APPENDIX A

List of Data Sources
List of Information Sources by Topic
May 19, 2010

Inventory GIS Map Folio Data Sources

City of Milton (obtained from Gray and Osborn Inc.)
- Aerial photograph (July 2009)
- Lakes, streams, wetlands
- City and UGA boundary
- Impervious surfaces (partially complete)
- Parcels
- Zoning
- Streets
- Stormwater
- Parks and other public access

Ecology (http://www.ecy.wa.gov/services/gis/data/data.html)
- Lakes
- Existing/suggested shoreline streams/rivers/lakes
- 2008 Washington Water Quality Assessment 303(d)

King County
- County boundary
- Parks and other public access

Pierce County
- County boundary
- Parks and other public access

WDFW:
- Priority habitats and species (April 8, 2010)

NOAA
- Coastal Change Analysis Program (CCAP) Regional Land Cover (vegetation)

USGS
- Impervious Surface

Natural Resources Conservation Service
**Additional Characterization Data Sources - Preliminary**

**Multi-Topic General Reference Materials**


**Critical Areas**


Washington Department of Fish and Wildlife. Salmonscape.  
http://wdfw.wa.gov/mapping/salmonscape/index.html


Floodplains and Channel Migration Zones


Pierce County. 2008. Pierce County Flood Risk Assessment. Pierce County Public Works and Utilities Water Programs Division.  
http://www.co.pierce.wa.us/pc/services/home/environ/water/ps/basinplans/floodriskassessment.htm

Historical or Archaeological Sites

DAHP records search by Consultant.

Washington Department of Archaeology & Historic Preservation.  
https://fortress.wa.gov/dahp/wisaard/

Confirmed and Suspected Contaminated Sites

U. S. Environmental Protection Agency  
http://yosemite.epa.gov/r10/cleanup.nsf/7d19cd587dff1eee8825685f007d56b7/38f05f6c02715e758256b1300631cb4?opendocument

Washington Department of Ecology.  
http://www.ecy.wa.gov/programs/tcp/sites/SiteLists_CSCSinstr.htm

Restoration Planning

City of Federal Way. Hylebos Creek Headwaters Restoration Project.  

N.O.A.A. Damage Assessment, Remediation, and Restoration Program  
http://www.darrp.noaa.gov/northwest/cbay/restore.html

N.O.A.A. Natural Resource Damage Assessment and Restoration  
http://www.cbrestitution.noaa.gov/hylebos_offchannel.html
Port of Tacoma. Lower Hylebos Creek Restoration
http://www.portoftacoma.com/hylebos-creek

http://wdfw.wa.gov/habitat/plannersguide/index.html


**Preliminary Data Gaps**

Topography, currently not available

Overwater structures (piers, docks, etc.), not available in digitized format

Shoreline armoring along Surprise Lake, not available in digitized format

Channel Migration Zone mapping

Sewer system, not yet attained from the Counties
APPENDIX B

Information Request Letter and Distribution List
April 6, 2010

RE: City of Milton Shoreline Inventory and Assessment, request for existing information: Surprise Lake and Hylebos Creek

Dear Stakeholders:

The City of Milton is in the early stages of examining its Surprise Lake and Hylebos Creek shorelines for the purposes of updating its Shoreline Master Program per requirements of the Washington State Department of Ecology. We have recently hired a consultant team to assist with shoreline characterization, analysis, and regulatory review. The products of the inventory/analysis include a map portfolio and a report characterizing ecological functions and ecosystem-wide processes, among other things.

The City is requesting your help in obtaining all relevant existing physical and biological information regarding this waterbody; the associated riparian and wetland areas; and other relevant watershed or basin information. We are interested in any and all inventories, assessments, water quality analyses, and/or fish and wildlife distribution and habitat information. A map identifying the City’s Shoreline is attached.

We are hoping to assemble our inventory by May 28, 2010 in order to complete the necessary characterization and analysis, and resultant recommendations, in a timely manner. A response would be appreciated by April 30, 2010. If possible, please provide hard copies or electronic files of any studies instead of a list of citations; contact the City if a copy fee is required. If you believe that another individual within your organization would be a more appropriate contact for this solicitation, please forward this letter to that individual, and notify us of the change in contact.

If you have any questions, would like to remain on the City’s mailing list for future notifications related to this project, or need additional information, please feel free to contact me at (253) 517-2715 or clarson@cityofmilton.net.

