPTION	QUANTITY	UNIT PRICE	LINE TOTAL
	·		
		3	
OTAL this Period			715.00
		·	
revious balance		İ	0.00
ayments received			0.00
		TOTAL	\$715.00

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!

-
<u></u>
~
ħ
ĸ
~
- 6
- 2
=
2
×
₽.
20
-34
76
I
a
3
Ð
~
_
À
75
Ε,
£
5
第
ă.
Ē
₹
2
7
8
ř
2
ą.
1
•

100   100	lask 3 DNR 1-1 DNR 1-2 Notes	Review August work. Write monthly report.	EMU results to ND documentation. Checking all ND doc numbers. Update fla. 1 for Wood River. Update fla. 2	New Depletions PowerPoint	EMU Peer Review. Reviewed status. Added text to Annandiv E and EMU I documentastion	EMI Paer Baviaus Annandiy E Chapting EMI for shoot and Emo occurrenced on the	Charles a 1907 to Table 1 and to the control of the	For the province of the provin	observation points	E CANT Description (Market	EMO Feel Keview, worked on remaining comments in Appendix E.	Change in streamflow in mound area. Phone call with Steve on pearched water in southwest part of model.	Peer Review comments for EMU. 1950-98 streamflow. Working on how Sy mapped. Streambed sensitivity comment. Appendix E to Technical	Committee at 5:00 pm. Collate layers report. Read about GeoParm.	EMU Previous Studies section, Work with Steve on EMU noise. Call from Cannia on new acres versus total acrex by NRD for Dannis Stauch.		EMU Previous Studies section. Peer Review suggestions fist updates for Duane.	All times Mountain. EMU Pervious Studies. Travel to Lincoln., Work with Steve on Appendix E and EMU documentation.	All times Central, COHYST Technical Committee in Lincoln, Work with Steve and duane on EMU. Travel (partial charged).	5.25 Looking at Republican model at DNR web site. Studied RRCA model in Appendix J of settlement docs. Download and study stuff from RRCA web	site. Study June 2003 version of model.	5.75 Download Republican model stuff. Organize R. model stuff, Work on R. model comparison plan. Started gathering shapefiles, Checking model zip	files, Reading RRCA MODFLOW files.	11 00 Centember total and total hy trath number
1.15 PM 5:15 PM 6:15 PM 6:15 PM 6:15 PM 6:15 PM 6:15 PM 7:10 P	אאט - אאט							-														_		
1.15 PM 6.15 PM 6.00 PM 7.75 7.75 7.75 7.75 7.75 7.75 7.75 7.7	-		9.25	2.25		_						1						1		_			1	11.50
1.15 PM 6.15 PM 1.00 PM 4.00 PM 1.00 PM 8.45 PM 1.30 PM 8.30 PM 1.30 PM 6.00 PM 1.30 PM 6.00 PM 1.00 PM 4.30 PM 2.00 PM 4.30 PM 2.15 PM 4.30 PM 2.15 PM 4.30 PM	_	3			7.75	7.50	8.00	6.75	-	6.25	5	3 1	0.75	-	4.25	000	300	20.0	9.6					71.25
1.15 PM 6.15 PM 1.00 PM 4.50 PM 1.150 PM 5.00 PM 1.15 PM 5.00 PM 1.30 PM 3.30 PM 1.45 PM 6.00 PM 3.15 PM 6.00 PM 1.00 PM 4.30 PM 2.00 PM 4.30 PM 2.15 PM 4.30 PM 2.15 PM 4.30 PM		3 6	8.25	2.75	7.75	7.50	9.00	6.75		6.25	00 \$	3	0,0		4.25	00.0	9 6	300	0	5.25		5.75		93.75
1.15 PM 1.00 PM 1.15 PM 1.15 PM 1.15 PM 1.30 PM 1.15 PM 1.30 PM 1.20 PM 2.00 PM 2.00 PM	-																	-						_
1.15 PM 1.00 PM 1.15 PM 1.15 PM 1.15 PM 1.30 PM 1.15 PM 1.30 PM 1.20 PM 2.00 PM 2.00 PM	<u> </u>	ANG.			Į.	M.	M	Σ		<u> </u>		746	<u>.</u>				N	PYC	I VA	2	1	Σ		
	_			⊥	_	_ [	ı			_				-		-			1		1		-	-
1000 AM   11:00 CM   12:00 CM	AM	1	_	1	- 1	- 1	- {		1	4	P.			DA	<u> </u>	AM		PM 2.00	PM 2.15		1_			
10.00   10.0	0 AM 11:00	3 AM 12:15	3 AM 9-45	5 AM 12:00	1 AM 42.00	30.2	3 AM 12:30	5 AM 12:30	70.00	C AIM LZ.SC	5 AM 12:45	2 AM 12:00				0 AM 11:30	0 AM 12:00	2 AM 1:00	J AM 12:45	2	5 AM 12:20	15:31		
######################################	2006 10:00			1		١	1		,	- 1									2008 10:00	_				

