

APPENDIX E-3

**SWIFT RESERVOIR SHORELINE DISPERSED SITE
INVENTORY AND CONDITION FORMS**

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir: <u>Swift</u>	Date: <u>9/7/00</u>
Site Number: <u>1</u>	Researcher: <u>JJK</u>

Indicators	Notes
General Site Description	3 sites on Island 1) main – adjacent to water NE side of cove 60' x 20' 2) 10' x 10' 3) 4' x 6' stable size
Built Features	Benches, 1 fire ring, Flagpole with flag Latrine – 5' x 5' x 6' tall black plastic around poles for ground latrine
Bare Ground and Compaction	around site and connecting trails
Litter and Debris	cans, aluminum foil, plastic in fire ring
Sanitation Problems	the latrine appears to be a dig and bury system
Erosion	some foot path erosion from main site to water
Vegetation Damage	smallest site was recently cleaned of ground cover and a 5' dbh tree
Proximity to Wetlands	none
Proximity to Riparian	none
Other	sheltered boat approach

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	_____
Site Number:	<u>2 & 3</u>	Researcher:	_____
Roll #	<u>1</u>	Picture	<u>18 & 19</u>

Indicators	Notes
General Site Description	Flat bench on point adjacent to large cobble/mudflat (low pool) No evidence of recent (2 yrs) camping
Built Features	Nothing A couple of old truck tires
Bare Ground and Compaction	Game trails
Litter and Debris	a few scattered papers
Sanitation Problems	none
Erosion	beach access is good, no shore erosion
Vegetation Damage	none
Proximity to Wetlands	0
Proximity to Riparian	0
Other	Has potential for 2-3 campsites – 20’ x 20’ each. Could have more as flat bench goes back at least 150’ from water. In early afternoon beach site is exposed to wind (large fetch).

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>4</u>	Researcher:	<u>JD</u>
Photos	<u>20 & 21</u>		

Indicators	Notes
General Site Description	Large site with cleared understory – wooded, but with open feel
Built Features	sauna (wooden posts) several drift wood benches and shelves
Bare Ground and Compaction	large barren core with adjacent are with duff only
Litter and Debris	Relatively clean no “trashy” feel
Sanitation Problems	none apparent near site
Erosion	small area near sauna
Vegetation Damage	relatively little given perceived heavy use
Proximity to Wetlands	none
Proximity to Riparian	none
Other	cleaned understory gives site a clean feel

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS
Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>5</u>	Researcher:	<u>JD</u>
Photos	<u></u>		<u></u>

Indicators	Notes
General Site Description	Site occupied at time of inventory. Comments based on reconnaissance from water Large site.
Built Features	1 wooden picnic table
Bare Ground and Compaction	large area
Litter and Debris	unknown
Sanitation Problems	unknown
Erosion	small areas of erosion near site stairs dug into shore
Vegetation Damage	unknown (previous studies have documented heavy damage to trees)
Proximity to Wetlands	none
Proximity to Riparian	none
Other	

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS
Lewis River Hydroelectric Projects

Reservoir:	Swift	Date:	8/31
Site Number:	6	Researcher:	JD
Photos:	15, 16, 17, 19		

Indicators	Notes
General Site Description	Medium site on point
Built Features	table and shelves (wood)
Bare Ground and Compaction	large fully barren area although not as “sprawly” as other sites
Litter and Debris	relatively clean some debris – ashes scattered around
Sanitation Problems	well built wooden toilet behind site – prevents most other sanitation problems
Erosion	East side has extensive shoreline erosion (>50 feet) small area on shoreline of cove
Vegetation Damage	Some small trees have been cut hatchet damage to trees near barren core
Proximity to Wetlands	none
Proximity to Riparian	none
Other	nice location

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>8/31/00</u>
Site Number:	<u>7</u>	Researcher:	<u>JD</u>
Photos:	<u>18</u>		

Indicators	Notes
General Site Description	Small site screened by large stump
Built Features	1 fire ring (small) light use
Bare Ground and Compaction	Small area surrounding fire ring no well compacted area for tent pad
Litter and Debris	relatively clean
Sanitation Problems	some toilet paper, but light use
Erosion	very small area
Vegetation Damage	little damage to live vegetation (some on 2 trees) downed logs have been hatch marks
Proximity to Wetlands	none
Proximity to Riparian	none
Other	Possible a satellite fire area from site 6 – does not appear to have adequate camping or land sites.

