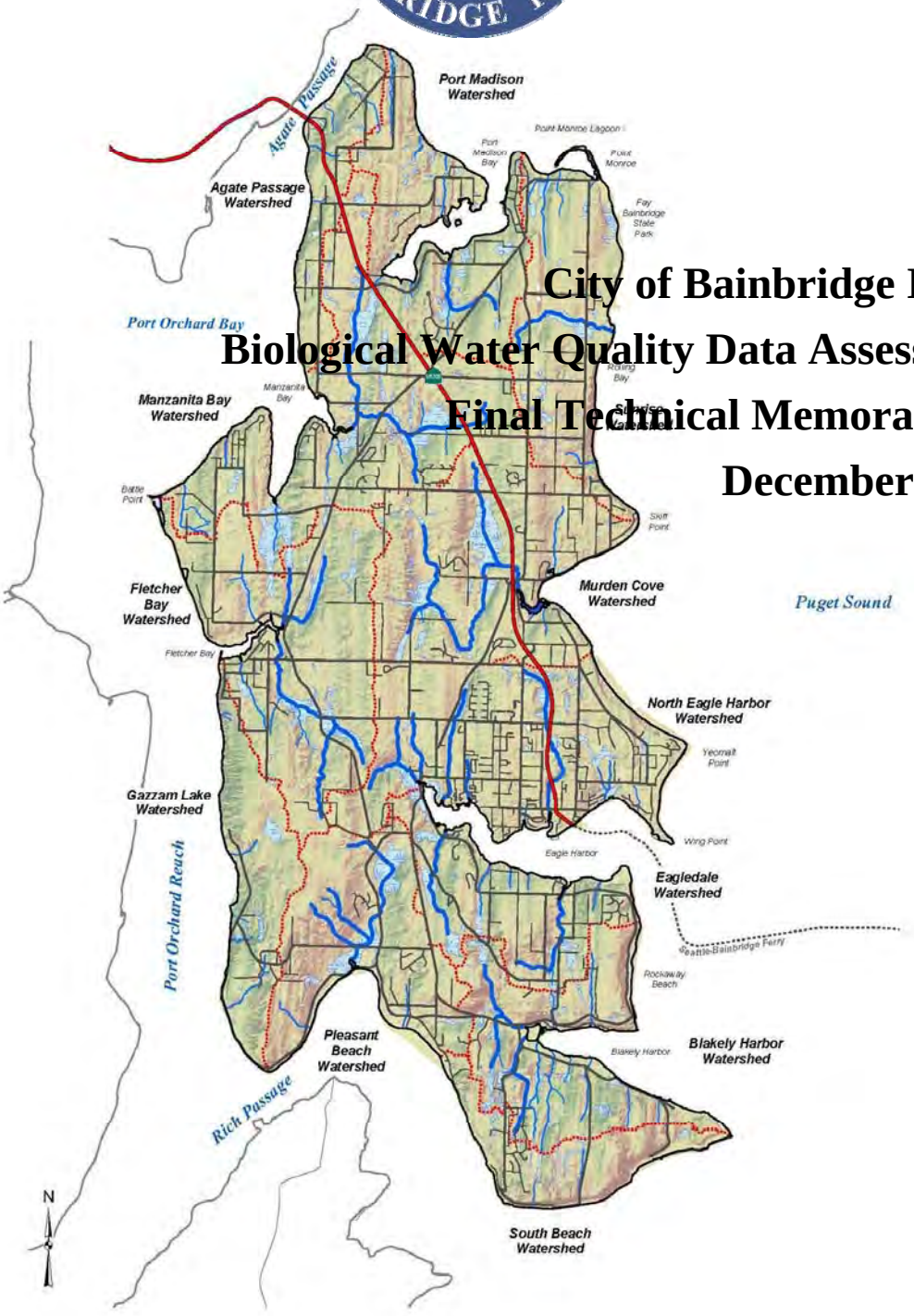
City of Bainbridge Island
Biological Water Quality Data Assessment
Final Technical Memorandum
December, 2008



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Technical Memorandum

City of Bainbridge Island

Biological Water Quality Data Assessment

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City of Bainbridge Island

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1.0 INTRODUCTION

This technical memorandum identifies freshwater and nearshore water quality data found within documents of the City of Bainbridge Island's (CoBI) library. Water quality data found within these documents have also been recognized as to whether or not the data should be included into the CoBI Water Quality and Flow Monitoring Program (WQFMP) database. This technical memorandum also identifies which water bodies (watersheds, freshwater locations, and nearshore areas) the water quality data originates. Furthermore, fish use data for individual streams and watersheds is compared to historical and current water quality data.

The City will be able to utilize this document to ascertain what freshwater and nearshore water quality data is available in the library index. CoBI will also be able to utilize this document to prioritize fish bearing watersheds/streams that are either lacking in water quality data or for use in identifying water bodies to continue future water quality monitoring.

2.0 METHODS

Each document within the CoBI library index was thoroughly examined for identifying what type, if any, of water quality data it contained. Water quality data was not extracted from the documents at this time. Table 1 (located at the end of the document text) identifies which documents contain data that is considered to be appropriate for inclusion into the WQFMP database. Table 1 also includes comments on each documents general contents and the associated waterbody or watershed that is the document's focus.

Water quality data for individual streams were designated as either freshwater or nearshore. Freshwater data were defined as information collected from in-stream, lake or other surface water locations. Nearshore data were defined as information collected from estuarine habitats (usually near the mouths of streams). Water quality data collected for watersheds and reported in a "general" fashion as a whole entity were classified as nearshore only due to the available data pertaining mainly to locales in marinas, harbors, and offshore areas. Table 2 (located at the end of the document text) presents this information.