# Groundwater Modeling Support for the Nebraska Department of Natural Resources Status Report, September 30, 2006

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:

The contract and task authorization to provide modeling support was completed in September so that work could start. Dick had a conference call with Ann Bleed, Steve Gaul, and members of the Planning and Assistance Division on September 21 to discuss this work. The only modeling support needed in September was to pick some dates in October for a conference call with Bureau of Reclamation on a planned study of Ender Reservoir.

Dick spent a few hours looking at the RRCA model. He started at the DNR web site and found the June 2003 documentation and the associated MODFLOW files. He could read some of the files, but not the binary files. He started on an outline of how to compare the RRCA model to the COHYST model.

#### Plans for next month:

Dick will continue to look at the RRCA model documentation to understand the model. He will locate the calibration model so he can start the comparison with the COHYST model. He will complete the outline of how the comparison will be done and will submit that to DNR. After that, a conference call with McDonald-Morrissey will be scheduled.

Dick will participate in a conference call with DNR and Bureau of Reclamation on a planned operational study of Enders Reservoir at a time yet to be determined.

## Form (Rev. November 2005) Department of the Treasury

Internal Revenue Service

### Request for Taxpayer Identification Number and Certification

Give form to the requester. Do not send to the IRS.

· vi	Name (as shown on your income tax return)				•						
page	High Plains Hydrology, LLC						:				
n D	Business name, if different from above										
E											
Print or type Instructions	Check appropriate box: ☐ Individual/ Sole proprietor ☐ Corporation ☐ Partnership ☐ Other ▶		Exempt from backup withholding								
t o	Address (number, street, and apt. or suite no.)	Requester's	er's name and address (optional)								
Print Inst	7956 S. Shawnee Street										
_ :	City, state, and ZIP code										
F Specific	Aurora, CO 80016	Aurora, CO 80016									
See S	List account number(s) here (optional)			,		·					
Pa	Taxpayer Identification Number (TIN)										
back	or your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to kup withholding. For individuals, this is your social security number (SSN). However, for a resi	ident	Soci	al sec	urity n	umbe	r 				
alien	n, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> on	es, it is page 3.				or					
	e. If the account is in more than one name, see the chart on page 4 for guidelines on whose		Emp	ployer identification number							
	ber to enter.		2	0 + 5	0	8	4   9	11	3		
Par	rt II Certification										
Unde	er penalties of perjury, I certify that:				•		-				
1. T	The number shown on this form is my correct taxpayer identification number (or I am waiting	for a numb	ber to	be is	sued	to m	e), and	t			
2. I	am not subject to backup withholding because: (a) I am exempt from backup withholding, or Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report to backup withholding, and	r (b) I have	not	been	notifie	ed by	the In	iterna	al as		

3. I am a U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 4.)

Sign Here

Signature of U.S. person ▶

helt & To

Date > 10/2/200

#### Purpose of Form

A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

**U.S.** person. Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- 1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
  - 2. Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee.

In 3 above, if applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

**Note.** If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

For federal tax purposes, you are considered a person if you are:

- An individual who is a citizen or resident of the United States.
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States, or
- Any estate (other than a foreign estate) or trust. See Regulations sections 301.7701-6(a) and 7(a) for additional information.

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

• The U.S. owner of a disregarded entity and not the entity,

Form W-9 (Rev. 11-2005)