Sincerely,

Chris Larson, Planner 1
City of Milton
253-517-2715

Encl.
<table>
<thead>
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<th>Distribution List for City of Milton Shoreline Master Program Inventory</th>
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<td>Adopt-A-Stream</td>
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<td>American Rivers</td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>Futurewise</td>
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**Water and Land Resources Division**
Attn: Mary Maier, Basin Steward
201 S. Jackson Street, Suite 600
Seattle, WA 98104

**Mid Puget Sound Fisheries Enhancement Group**
APPENDIX C

Assessment of Shoreline Jurisdiction
April 8, 2010

Chris Larson  
City of Milton  
1000 Laurel Street  
Milton, WA 98354

Re: Ecology Comments in Response to the City of Milton’s Shoreline Master Program Grant Deliverables for Phase One.

Dear Mr. Larson,

Thank you for submitting the Phase One deliverables to the Department of Ecology (Ecology) in a timely manner. I reviewed the submitted deliverables for Phase One, of the Shoreline Master Program (SMP) Grant Agreement; this letter acts as Ecology’s comments in response to the Preliminary Shoreline Maps and Narrative, Public Participation Plan, and SMP Submittal Checklist.

Preliminary Shoreline Maps

The submitted maps do not include the entirety of regulated shoreline jurisdiction associated to Hylebos Creek. As mapped, the shoreline area terminates at the confluence of West Hylebos Creek and Hylebos Creek. Shoreline jurisdiction associated to this area should include the associated wetlands, mapped floodway, and contiguous floodplain plus two hundred feet in all directions, including the shorelands extending past the confluence of the two creeks according to 90.58.030(2)(f),

“Shorelands” or "shoreland areas" means those lands extending landward for two hundred feet in all directions as measured on a horizontal plane from the ordinary high water mark; floodways and contiguous floodplain areas landward two hundred feet from such floodways; and all wetlands and river deltas associated with the streams, lakes, and tidal waters which are subject to the provisions of this chapter; the same to be designated as to location by the Department of Ecology.”

In review of the suite of shoreline maps submitted to Ecology, the map should be edited to include the shorelines within 200 feet of the mapped floodway and contiguous floodplain, as well as the mapped wetland(s) associated to the confluence of the two streams.

Preliminary Shoreline Narrative

The submitted narrative identifies the City’s intent not to plan for shoreline jurisdiction within the City’s Urban Growth Areas. In review of the City’s Urban Growth Area Maps, there is a portion of Hylebos Creek located in this area. If annexed, the shoreline areas will continue to be regulated to Pierce County’s SMP and a SMP amendment will be required within one year according to WAC 173-26-150 thru 173-26-160. Although
discretionary, Ecology recommends that Milton utilize the allocated grant resources to plan in this area.

Public Participation Plan

The submitted Plan recognizes that key groups, affected tribes and agencies, as well as interested members of the public will be part of the outreach process, but does not specify who these groups, agencies, tribes and members of the public are. Please identify the specific groups, tribes, agencies, and members of the public to be notified.

The SMP Submittal Checklist

The submitted checklist meets the requirements as of Phase One of the Grant Process.

Thank you for the opportunity to comment on the Phase One deliverables. If you have questions or comments regarding this letter please contact me. I can be reached at (360) 407-7459, or by email at sarah.lukas@ecy.wa.gov.

Sincerely,

Sarah M. Lukas
Shoreline Planner

cc: Maria Pierce, City of Milton
25 March 2010

Chris Larson, Planner 1
City of Milton
1000 Laurel St.
Milton, WA 98354

Re: City of Milton Shoreline Jurisdiction Options

Dear Chris:

The Watershed Company has developed the attached proposed maps of shoreline jurisdiction, illustrating the proposed jurisdiction option and the additional full floodplain and wetland buffers options. Under the City’s current Shoreline Master Program (SMP), Surprise Lake is regulated as a shoreline. Existing shoreline jurisdiction includes the shorelands extending 200 feet from the ordinary high water mark and any associated wetlands, if identified. As part of the update to the City’s Shoreline Master Program, the City also plans to include and evaluate a portion of Hylebos Creek. The City does not plan to evaluate the Urban Growth Area (UGA), as the City does not plan to annex these areas in the future. All boundaries will be reviewed for consistency with Washington Department of Ecology (Ecology) guidelines.

PROPOSED JURISDICTON

The first step in updating the map of shoreline jurisdiction was to review the precise shoreline, floodway, and associated wetlands definitions found in the WAC and in Ecology rules and guidance documents. Portions of these definitions that apply to the City of Milton revolve around the flow thresholds for waterbodies meeting shoreline criteria, the two State floodway definitions, and when to consider critical areas (wetlands) as “associated” with the shoreline. The final illustration of the proposed shoreline jurisdiction is provided on the Proposed Shoreline Jurisdiction exhibit.

