

CONFIDENTIAL SETTLEMENT DOCUMENT

Tasks for Nebraska team

The table that follows summarizes the work program for the Nebraska technical team as of 28 January 2003. There are 11 task categories for which oversight has been assigned to either Mike, Larry, Tom or Lee. Within each numbered task are sub-tasks identified by letter code; these are assigned to specific team members.

The table has a column labeled "when", which indicates the relative schedule for COMPLETION of the indicated work. The schedule for an overall task is given at the beginning of a task description; schedules for sub-tasks are identified only if they differ from the overall schedule. In a few cases, the schedule is a date certain (usually very soon); otherwise it usually identified as a particular month between now and May.

Work on any task can and generally should be undertaken long before the due date. Moreover, a status report on all items is due at the Phoenix meeting, 3-4 February.

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#	What	Who	When	Comments
1	Kansas data request	Lee	By 1/31	
1A	Wells x-y coord	Marc		Not previously assigned
1B	Wells to which scalars applied	Marc		Simplified response appropriate (map, NEW files)
1C	New pumping files (v14?)	Marc		Coordinate with Dan
1D	New pumping summary by county (acres, afy, ac-in, SW by canal, recharge, %conj)	Marc		For whatever is provided in 1C; note QA/QC, have MAW review; add map (?)
1E	SW recharge mound	Marc		Not previously assigned; per Tom, NE is doing detailed study; also Cohyst coordination
1F	CNPPID returns etc.	Jerry		Expect call Dale/Jim; want to understand how we got to cells
1G	Anecdotal evidence	Tom	May no longer be needed	Determine reality, assess scalar, coordinate Cohyst
1H	4 documents	Tom		Some being requested (?); NNRC can be distributed; application was provided
1I	Sprinkler/pivot info.	Tom/Derrel		Or why USGS doesn't apply
1J	NPPD returns etc.	Jerry		Needs to conf LW re meeting
2	Nebraska data request	Lee	February	
2A	Follow-up on request to Kansas	Lee		Primary issues = power/meter checks, recharge glitches, simplifications, errors, other
2B	Follow-up on request to Colorado	Lee		Primary issues = power/meter checks, assessor data; recharge glitches, simplifications, errors, other
2C	Power data	Lee	By 1/31	Date is for LW to send Derrel questions about past results
2D	Other QA/QC	Lee	After receipt of info from other states	Get Derrel's sign-off; e.g. on Colorado's use of transfer data, assessor records

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#	What	Who	When	Comments
3	Accounting	Lee	February	LW needs to review meeting notes
3A	Post-processor of model outputs to accounting inputs	Dan		Move accounting points (Willem); add M&I; table that captures all points explicitly; calendar year
3B	Change factors for surface water returns	Jerry		Redo recharge inputs based on adopted accounting factors
3C	Verify surface water returns	Roger, Jerry	March?	Identify SW return lands in model, USGS model, DNR (other?) data bases; compare to historic Compact accounting; also % gravity.
3D	Co-mingled lands	Roger, Flatwater	March?	Identify co-mingled lands in model, USGS model, DNR (other?) data bases; final procedure for supply and recharge
3E	Reservoir reaches	Dan	March?	Avoid double counting; interact with Ann on whether seepage is in change of storage
3F	Output interpretation	Dan	Eventually	Colorado pumping benefits mainstem; does not impact NF below State Line; etc.
3G	Future changes in canal losses	Maryann		To set stage for study, prepare single Kahr report with focus on losses, and showing it is representative
4	Targets	Larry	February	
4A	New & extended baseflow targets	Larry	1/29 -- to other states	Platte tribs; Platte gains; Muddy; mainstem pre-reservoir; also coordinate Cohyst
4B	Memos on flags	Anna	First memo sent 1/24; restart after 1/29 telecon	Cite "other" SW diversions; other problems. Note have not addressed use of Blaney-Criddle, 25% return
4C	Calibration graphics	Willem		Plot winter and annual total targets; add to outputs
4D	Synoptics data base summary	Larry		Internally need to discuss headwaters data base; ongoing work by DNR/NRDs
4E	Additional water levels	Tom		Any to add?
4F	Continuous recorders	Mike		Yes/no?
4G	Weighting	Mike		NB work by Larson, Dan
4H	Water level maps	Dan		Use to be made of WL and change-maps at various times; includes map of all mounds
4I	Priority water level targets	S. Larson		Sub-set that typically include 5 long records per County

