

For 12/9/05

Ann Diers

From: Steve Gaul [sgaul@dnr.state.ne.us]
Sent: Thursday, December 08, 2005 2:50 PM
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Cc: dcookson@notes.state.ne.us; adiers@dnr.state.ne.us; jcannia@dnr.state.ne.us
Subject: List of LB 962 Related Research Topics and Costs



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Attached is the draft research topic budget needs sheet mentioned
in this morning's conference call.

Steve

Additional Budget Needs for LB 962 Related Research Topics Not Previously Funded Or Requested to Be Funded

Technical activities- Groundwater Surface water relationships
Modeling assistance
(Senior Consultant to advise and review modeling efforts)
(Modeling Republican update and Maintain)
(Modeling Cohyst DNR work Update and Maintain)
(Modeling Blue River System - cost share with NRDs)
Developing models for Eastern Nebraska
Estimating the effect of evapotranspiration on water supply in support of modeling
GPS Survey- Monitoring well locations
Estimating the effect of conservation activities on water supply
Investigation and mapping of base flow input to streams
Chemical/Isotope studies to verify interaction between surface water and ground water
Stream Bed conductance-USGS mapping program for bottoms of perennial streams
Monitoring well installation
Surface Water Gauges
Field Investigation of Consumptive Use of Water
Update Land Survey Map
Calmit Land use mapping state wide 2007 coverage
Net Recharge Study (vadose zone infiltration rate studies)
Temperature mapping of Streams for GW-SW interaction using FLIR photography
Total

Estimated Cost FY2005-2006 Estimated Cost FY2006-2007 Estimated Cost FY2007-2008

	100,000	10,000	120,000
	60,000	60,000	60,000
	0	65,000	65,000
	65,000	65,000	65,000
	690,000	355,000	690,000
	180,000	30,000	230,000
	60,000	60,000	60,000
	170,000	170,000	170,000
	190,000	190,000	0
	500,000	500,000	500,000
	300,000	300,000	300,000
	575,000	575,000	575,000
	20,000	0	0
	175,000	175,000	175,000
	123,000	123,000	0
	0	0	400,000
	0	120,000	120,000
	0	100,000	250,000
	3,208,000.00	2,898,000.00	3,780,000.00

for activities to show already reported