Lakes

The minimum size limit for lakes to be designated as shoreline is 20 acres. Thus, only Surprise Lake is identified as a shoreline jurisdictional lake. No other waterbodies within the City boundary exceed 20 acres.
Streams and Rivers

Ecology’s Digital Atlas was consulted to verify the upstream limits of stream and river shoreline jurisdiction based on USGS’s recent study of the 20 cubic feet per second (cfs) cut-off. Based on this information, Hylebos Creek has a mean annual flow greater than 20 cfs beginning near the confluence with West Hylebos Creek. Downstream from this point, Hylebos Creek flows along the City’s southwestern boundary.

No other waterbodies were indicated as having flows sufficient to meet shoreline criteria.

Shorelands

Floodplains/Floodways

The mapping of floodplains and floodways uses the latest information developed by Pierce County and King County and is in the final stages of review by FEMA. Hylebos Creek has a narrow floodway that extends roughly parallel to its ordinary high water mark along most of the stream channel (see Steps 1 and 2 of the Shoreline Jurisdiction Assembly exhibit). However, the floodway does not extend beyond 200 feet landward of the OHWM. As such, the shoreline jurisdiction is not extended beyond the standard 200 feet to include any floodways (see Step 2 of the Shoreline Jurisdiction Assembly exhibit).

Hylebos Creek is known to have a large floodplain (see Step 3 of the Shoreline Jurisdiction Assembly exhibit). Within the City of Milton and downstream of the 20 cfs point, this floodplain extends in an area south and west of Porter Road and east of Interstate 5. The floodplain of Hylebos Creek does not extend west of Interstate 5 until further downstream, outside of the City limits. Therefore, shoreline jurisdiction is not extended beyond the standard 200 feet to include areas of contiguous floodplain within City limits (see Step 3).

Associated Wetlands

Existing wetland inventory information, essentially what has been identified by Pierce County and Washington Department of Fish and Wildlife’s Priority Habitats and Species maps, was reviewed to identify associated wetlands (see Steps 4 and 5 of the Shoreline Jurisdiction Assembly exhibit). Ecology guidance states that the entire wetland is associated if any part of it lies within the area 200 feet from the OHWM (or floodway in riverine environments) of a state shoreline. Further guidance states that wetlands that are hydraulically connected to a Shoreline also would be considered associated, as well as wetlands within the 100-year floodplain. Wetlands that are separated by an obvious topographic break from the shoreline are not associated, provided they are outside the shoreland zone and provided that the break is not an artificial feature such as a berm or road.
Associated wetlands are identified in several areas along the jurisdictional boundary of Hylebos Creek (see Step 5 of the Shoreline Jurisdiction Assembly exhibit).

OTHER JURISDICTION OPTIONS

The information above describes assembly of the minimum shoreline jurisdiction. The City may further elect to expand jurisdiction to include 1) all or part of the 100-year floodplain, or 2) buffers of associated wetlands that would otherwise encompass areas outside of shoreline jurisdiction.

The 100-year floodplain option was assembled by combining the Proposed Shoreline Jurisdiction exhibit with additional floodplain areas shown on Step 3 of the Shoreline Jurisdiction Assembly exhibit. The resulting optional jurisdiction is illustrated on the Shoreline Jurisdiction Option 1 exhibit.

The wetland buffers option was assembled by combining the Proposed Shoreline Jurisdiction exhibit with buffers assigned to associated wetlands illustrated on Step 5 of the Shoreline Jurisdiction Assembly exhibit. Known wetlands within the City have not been individually rated using Ecology’s latest wetland rating system as required by the City’s critical areas regulations. According to the critical area regulations, possible buffers range from 40 to 300 feet. For illustration purposes only, these wetlands were assigned a 100-foot buffer (see Shoreline Jurisdiction Option 2 exhibit). Given the existing residential development in the area adjacent to the lone associated wetland located outside of the standard 200-foot shoreline jurisdiction and the anticipated inclusion of the City’s existing critical areas regulations (i.e. wetland buffers) into the SMP, it does not appear that inclusion of the buffers (Option 2) in shoreline jurisdiction would provide meaningful additional protection to the wetland and may unnecessarily increase the permit burden on the property owner.

Please call if you have any questions.

Sincerely,

Dan Nickel
Environmental Engineer

Enclosures

cc: MAKERS Architecture and Urban Design
APPENDIX D

Inventory and Analysis Map Folio
**FIGURE 4. IMPERVIOUS SURFACES**

**MAP LEGEND**

- PERCENT IMPERVIOUS*
  - 0
  - 1 - 20
  - 21 - 45
  - 46 - 65
  - 66 - 85
  - 86 - 100
- Shoreline Jurisdiction
- SMP Waterbodies
- SMP Streams
- Other Streams
- Roads
- City Boundary

* Percent impervious data comes from the USGS NLCD dataset, and was derived from 2001 satellite imagery.

