

Section 6: Budget Estimates, Schedules, and Contingencies

The 2009 LMP, as an alternative to a Superfund remedy for the lake, will be a long-term and costly endeavor. The lack of funding commitments for previous LMP efforts has been the most significant obstacle to reaching agreement on a plan and to making progress with implementation. DEQ and the Tribe have, therefore, employed a different strategy in the 2009 LMP that focuses on adaptive management for implementation activities (Section 5) and a "tiered" approach to budget requests. Initial emphasis and funding (Tier I) will be placed on working with watershed partners using existing authorities to implement the Management Action Tables (Appendix C). Water quality monitoring will establish existing conditions, track changes over time and identify specific sources of nutrient inputs. As management actions are implemented, ongoing monitoring will determine their effectiveness and the need for additional actions and/or regulations. Monitoring will provide the justification for additional future funding requests (Tier II).

Budget estimates for implementing the 2009 LMP are broken down into two tiers. Tier I (Table 8) consists of the core LMP program elements DEQ and the Tribe believe are the minimum, essential, and ongoing components necessary for initial implementation of the plan. Funding for Tier I must come from the respective governments to be consistent, long-term, and effective. Tier II (Table 9) consists of other programs, projects, and special studies that are related to the LMP, and are either underway or may be warranted in the future, to achieve the LMP goal. Funding for Tier II can come from a variety of sources. One of the critical functions of the DEQ and Tribe LMP Coordinators will be to work with watershed partners to implement MAT recommendations and develop other funding proposals for additional nutrient reduction projects once the inventory is completed.

As co-managers of lake water quality, given their respective Clean Water Act authorities, the Tribe and DEQ have identified their staffing and budget needs to implement the LMP, beginning with the core program (Table 8). Work coordination will be critical, as DEQ and the Tribe focus implementation of the core program in their respective jurisdictions. Planning, reporting, prioritizing and coordination of LMP implementation with watershed partners will be tasks performed together.

The budget estimates for staff contained in Tables 8 and 9 are based on several factors: DEQ and the Tribe's past experience in accomplishing similar work, assumptions for standard indirect rates, standard overhead costs, and using salary levels for experienced staff with the associated benefits and operating costs. High-end estimates were applied to the above factors. Actual costs vary between the Tribe and DEQ, therefore the higher values were used for the sake of simplicity and to avoid underestimation.

The budget estimates for other operating costs in Table 8, and TMDL implementation projects, special studies, and wastewater treatment projects contained in Table 9, are based on additional

factors. Previous costs for similar studies, services such as lab analysis, plant identification, modeling training, and septic tank inventory work were used. The annual estimate of 2 million dollars for TMDL and other nutrient reduction projects (Table 9), comes from actual costs of projects completed in Appendix D. The estimates for wastewater treatment improvements come from a combination of completed engineering feasibility studies and actual cost for completed projects. The cost estimates for Tier II of the LMP are given to provide a realistic frame of reference for future potential costs of additional nutrient reduction actions that may be needed. Completion of the comprehensive nutrient inventory and ongoing monitoring in Tier I will identify, prioritize, and justify the need for additional implementation projects and special studies to answer key water quality questions.

Since the LMP is functioning as an alternative to a Superfund remedy for the lake, it makes sense that the work be planned, conducted, reported, and reviewed on timelines that coincide with implementation of the OU3 ROD for the basin. Tables 8 and 9, therefore, include a 5-year planning horizon. The core LMP program is ongoing and must be funded annually. Monitoring will help determine priorities for many of the Tier II program components. Section 5 describes, more specifically, the timeframes and accountability mechanisms to track implementation progress and effectiveness, long-term.

DEQ and the Tribe have developed and submitted funding requests to their respective governments in order to implement the core LMP program in 2009. The State legislature and Tribal Council have the discretion to approve funding as requested, approve a different funding scenario or disapprove the requests.

Funding decisions cannot be predicted, therefore, contingencies must be identified. If staffing and funding to implement the complete core LMP program is not approved in 2009, the following are possible alternative scenarios for proceeding with a reduced level of LMP implementation:

- 1) Evaluate existing staff and resources and prioritize elements of the core program that can be implemented accordingly
- 2) In addition to #1, identify components of the core program that would be appropriate and timely for seeking EPA grants to implement
- 3) In addition to #1 and #2, identify components of the core program that would be appropriate and timely to seek funding contributions from other watershed partners to complete specific work through contracts
- 4) In addition to #1, #2 and #3, identify components of the core program that would be appropriate and timely to enter into agreements with other watershed partners to complete specific work

The Tribe and DEQ understand that if the LMP is not funded in the immediate future, including the scenarios above, an EPA directed and funded Superfund remedy for the lake remains an option.

