

WETLANDS

ETP Joint SC/MC Meeting

31 July 2003



Wetland Topics

- Avoidance & Minimization
- Functional Assessment of Impacts
- Decision Memo
- Wetland Task & Schedule Review

Avoidance & Minimization

- Competing issue = potential wildlife hazards
- Proposed Approach:
 - Avoid & minimize in defined areas
 - Permit impacts & mitigate for same areas
 - Create wildlife hazard management plan
 - **Monitor potential wildlife hazards**
 - **Stepwise approach to address wildlife hazards should they arise**

Wetlands Functional Assessment

- Wetland Acreage
- WRAP Scores
- Functional Loss Calculations
 - Direct
 - Indirect/Secondary
 - Combined

Project Site JD Wetlands (Direct Impact Zone)

FLUCFCS	Acres
441/600 (510)	902.2
614	452.2
630	424.2
621	127.0
641, 640	8.2
Total	1913.8

Indirect/Secondary Impact Zone (SIZ) Wetlands

FLUCFCS	Acres
441/600 (510)	196.3
614	28.7
630	84.3
621	5.3
641, 640	1.8
Total	316.4

WRAP “Refresher”

- Wetland Rapid Assessment Procedure
 - 6 Variables, scored on scale of 0-3
 - Wildlife utilization (WU)
 - Wetland canopy (WC)
 - Ground cover (GC)
 - Adjacent upland/wetland buffer (BU)
 - Wetland hydrology (HY)
 - Water quality input and treatment (WQ)
 - WRAP Score = $\frac{\text{sum of variable scores}}{\text{sum maximum possible scores}}$ (0-1 scale)

PRE-PROJECT WRAP SCORES

FLUCFCS	WU	WC	GC	BU	HY	WQ	WRAP
441/600	1.2	1.5	1.6	2.75	2.1	2.75	0.66
614	1.2	2.0	1.6	2.75	2.3	2.75	0.70
630	2.25	2.81	1.88	2.75	2.3	2.75	0.82
621	2.6	2.9	2.75	2.75	2.6	2.75	0.91
640,641	2.5	NA	2.5	2.75	2.3	2.75	0.85

SIZ WRAP SCORES (post-project)

FLUCFCS	WU	WC	GC	BU	HY	WQ	WRAP
441/600	0.5	1.5	1.6	1.38	1.47	2.25	0.48
614	0.5	2.0	1.6	1.38	1.38	2.25	0.51
630	1.0	2.81	1.88	1.38	1.61	2.25	0.61
621	1.0	2.9	2.75	1.38	1.82	2.25	0.67
640,641	1.0	NA	2.5	1.38	1.61	2.25	0.58

Direct Functional Loss Calculation

FLUCFCS	Acreage	WRAP (Pre)	WRAP (Post)	Functional Units
441/600	902.2	0.66	0	-596.5
614	452.2	0.70	0	-316.5
630	424.2	0.82	0	-347.4
621	127.0	0.91	0	-115.4
640,641	8.2	0.85	0	-7.0
Total	1913.8			-1382.7

SIZ Functional Loss Calculation

FLUCFCS	Acreage	WRAP (Pre)	WRAP (Post)	Functional Units
441/600	196.3	0.66	0.48	-34.9
614	28.7	0.70	0.51	-5.6
630	84.3	0.82	0.61	-17.8
621	5.3	0.91	0.67	-1.3
640,641	1.8	0.85	0.58	-0.5
Total	316.4			-60.0

Combined Functional Loss

- Direct Functional Loss = -1382.7 units
 - +
 - SIZ Functional Loss = -60.0 units
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- Total = -1442.8 units

Decision Memo

- Assuming the ETP team is in agreement on the following:
 - Wetland impact acres
 - WRAP scores
 - Functional loss calculations
- A decision memo on these topics is presented for approval
- Upon approval, team will proceed to mitigation assessment discussions



Wetland Tasks & Schedule Review

Task 1 – Impact Assessment

- ✓ Approve JD lines/acres
- ❑ Determine potential for avoidance and minimization
- ✓ Determine total area of direct wetland impacts
- ✓ Determine total area of secondary wetland impacts
- ✓ Determine total value of wetland functional loss (WRAP)

Task 2 – Preliminary Design

- ❑ Finalize goals of mitigation (functional units, ratios, acres, types)
- ❑ Collect data on mitigation parcels to support design
- ❑ Develop and evaluate mitigation design alternatives
- ❑ Develop final mitigation performance standards and specific conditions

Task 3 – Final Design & Implementation

- ❑ Issuance of Consolidated Permit
- ❑ Prepare final mitigation design and implementation schedule
- ❑ ETP compliance approval of final design
- ❑ Implementation of mitigation activities
- ❑ Ongoing monitoring, reporting, and resource management

Proposed Schedule

Wetland Task	Completion Date
Task 1 Impact Assessment	July 2003
Task 2 Preliminary Design	October 2003
Task 3 Final Design	May 2004?