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Data: USGS, City of Milton, TWC. December 13, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be required to confirm/verify information shown on this map.
FIGURE 5.
VEGETATION

MAP LEGEND
- Bare Land
- Cultivated
- Deciduous Forest
- Developed Open Space
- Evergreen Forest
- Grassland
- High Intensity Developed
- Low Intensity Developed
- Medium Intensity Developed
- Mixed Forest
- Palustrine Emergent Wetland
- Palustrine Forested Wetland
- Palustrine Scrub/Shrub Wetland
- Pasture/Hay
- Scrub/Shrub
- Unconsolidated Shore
- Water
- Shoreline Jurisdiction
- SMP Waterbodies
- SMP Streams
- Other Streams
- Roads
- City Boundary

Data: NOAA CCAP, City of Milton, TWC.
December 13, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm vegetation information shown on this map.
Figure 7. Natural Resources Conservation Service SSURGO Soils

Map Legend

NRCS SSURGO Soils
- Alderwood gravelly sandy loam, 0 to 6 percent slopes
- Alderwood gravelly sandy loam, 6 to 15 percent slopes
- Alderwood gravelly sandy loam, 15 to 30 percent slopes
- Ballingham silty clay loam - Hydric
- DuPont muck - Hydric
- Gravel Pit
- Indianola loamy sand, 0 to 6 percent slopes
- Indianola loamy sand, 6 to 15 percent slopes
- Indianola loamy sand, 15 to 30 percent slopes
- Kapowsin gravelly loam, 0 to 6 percent slopes
- Kapowsin gravelly loam, 6 to 15 percent slopes
- Kelso silt loam, 2 to 8 percent slopes
- Kelso silt loam, 8 to 15 percent slopes
- Kelso silt loam, 15 to 30 percent slopes
- Norma fine sandy loam
- Puyallup fine sandy loam
- Ragnar sandy loam, 0 to 6 percent slopes
- Semiahmoo muck - Hydric
- Shalcar muck - Hydric
- Sultan silt loam
- Tash silt
- Tushechop, 45 to 70 percent slopes
- Ballingham Silt Loam
- Everett Gravelly Sandy Loam, 0-5% Slopes
- Everett Gravelly Sandy Loam, 5-15% Slopes
- Indianola Loamy Fine Sand, 4-15% Slopes
- Seattle Muck - Hydric
- Tukwila Muck - Hydric
- Shoreline Jurisdiction
- BMP Waterbodies
- BMP Streams
- City Boundary

Data: NRCS, City of Milton, TWQ, December 13, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm/verify information shown on this map.
FIGURE 9.
FLOODPLAIN & FLOODWAY

MAP LEGEND
- Shoreline Jurisdiction
- County Floodplain
- County Floodway
- SMP Waterbodies
- SMP Streams
- Other Streams
- City Boundary

Data: Pierce County, City of Milton, TWC.
December 13, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm/review information shown on this map.
FIGURE 10. GEOLOGIC HAZARDS

MAP LEGEND
- Shoreline Jurisdiction
- Erosion Hazard
- Landslide Hazard
- Volcanic Hazard
- Seismic Hazard
- SMP Waterbodies
- SMP Streams
- Other Streams
- City Boundary

Data: Pierce County, King County, TWC. December 13, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm/verify information shown on this map.
FIGURE 11.
WDFW PRIORITY SPECIES & HABITATS

MAP LEGEND
- Fish Distribution, species include:
  Coho Salmon
  Fall Chinook
  Fall Chum
  Pink Salmon
  Winter Steelhead
- Bald Eagle Buffer
- Waterfowl Concentrations
- Urban Natural Open Space
- Priority Wetlands
- Shoreline Jurisdiction
- SMP Waterbodies
- SMP Streams
- Other Streams
- City Boundary

Data: WDFW, City of Milton, TWC, December 23, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm/verify information shown on this map.
FIGURE 12.
303d/305b IMPAIRED WATERBODIES

MAP LEGEND
- CAT 5 - Bioassessment;
- CAT 2 - Dissolved Oxygen
- CAT 5 - Fecal coliform
- CAT 5 - Copper,
- CAT 2 - Dissolved oxygen;
- CAT 2 - Fecal coliform
- Shoreline Jurisdiction
- SMP Waterbodies
- SMP Streams
- Other Streams
- City Boundary

Data: DOE,
City of Milton, TWC.
December 13, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm any information shown on this map.
FIGURE 13. SHORELINE MODIFICATIONS

MAP LEGEND
- Overwater Structures*
- Shoreline Armoring*
- Shoreline Jurisdiction
- SMP Waterbodies
- SMP Streams
- Other Streams
- City Boundary

* Features are estimated from County-wide aerial only. Data might not reflect current conditions and is intended for planning purposes only.

Data: City of Milton, TWC, December 13, 2010

All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm/verify information shown on this map.