Table 8. Budget Estimates & Proposed Schedule for Tier I – Core LMP Program Implementation

I. CORE 2009 LMP PROGRAM	Year 1	Year 2	Year 3	Year 4	Year 5	Comments
1. LMP Coordination						See footnote* – “fully loaded” See footnote** – “currently funded”
DEQ						Personnel costs have been adjusted 5%/yr for inflation after Year 1.
a. DEQ LMP Coordinator - Analyst 4	<i>110,000</i>	<i>115,500</i>	<i>121,275</i>	<i>127,339</i>	<i>133,706</i>	1.0 FTE - existing DEQ position **
b. DEQ administrative support	16,500	17,325	18,191	19,101	20,056	0.25 FTE - new DEQ position
c. LMP materials (reports, CDs, mailing)	4,000	2,000	2,000	2,500	2,500	
d. Conduct Management Action Table audit	--	--	--	--	5,000	
DEQ subtotal:	130,500	134,825	141,466	148,940	161,262	
Tribe						
a. Tribe LMP Coordinator	110,000	115,500	121,275	127,339	133,706	1.0 FTE - new Tribe position
b. Tribe administrative support	16,500	17,325	18,191	19,101	20,056	0.25 FTE - new Tribe position
c. LMP materials (printing, CDs, mailing)	4,000	2,000	2,000	2,500	2,500	
d. Conduct Management Action Table audits	--	--	--	--	5,000	
Tribe subtotal:	130,500	134,825	141,466	148,940	161,262	
LMP Coordination Total:	261,000	269,650	282,932	297,880	322,524	
2. Routine Monitoring						
DEQ						
a. Limnology position - Analyst 4	110,000	115,500	121,275	127,339	133,706	1.0 FTE - new DEQ position
b. Technician position - Analyst 3	70,000	73,500	77,175	81,034	85,085	1.0 FTE - new DEQ position
c. Administrative staff	16,500	17,325	18,191	19,101	20,056	0.25 FTE - new DEQ position
d. Nutrient & phytoplankton samples - lab analysis	20,000	20,600	21,218	21,855	22,510	
e. Metals & chlorophyll samples - EPA lab analysis	<i>13,000</i>	<i>14,300</i>	<i>14,730</i>	<i>15,170</i>	<i>15,625</i>	EPA funded in Year One **
f. Monitoring supplies, equipment, operating	12,000	12,360	12,731	13,113	13,506	
g. Aquatic plant assessments	4,000	4,000	4,000	4,000	4,000	
h. Contractual for CWR modeling support	10,000	10,000	10,000	10,000	10,000	
DEQ subtotal:	255,500	267,585	279,320	291,612	304,488	

*Note: the term, "fully loaded" is referring to all costs associated with staff positions, including: salary, fringe benefits, travel, office space, equipment, indirect, and other associated expenses. **Note: costs in italics are currently funded.

Table 8. continued Budget Estimates & Proposed Schedule for Tier I – Core LMP Program Implementation