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5	Precipitation recharge	Larry	February	
5A	Cropsim-Modflow interactions	Derrel, Mark, Dan		Co-calibration
5B	Blend Cropsim and post-processor	Jerry/Chad		Object is a single program
5C	Cropsim statistics	Roger	Full memo 1/27	Discuss how to use; expand to land use, etc.
5D	Map/water budget evals	Larry		USGS methods; study differences between basins; runoff implications of methods
5E	Test wisdom by adjusting current algorithm	Team		Intent is to extract wisdom from cropsim, water budgets, and package it as variation on current routine
5F	Reissue memos	Larry	By 1/31	Mass balances; literature; note URD 20%P-2.5inches
5G	Conservation practices	Tom		Status of inventory, SWAT
5H	Federal CP study	Derrel	As needed	Monitor
5I	Adjustment factor for LU	Derrel		Crops -- e.g. winter wheat; trend line for ponds, terraces; establish 1940 condition better?
5J	Precipitation basis for pre-development	Mike		Use 1920-40 average to establish pre-development water budget?
5K	Distribute Statsgo Maps	Derrel		Agreed at Jan GWTC meeting
6	Irrigation recharge	Larry	March	
6A	Organize info. about current inputs	Dan (Marc, Jerry)	When Larry calls	Should be soon; would be nice to have it on memo
6B	Mound issues	Tom		MAW needs to send memo on early period; Jerry needs to verify hydro returns excluded
6C	Assess fixed factors	Derrel		Will we challenge accounting?
6D	Harmonize approach	Lee (Roger, Derrel)	Draft memo 1/29	Assess USGS files as source of system types; use accounting % as end-points and consider changes in past per States/DM
6E	Surface water recharge	Roger		See 3C, 3D
7	Phreatophytes	Larry	March	
7A	Coordinate other states	Larry	Ongoing	Willem, Steve
7B	Footprint: current acres	James		Each State signs off; open water consistent; east side of basin
7C	Footprint: basin factors	James		Each State signs off and/or a calibration approach is developed
7D	ET factor	James, Derrel		Understand Larson scalar; consider vegetation types
7E	ET surface & depth	James	February	
7F	Shape extinction curve	James	February	

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#	What	Who	When	Comments
8	Pumping	Tom	March	
8A	Pumping documentation	MAW (Marc, Derrel)	Mid-February	Initial memo distributed
8B	Alluvial scalar	Maryann	Mid-February	Interact with Lee on questions
8C	QA/QC	MAW (Marc, Derrel)	Mid-February	E.g. abandoned wells; power meters etc.; revisit URD correlation?
8D	Compare to Landon; and AF/cell	Dan -- shift to MAW?		Not essential
8E	M&I pumping	Tom		QA/QC Landon number; net = 50% gross; <50AFY doesn't count
8F	Compare to CIRs	Tom	If KS/CO send us CIRs	Assumes KS/CO find problems in our revised pumping numbers
8G	Update to 2002	Tom	After July 1	Also future pumping in Tri-County; post-processor reform; States have common basis monthlies
8H	Compare net pumping to Compact	Tom		To identify any insights from past records of value now
9	2003 data collection	Tom	April	
9A	Report on who will be doing what, when	Jennifer	At Phoenix	Includes 2001-2002 where possible
9B	Identify all SW diversions that will be inventoried	Jennifer	Site data by Mid-March?	Canal, ditch, pumps: water right #, location, irrigable acres or type of use, system type (and when changed). In summer, actual diversions/acres.
9C	Identify all GW irrigation diversions that will be inventoried	Jennifer	Site data by Mid-March?	Well ID, location, irrigable acres or type of use, system type (and when changed). In summer, actual diversions/acres and method of diversions if not meter. Also acres by crop on county basis.
9D	Climate information	Jennifer		Derrel says the weather station list is wrong
9E	Other information	Jennifer	Summer	CIR, gage, Platte reservoirs, administration, moratorium, non-federal reservoirs, Modflow inputs
9F	Modflow input files	Jennifer	After July 1	Need to provide training; develop new pre-processors

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10	Model Construction	Mike	May	
10A	Construction issues	Dan	February	Base elevations (with Goeke/Somerside); stream elevations; stream network; unconfined model
10B	Aquifer parameters	Dan		Miller's data; Goeke review; how we will confirm geologic realities
10C	Reservoir heads	Mark Phillips	By 1/31	Monthly levels
10D	Alluvial issues	Maryann	March	Compare regional/Kahr models in terms of accounting outputs; resend memo on issues/fixes; lead discussion on gridding & other alternatives
10E	"Fair distribution of residuals"	Team		Issue of how to apply this settlement principle will be addressed on case-specific terms
10F	Application of PEST	McDonald, Anderman		Note short-cuts proposed by Larson
10G	Select Arbitrator	Cookson		Team to suggest names, after DC identifies key attributes
10H	Model documentation	McDonald		Provide TOC; pass on to GWTC
10I	Convert to unconfined	Dan	February	Coordinate with Willem, Steve
10J	Model pre-processing	Dan	February	Coordinate with Willem, Steve
10K	Web-site changes	Willem?	February	E.g. show profiles again; K, T, ST values
10L	Coordinate Cohyst	Mike		Water budget, flows to Platte are particular issues
11	Non-GWTC	Various	As we can	
11A	Assessment of improvement projects	Tom, Jennifer		Advise team if projects need to be modeled, or otherwise evaluated
11B	Sub-basin reports	Anna (Lee, Steve)		Revise per settlement; expand Chapter 1; proceed to others; includes projections through 2020
11C	Legacy	Tom		User guides, data bases with meta data, bibliographies and the like; also use of e-Room, I-connect
11D	Assess administration	Jennifer		Start testing allocation options?