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>7A</u>	Researcher:	<u>JD</u>
Photo	<u>10 (8, 9 are of exposed area nearby (old rings))</u>		

Indicators	Notes
General Site Description	very small site looks more like a toilet area
Built Features	none
Bare Ground and Compaction	none (5 x 5 are with no veg)
Litter and Debris	none
Sanitation Problems	lots of toilet paper and human waste
Erosion	small trail to site, no beach
Vegetation Damage	none
Proximity to Wetlands	none
Proximity to Riparian	none
Other	probably not a true site

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>8</u>	Researcher:	<u>JD</u>
Photos:	<u>11, 12, 13, 14</u>		

Indicators	Notes
General Site Description	Large, open site at mouth of creek
Built Features	user constructed concrete steps (new) shelf (wood) large fire ring stump/plywood table and bench
Bare Ground and Compaction	large area extends upstream of the site
Litter and Debris	relatively clean – although some bricks, leftover concrete
Sanitation Problems	Few, probably due to toilet behind site
Erosion	some erosion near new steps where access from creek is
Vegetation Damage	trees heavily damaged – hatchet and shotgun damage
Proximity to Wetlands	small wetland areas south of site
Proximity to Riparian	directly adjacent to creek
Other	“airy” site due to big leaf maple overstory – some cedar

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>9</u>	Researcher:	<u>JD</u>
Photos:	<u>22, 23</u>		

Indicators	Notes
General Site Description	Medium sized on point
Built Features	2 wooden benches small, lightly used fire ring primitive toilet steps carved into the bank small, lightly used fire ring
Bare Ground and Compaction	medium barren core
Litter and Debris	clean
Sanitation Problems	none (toilet)
Erosion	little
Vegetation Damage	none
Proximity to Wetlands	none
Proximity to Riparian	none
Other	

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir: <u>Swift</u>	Date: <u>8/31/00</u>
Site Number: <u>10</u>	Researcher: <u>JD</u>

Indicators	Notes
General Site Description	Large site, well-shaded
Built Features	2 fire rings 1 on shore 1 below water line well built table fresh cut wood stumps ropes hanging from tree
Bare Ground and Compaction	large area of compaction
Litter and Debris	fairly clean
Sanitation Problems	nothing major
Erosion	large area of shoreline erosion exposed roots
Vegetation Damage	fire and cut damage to trees
Proximity to Wetlands	
Proximity to Riparian	in a stand of red cedars, maple and alder
Other	

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>11</u>	Researcher:	<u>JD</u>
Photos:	<u>1, 2, 3</u>		

Indicators	Notes
General Site Description	Large sprawling site
Built Features	BBQ, small table, floating dock
Bare Ground and Compaction	large area – large patches connected by smaller paths
Litter and Debris	“trashy” lots of down debris concrete sacks old logging and construction (?) equipment
Sanitation Problems	much more noticeable behind site
Erosion	extensive, particularly near dock and bbq
Vegetation Damage	nearly tree has damage chop marks several small stumps
Proximity to Wetlands	none
Proximity to Riparian	Douglas fir, maple, red-cedar
Other	Heavy use – trail to 12, faint trail to 10, trail behind site

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>12</u>	Researcher:	<u>JD</u>
Photos:	<u>4,5</u>		

Indicators	Notes
General Site Description	Smaller site than 10, 11, more traditional use pattern
Built Features	1 fire ring 1 table
Bare Ground and Compaction	confined to table and tent area, but still relatively large
Litter and Debris	fairly clean, little litter and downed debris
Sanitation Problems	very noticeable along trail behind site
Erosion	small area below fire ring
Vegetation Damage	minor tree damage
Proximity to Wetlands	20 feet from stream channel but out of wetland zone
Proximity to Riparian	in trees, but out of streamside vegetation
Other	trail behind site, dirt steps up bank , may be an adjoining area for 11

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>13</u>	Researcher:	<u>JD</u>
Photos:	<u>6, 7</u>		