I. CORE 2009 LMP PROGRAM	Year 1	Year 2	Year 3	Year 4	Year 5	Comments
2. Routine Monitoring cont.						
Cd'A Tribe						
a. Computer modeler, analysis, reporting	115,000	120,750	126,788	133,127	139,783	1.0 FTE - new Tribe position
b. Limnology position	110,000	115,500	121,275	127,339	133,706	1.0 FTE - new Tribe position
c. Technician position	70,000	73,500	77,175	81,034	85,085	1.0 FTE - new Tribe position
d. Administrative staff	16,500	17,325	18,191	19,101	20,056	0.25 FTE - new Tribe position
e. Nutrient & phytoplankton samples - lab analysis	20,000	20,600	21,218	21,855	22,510	
f. Metals & chlorophyll samples - EPA lab analysis	13,000	14,300	14,730	15,170	15,625	EPA funded in Year One **
g. Monitoring supplies, equipment, operating	12,000	12,360	12,731	13,113	13,506	
h. Aquatic plant assessment	20,000	20,000	20,000	20,000	20,000	Milfoil control began in 2005
i. Contractual for CWR modeling support	10,000	10,000	10,000	10,000	10,000	
Tribe subtotal:	386,500	404,335	422,108	440,739	460,271	
Routine Monitoring Total:	642,000	671,920	701,428	732,351	764,759	
3. Basin-wide Nutrient Inventory (3 years)						
		Begin		End		
<i>Sampling, data mining, analysis, computer modeling, reporting</i>						
DEQ						
a. Limnologist	--	0	0	0	--	Same staff as in I.2
b. Technician position	--	0	0	0	--	Same staff as in I.2
c. Administrative staff	16,500	17,325	18,191	19,101	20,056	0.25 FTE - new DEQ position
d. Nutrient samples - lab analysis	--	8,000	8,000	8,000	--	
e. Operating, supplies, equipment	--	4,000	4,000	4,000	--	
f. Contractual	--	10,000	10,000	10,000	--	(e.g., GIS, and data mining)
DEQ subtotal:	16,500	39,325	40,191	41,101	20,056	

Table 8. continued Budget Estimates & Proposed Schedule for Tier I – Core LMP Program Implementation

I. CORE 2009 LMP PROGRAM	Year 1	Year 2	Year 3	Year 4	Year 5	Comments
3. Basin-wide Nutrient Inventory cont.		Begin		End		
Cd'A Tribe						
a. Computer modeler, analysis, reporting	--	0	0	0	--	Same staff as in I.2
b. Limnology position	--	0	0	0	--	Same staff as in I.2
c. Technician position	--	0	0	0	--	
d. Administrative staff	16,500	17,325	18,191	19,101	20,056	0.25 FTE - new Tribe position
e. Nutrient samples - lab analysis	--	8,000	8,000	8,000	--	
f. Operating, supplies, equipment	--	4,000	4,000	4,000	--	
g. Contractual	--	10,000	10,000	10,000	--	(e.g., GIS, and data mining)
Tribe subtotal:	16,500	39,325	40,191	41,101	20,056	
Nutrient Inventory Total:	33,000	78,650	80,382	82,202	40,112	
4. Education & Outreach Program						
DEQ						
a. DEQ outreach specialist - Analyst 3	102,000	107,100	112,455	118,078	123,982	1.0 FTE - new DEQ position
b. Administrative staff	33,000	34,650	36,383	38,202	40,112	0.5 FTE - new DEQ temp position
DEQ subtotal:	135,000	141,750	148,838	156,280	164,094	
Tribe						
a. Tribe outreach specialist	102,000	107,100	112,455	118,078	123,982	1.0 FTE - new Tribe position
b. Administrative staff	33,000	34,650	36,383	38,202	40,112	0.5 FTE - new Tribe position
Tribe subtotal:	135,000	141,750	148,838	156,280	164,094	
Shared Program						DEQ & Tribe share costs 50/50
a. Outreach materials and equipment (e.g., reference library, printing, CDs, mailing, school displays)	5,000	25,000	20,000	10,000	10,000	Includes Lake*A*Syst materials
b. Stewardship Center facility cost (rental, utilities)	--	24,000	25,200	26,460	27,783	Pending needs assessment in Year 1
c. Stewardship Center services, equipment & supplies	--	50,000	10,000	10,000	10,000	Pending needs assessment in Year 1
Shared subtotal:	5000	99,000	55,200	46,460	47,783	
Education & Outreach Total:	275,000	382,500	352,876	359,020	375,971	
CORE Grand Total:	<u>1,211,000</u>	<u>1,402,720</u>	<u>1,417,618</u>	<u>1,471,453</u>	<u>1,503,366</u>	

Table 9. LMP Budget Estimates & Proposed Schedule for Tier II – Programs, Projects & Studies

