Spring Rise Plenary Meeting

29 June 2005

Bismarck, North Dakota

US Army Corps of Engineers
Omaha District

Drought Expenditures - FY 2004

State	Lake	Water Intake	Boat Ramps	Cultural Resource Protection	Noxious Weeds	Total Costs by State
Montana	Ft. Peck Lake	$0	$150,000	$0	$0	$150,000
North Dakota	Lake Sakakawea	$0 1)	$100,000 2)	$25,000	$250,000	$375,000
South Dakota	Lake Oahe	$0	$50,000	$275,000	$150,000	$475,000
Total cost by item:		$0	$300,000	$300,000	$400,000	$1,000,000

Drought Expenditures - FY 2005 (Expected)

Montana	Ft. Peck Lake	$0	$450,000	$20,000	$40,000	$510,000
North Dakota	Lake Sakakawea	$100,000	$195,000 6)	$45,000	$560,000	$900,000
South Dakota	Lake Oahe	$60,000	$0	$635,000	$300,000	$995,000
Total cost by item:		$160,000 3), 4), 5)	$645,000	$700,000	$900,000	$2,405,000

1) $3,000,000 Parshall water intake not included
2) $100,000 Congressional add for ramps not included
3) $50K Ft. Yates, 30K Parshall, 20K Mni Waste', 20K Mandaree, 20K each Wakpala, Oacoma
4) Does not include $600,000 received in FCCE funding for Mni Waste' Phase 1
5) Does not include $250,000 received in FCCE funding for Basin Water intake study
6) $625K Congressional add for ramps not included, also $300K for Ft Stevenson not included

Municipal Intakes on the Missouri River Main Stem Reservoirs

Intake	Population Served	Responsible Agency
Garrison Reservoir		
Whiteshield	720	TAT/BOR
Twin Buttes	425	TAT/BOR
Mandaree	780	TAT/BOR
Four Bears	900	TAT/BOR
Parshall		City of Parshall
Pick City		City of Pick City
City of Garrison	2000	City of Garrison

Intake	Population Served	Responsible Agency
Ft. Randall Reservoir		
City of Chamberlain	5,000	City of Chamberlain
Aurora-Brule RWS		Aurora-Brule RWS
Town of Oacoma	390	Town of Oacoma
Randall Community Water Dist. – Platte		Randall Comm. Water Dist
Randall Community Water Dist. – Pickstown		Randall Comm. Water Dist

Oahe Reservoir		
Ft. Yates	3,400	SRST/BOR
Wakpala	>500	SRST/BOR
Mni Wasté	14,000	CRST

Big Bend Reservoir		
Lower Brule RWSS	1,350	Lower Brule RWSS/BOR
Ft. Thompson – Crow Creek RWS	2,800	Crow Creek Sioux Tribe
Mid-Dakota Rural Water	30,000	Mid-Dakota Rural Water

Gavins Point Reservoir		
City of Springfield	1,600	City of Springfield
Cedar Knox Rural Water Project	3,400	Cedar Knox Rural Water Project
B-Y RWS Intake 1	4,000 (both intakes)	B-Y RWS
B-Y RWS Intake 2	4,000 (both intakes)	B-Y RWS

Omaha District Drought Report

PROJECT: **Garrison, North Dakota** DATE: 27-Jun-2005

Reservoir Elevation Overview:

		30-Day	60-Day	180-Day
5/30/2005	6/27/2005	6/30/2005	7/31/2005	11/30/2005
	Current Lake Elevation (ft. msl)	Projected Elevation (ft. msl)	Projected Elevation (ft. msl)	Projected Elevation (ft. msl)
1808.08	1813.48	1807.6	1804.5	1802.4

Comments:

1. Current reservoir elevation 25.38 ft. below top of conservation pool.
2. Projections based upon Lower Basic Simulation prepared by RCC.
3. Consistent rainfall in early- to mid-June has caused flooding in 10 North Dakota counties including Sioux County and McLean County, which lie adjacent to the Missouri River.
4. June and July runoff predicted to be well below normal.
5. Recent rains have caused a 5.4 ft. rise in reservoir elevation since May 31, 2005.

Omaha District Drought Report

PROJECT: Garrison, North Dakota | DATE: 27-Jun-2005

Water Intake Overview:

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Responsible Agency
					Summer	Winter			
Whiteshield	Operational	1813.48	1787	1812	1792	1792	720	N	TAT/BOR

Comments:
1. The intake screen has been raised approximately 4 feet.
2. Rock from the adjacent shoreline was used to stabilize the shoreline near the intake.
3. An additional 375 cy of rock is being hauled in by the operator to stabilize the shoreline from the water's edge to the high water line.