Indicators	Notes
General Site Description	Medium sized site Small clearing at water's edge
Built Features	1 makeshift table 1 bbq grill cover over fireplace 1 small fire ring (1 small other fire scar)
Bare Ground and Compaction	medium sized area, near fire ring and table behind
Litter and Debris	relatively clean
Sanitation Problems	not as much as 10-12m no user defined area
Erosion	relatively small area where tie-up would be
Vegetation Damage	little damage to standing trees
Proximity to Wetlands	directly above small creek (perennial?)
Proximity to Riparian	In trees, above stream, beneath 3 large hemlock
Other	Site seems to get lower counts of use

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	Swift	Date:	9/7/00
Site Number:	14	Researcher:	JJK
Photo Roll#	1	Picture #	17

Indicators	Notes
General Site Description	10' x 10' on point Lots of early sun, shaded later, afternoon no beach at full poll
Built Features	rope swing, table, fire ring, a couple of log seats, assorted drift wood piles
Bare Ground and Compaction	around campsite and limited trails
Litter and Debris	a few papers around fire ring
Sanitation Problems	a 10' x10' site in the forest that could be used as a camp site is used as a toilet, lots of toilet paper, etc.
Erosion	2 foot bank erosion leading to site, wind/wave action
Vegetation Damage	cleared around camp site
Proximity to Wetlands	none
Proximity to Riparian	none
Other	Needs a pit toilet, could then use second campsite

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>9/6/00</u>
Site Number:	<u>15</u>	Researcher:	<u>JJK</u>
Photo roll #	<u>1</u>	Picture #	<u>12, 13</u>

Indicators	Notes
General Site Description	1 – 80' x 60' adjacent to dam road, little shade 2 – 10' x 20' at end of spur road from dam
Built Features	2 fire rings at big site, three fire rings at second
Bare Ground and Compaction	tire trails good grass cover at camp sites
Litter and Debris	at road spur end, plastic debris, beer packing, big site has empty fuel tin
Sanitation Problems	none apparent
Erosion	on trail leading to beach
Vegetation Damage	tire trail through 2 small (2' wide) seeps
Proximity to Wetlands	road through seeps
Proximity to Riparian	none
Other	large site generally clean, small site looks like party site

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>9/6/00</u>
Site Number:	<u>16</u>	Researcher:	<u>JJK</u>
Photo roll#	<u>1</u>	Picture #	<u>10, 11</u>

Indicators	Notes
General Site Description	Upland site in PSME Forest 1 – 20 x 30' 2 – 7' x 10' 3 – 10 x 10' all upland but adjacent to water
Built Features	7' x 4' table build around 2 alders, fire ring, sturdy picnic table from rough cut fir, lantern hanger, clothes line, a couple of metal grills, old float dock 8' x 4'
Bare Ground and Compaction	at camp sites and connecting trails
Litter and Debris	none – clean
Sanitation Problems	looks like an old compost toilet of sorts, still used?
Erosion	1' cut bank from wind/waves
Vegetation Damage	just along trails
Proximity to Wetlands	none
Proximity to Riparian	largest site is adjacent to 1cfs stream and salmon berry riparian zone – undamaged, however
Other	very well kept site

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>9/6/00</u>
Site Number:	<u>16 A</u>	Researcher:	<u>JJK</u>
Photo roll #	<u>1</u>	Picture #	<u>9</u>

Indicators	Notes
General Site Description	small 5' x 10', no shade, on water above high pool
Built Features	old fire ring
Bare Ground and Compaction	bare around fire ring, no trails observed
Litter and Debris	no debris
Sanitation Problems	non observed
Erosion	moderate shoreline erosion
Vegetation Damage	none
Proximity to Wetlands	none
Proximity to Riparian	none
Other	small site, seems unlikely campsite

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir:	<u>Swift</u>	Date:	<u>9/6/00</u>
Site Number:	<u>17</u>	Researcher:	<u>JJK</u>
Photo roll #	<u>1</u>	Picture #	<u>7</u>

Indicators	Notes
General Site Description	Several sites in 2 upland forest PSME, each around 10' x 10' 2 beach sites – 50' x 50'
Built Features	2 fire rings on beach 1 rope swing
Bare Ground and Compaction	bare ground 10' x 10' in upland with trails, second upland site has matted grass
Litter and Debris	minor plastic debris
Sanitation Problems	1 toilet paper site
Erosion	banks of island 1' cut bank, shrinking, wave undercutting
Vegetation Damage	on trails and upland tent sites, bare ground and trampling
Proximity to Wetlands	none
Proximity to Riparian	none
Other	beach at full pool, candidate for erosion control