II. 2ND TIER LMP PROGRAM	Year 1	Year 2	Year 3	Year 4	Year 5	Comments
1. TMDL Program Coordination						See footnote* – “fully loaded” See footnote** – “currently funded”
DEQ						Personnel costs have been adjusted 5%/yr for inflation after Year 1.
a. TMDL Coordinator - Analyst 3	<i>102,000</i>	<i>107,100</i>	<i>112,455</i>	<i>118,078</i>	<i>123,982</i>	1.0 FTE – existing DEQ position
b. TMDL administrative support	16,500	17,325	18,191	19,101	20,056	0.25 FTE - new DEQ position.
c. TMDL materials (reports, CDs, mailing)	2,000	2,000	2,000	2,000	2,000	
DEQ subtotal:	120,500	126,425	132,646	139,179	146,038	
CdA Tribe						
a. TMDL Coordinator	102,000	107,100	112,455	118,078	123,982	1.0 FTE – new Tribe position
b. TMDL administrative support	16,500	17,325	18,191	19,101	20,056	0.25 FTE – new Tribe position
c. TMDL materials (reports, CDs, mailing)	2,000	2,000	2,000	2,000	2,000	
Tribe subtotal:	120,500	126,425	132,646	139,179	146,038	
TMDL Program Coordination Total:	241,000	252,850	265,292	278,358	292,076	
2. TMDL Implementation Projects						
Projects on TMDL & non-303(d) waterbodies	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	Estimates based on Appendix D project costs
TMDL Implementation Total:	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	
3. Eurasian Watermilfoil Control Treatments						Same staff as in I.2. Additional costs include: contracts, materials-supplies, and lab analysis.
Control treatments for Eurasian Watermilfoil	180,000	180,000	180,000	180,000	180,000	Estimate based on treatment application costs since 2006
EWM Treatment Total:	180,000	180,000	180,000	180,000	180,000	

*Note: the term, "fully loaded" is referring to all costs associated with staff positions, including: salary, fringe benefits, travel, office space, equipment, indirect, and other associated expenses. **Note: costs in italics are currently funded.

Table 9. continued LMP Budget Estimates & Proposed Schedule for Tier II – Programs, Projects & Studies

II. 2ND TIER LMP PROGRAM	Year 1	Year 2	Year 3	Year 4	Year 5	Comments
4. Special Studies						Same staff as in I.2. Additional costs include: contracts, materials-supplies, and lab analysis.
a. Establish, and maintain two (2) in-lake meteorological stations	--	120,000	2,000	2,000	2,000	
b. Zooplankton sampling and analysis	1,000	1,000	1,000	1,000	1,000	
c. Benthic invertebrate sampling, and analysis	--	10,000	10,000	--	--	
d. Update fish consumption advisory: conduct fish tissue sampling - study food chain biomagnification of metals concentrations	--	--	--	10,000	10,000	
e. Lakebed surface sampling and sediment coring	200,000	--	--	--	--	
f. Continue sediment benthic flux of metals/nutrients (through USGS contract)	--	--	--	--	50,000	
g. DEQ land use change and runoff characteristics, existing proposed study (March 2006)	--	20,000	20,000	--	--	
h. Nearshore studies of suspected septic drainfield impacts (periphyton, aquatic plants, groundwater monitoring wells)	--	--	--	75,000	75,000	
i. Aquatic plant contributions to internal nutrient loading	--	10,000	10,000	10,000	--	
Special Studies Total:	201,000	161,000	43,000	98,000	138,000	

Table 9. continued LMP Budget Estimates & Proposed Schedule for Tier II – Programs, Projects & Studies

II. 2ND TIER PROGRAMS	Year 1	Year 2	Year 3	Year 4	Year 5	Comments
The estimated costs below for WWTPs were supplied by the Sewer Districts from various planning documents						
5. Upgrades to Wastewater Treatment Plants- Upstream						
a. South Fork Coeur d'Alene River Sewer District	--	14,000,000				Total WWTP costs are shown in one year, but actual expenses occur over many years
b. Smeltonville	--					
c. Clarkia WWTP	--	30,000				
d. Santa/Fernwood WWTP	--	39,000				
e. St. Maries WWTP	--	59,000				
f. Harrison WWTP	--	150,000				
g. Plummer WWTP	--	8,000,000				
Upstream WWTP Upgrades Total:		22,278,000				
6. Embayment Sewage Systems Upgrades						
	--	--				To be determined
7. Upgrades to Wastewater Treatment Plants-Downstream						
a. City of Coeur d'Alene WWTP	--	15,000,000				
b. City of Post Falls WWTP	--	14,000,000				
c. Hayden Area Regional Sewer Board	--					
Downstream WWTP Upgrades Total:		29,000,000				
8. Additional Funding/Staffing for MATs Implementation						
	--	--				To be based on coordination with MAT partners
	--	--				To be determined