Future Plans:
1. Ft. Berthold Rural Water System is seeking funding through USDA Emergency Community Water Assistance Grant Program for:
   a. Exploration and mapping of the intake area.
   b. Extending approx. 400 to 500 feet from the current intake screen with 8" to 12" casing pipe. The new intake screen elevation would be approx. 1780 (or lower).
   c. Esimated cost: $1.16 million
   d. Estimated time of completion: Late 2005/Early 2006

Omaha District Drought Report

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Responsible Agency
					Summer	Winter			
Twin Buttes	Operational	1813.48	1786	1810	1790	1790	425	N	TAT/BOR

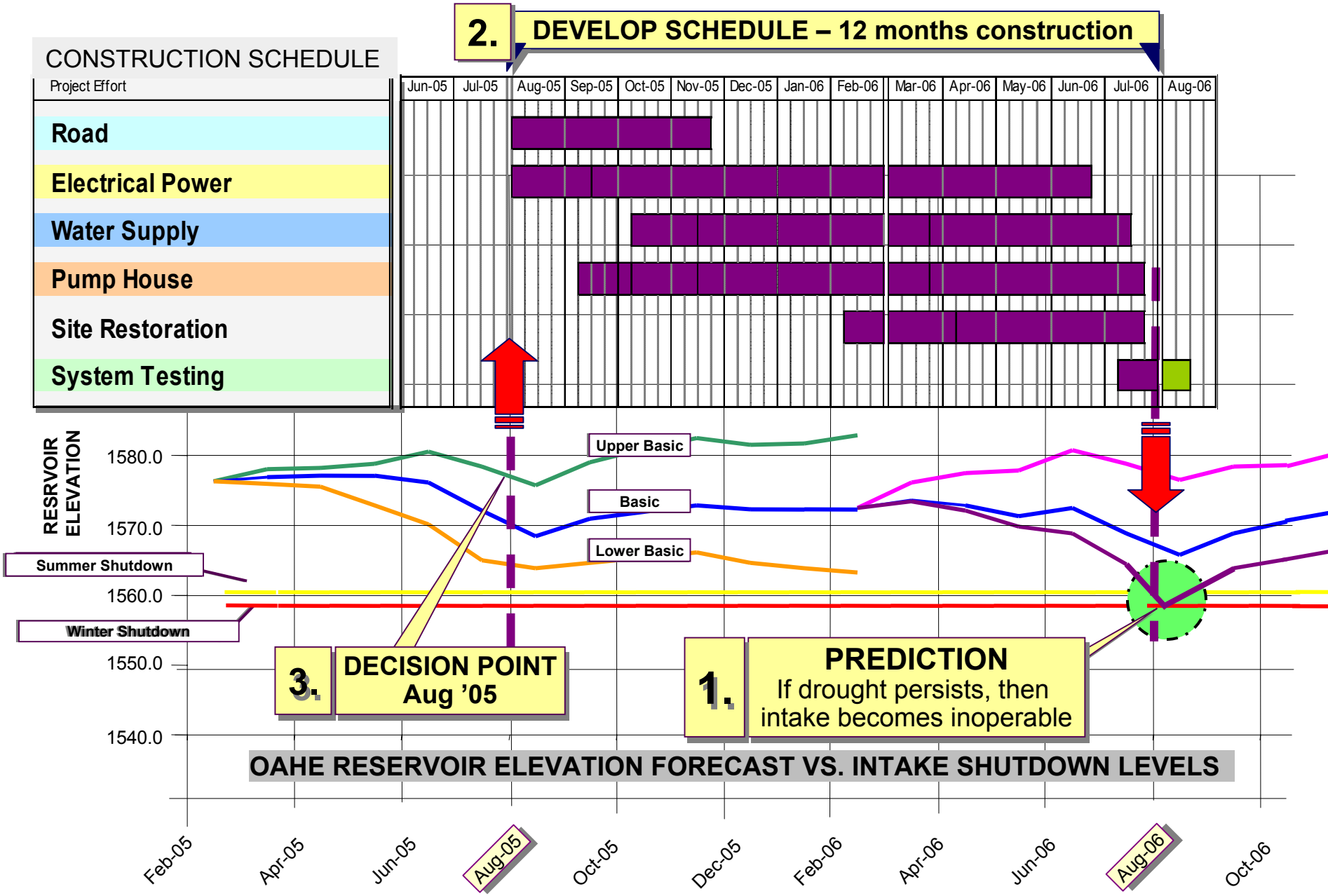
Comments:
1. The current intalke line consists of 2-8" lines, one line tees into the other.
2. Two submersible pumps are located in the lines. One pump is inoperable and is being repaired.

Future Plans:
1. Ft. Berthold Rural Water System is seeking funding through USDA Emergency Community Water Assistance Grant Program to extend and lower the existing intake line and screen. Their plans are to:
   a. Install a new casting approx. 450 feet into the lake.
   b. Install a new 10" to 12" supply line, approx. 300' to 400' beyond the current location to approx. elev. 1780.
   c. Bank stabilization and erosion control over new line.
2. The Corps is currently staffing a request from FBRWS to amend existing waterline ROW.

Intake	Status	Current Reservoir Elev.	Top of Screen Elev.	Operational Concern Elev.	Shutdown Elev.		Population Supported	Contingency Plan? (Y/N)	Responsible Agency
					Summer	Winter			
Mandaree	Operational	1813.48	1795	1811	1791	1791	780	N	TAT/BOR

Comments:
1. Bartlett & West has awarded a contrct to install a new intake at Mandaree.
2. The new intake will lower the screen to elev. 1786.
3. The work should be complete by July 2005.
4. The project will include directional drilling.
5. Grant monies for the work was secured from USDA Rural Utilities Servie and Indian Health Services.

TRIGGER POINT DECISION PROCESS



Questions?