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>9/6/00</u>
Site Number:	<u>18</u>	Researcher:	<u>JJK</u>
Photo roll #	<u>1</u>	Picture #	<u>5, 6</u>

Indicators	Notes
General Site Description	30 ' x 40' in upland alder forest
Built Features	1 fire ring, a clothes line
Bare Ground and Compaction	bare and compacted soil, stable size
Litter and Debris	cans, bottles, other containers, some cut firewood
Sanitation Problems	none evident
Erosion	4' cut bank at pool edge
Vegetation Damage	from trails, general foot traffic
Proximity to Wetlands	none
Proximity to Riparian	none
Other	steep access lope at low pool

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>9/6/00</u>
Site Number:	<u>19</u>	Researcher:	<u>JJK</u>
Photo roll #	<u>1</u>	Picture #	<u>5, 5</u>

Indicators	Notes
General Site Description	100' x 40' beach shade in afternoon, large trees
Built Features	Several fire rings, pole tripod, one 3' stone wall with drift wood
Bare Ground and Compaction	probably shrinking – 5' cutbank behind beach
Litter and Debris	lots of drift wood, no trash
Sanitation Problems	no evidence
Erosion	adjacent to large slope failure, around 50' cut bank
Vegetation Damage	shrubs falling from cutbank from erosion
Proximity to Wetlands	none
Proximity to Riparian	none
Other	protected from westerly wind, looks clean

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>9/6/00</u>
Site Number:	<u>20</u>	Researcher:	<u>JJK</u>
Photo roll #	<u>1</u>	Picture #	<u>3</u>

Indicators	Notes
General Site Description	80' x 30' on sandy beach, east facing (lee side) also could use wooded bench
Built Features	several fire rings, all bare ground
Bare Ground and Compaction	stable size, away from wind erosion
Litter and Debris	couple of cans, otherwise clean
Sanitation Problems	none visible
Erosion	moderate on point from wave action, deposition on lee (east) side
Vegetation Damage	none
Proximity to Wetlands	none nearby
Proximity to Riparian	none nearby
Other	good sheltered site, possible to improve bench for campsite

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>8/31</u>
Site Number:	<u>21</u>	Researcher:	<u>JD</u>
Photo	<u>25</u>		

Indicators	Notes
General Site Description	Narrow, but long site with 2 apparent tent pad areas
Built Features	Small dock, 1 large fire ring, 1 plywood and stump table, sign: welcome, please leave as you find
Bare Ground and Compaction	small medium area
Litter and Debris	clean
Sanitation Problems	none apparent
Erosion	very little (gentle slope)
Vegetation Damage	some damage to trees
Proximity to Wetlands	none
Proximity to Riparian	none
Other	trail behind site, "clean" feel, windy!, possible small beach, well up from shore via trail

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS**Lewis River Hydroelectric Projects**

Reservoir:	<u>Swift</u>	Date:	<u>8/31/00</u>
Site Number:	<u>22</u>	Researcher:	<u>JD</u>
Photo	<u>24</u>		

Indicators	Notes
General Site Description	hidden, well sheltered, dense understory
Built Features	1 fire ring
Bare Ground and Compaction	small-medium area, but still has duff layer, larger area of light use
Litter and Debris	none
Sanitation Problems	none
Erosion	none (steps built up to site: dirt)
Vegetation Damage	none
Proximity to Wetlands	none
Proximity to Riparian	none
Other	

SHORELINE DISPERSED SITE ECOLOGICAL CAPACITY INDICATORS

Lewis River Hydroelectric Projects

Reservoir: Swift Date: _____
Site Number: 23 Researcher: _____

Indicators	Notes
General Site Description	Site not accessible from water due to low pool, or from land due to surrounding private property
Built Features	
Bare Ground and Compaction	
Litter and Debris	
Sanitation Problems	
Erosion	
Vegetation Damage	
Proximity to Wetlands	
Proximity to Riparian	
Other	