Table 2 shows which streams, lakes, other surface water and watersheds locations contain current freshwater and/or nearshore water quality data collection locations. Historical

water quality data was also identified, for these same area types, by collection parameter (for example, temperature, dissolved oxygen, or turbidity) as well as time frame and locale in which the data were collected. Table 2 cross references back to the CoBI WQFMP Document Library index and indicates which documents that water quality data can be found for individual streams and watersheds.

Table 2 also shows which creeks have had Benthic Index of Biological Integrity (BIBI) studies conducted and the year these studies were completed. It also shows which streams are fish bearing and what types of fish have been documented at these locations.

3.0 RESULTS AND DISCUSSION

Table 2 was organized by individual watersheds on Bainbridge Island and the associated streams within each watershed. The following discusses the status of water quality data available for each watershed and associated streams. The condition of water quality data is also related to salmonid use within individual creeks.

3.1 NORTH EAGLE HARBOR WATERSHED

Ten creeks have been identified within the North Eagle Harbor watershed. Four of these creeks are fish bearing and three of which contain multiple salmonid species.

Ravine Creek has had nearshore water quality data collected over the past four years. It lacks historical freshwater water quality data. However, currently, freshwater and nearshore water quality data are being collected. BIBI data were collected for this creek in 2008. Ravine Creek contains multiple salmonid species (Coho and cutthroat) and should be prioritized to continue freshwater and nearshore water quality studies. It should also be included in future BIBI studies.

Madrone Creek is an underground stream system with stormwater input from the central Winslow town center core. Flows from Madrone Creek exit through the Lower Madison Brien Bjune (LMBB) Outfall. Madrone Creek has no historical freshwater or nearshore data available. Currently freshwater and nearshore data are being collected at this location. This creek has not had any BIBI studies conducted, mainly due to limited access because of underground flow. Although this stream lacks the presence of salmonids, due to its stormwater input to the receiving waters of Eagle Harbor this location should be considered a high priority for continued freshwater and nearshore water quality study. Weaver Creek has no historical in-stream or nearshore data available and does not have any current water quality stations. Furthermore, this stream has not had any BIBI studies

conducted. Cutthroat trout have been documented in Weaver Creek and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple fish species (other than cutthroat). However, confirming this stream does not have any other salmonid use would be prudent. If the presence of other salmonid species were confirmed, then water quality studies on Weaver Creek would be of higher priority.

Sportsman Club Creek has current freshwater and nearshore water quality data being collected. There is no historical data available for this stream and no BIBI studies have been conducted (mainly due to low water conditions). This stream contains multiple salmonid species (Coho and cutthroat) and should be prioritized to continue freshwater and nearshore water quality studies. It should also be included into any future BIBI studies.

Cooper Creek has had freshwater water quality data collected over the past 13 years and currently has freshwater data being collected. No historical nearshore water quality data has been collected and no current nearshore data is being collected for this creek. BIBI data has been collected in multiple years on this creek (2003 and 2008). Cooper Creek contains multiple species of salmonids (Coho and cutthroat) and should be prioritized to continue freshwater studies and start nearshore water quality data studies. There is currently a barrier blocking salmonid passage on Cooper Creek, and therefore water quality studies are of lowest priority on the tributaries (East and North Forks) until the blockage is addressed.

Hawley Creek and the tributaries to Hawley Creek lack salmonid presence and are of the lowest priority for water quality studies. However, these streams should be verified for the presence/absence of salmonids.

3.2 EAGLE DALE WATERSHED

Five streams have been identified within the Eagle Dale watershed. Three of these streams are fish bearing and none has multiple salmonid species.

Whiskey Creek has historical freshwater water quality data, which was taken in the late 1990's. There is no current water quality data being collected on this stream and no BIBI studies have been conducted. Cutthroat trout have been documented in Whiskey Creek and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple species (other than

cutthroat). However, confirming this stream does not have any other salmonid use would be prudent. If a confirmed presence of other salmonid species were found, then water quality studies on Whiskey Creek would be of higher priority.

Cougar Creek and Creosote Creek lack freshwater and nearshore water quality data. No BIBI studies have been conducted on either stream. Cutthroat trout have been found in both of these streams and this may indicate a potential for other salmonids to utilize these courses. Water quality studies for these streams are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, in the future, some attention should be paid to these streams, as no water quality data is available for either one.

McDonald Creek and Rose Creek lack salmonid presence and are of the lowest priority for water quality studies. However, these streams should be verified for the presence/absence of salmonids.

3.3 BLAKELY HARBOR WATERSHED

Seven streams have been identified in the Blakely Harbor watershed. Five of these streams are fish bearing, and three of which contain multiple salmonid species.

Blakely Falls Creek is lacking in historical freshwater and nearshore water quality data. There is no current water quality data being taken and no BIBI studies have been conducted. This stream contains multiple salmonid species (Coho and cutthroat) and should be of high priority to conduct freshwater and nearshore water quality studies. This stream should also be included into any future BIBI studies.

Mac's Dam Creek has historical freshwater water quality data, which was collected in 1992, 2002, and 2003. There is no historical nearshore data available for this stream. There is no current water quality data being taken and no BIBI studies have been conducted. This stream contains multiple salmonid species (Coho and cutthroat) and should be of high priority to conduct freshwater and nearshore water quality studies. This stream should also be included into any future BIBI studies.

Tani Creek is lacking freshwater water quality data, specifically temperature and dissolved oxygen. Some spotty freshwater data has been taken (in Aug 2004 and Sept 2005). There is no historical nearshore data and no current water quality data being taken. No BIBI studies have been conducted on Tani Creek. This stream contains multiple salmonid species (Coho and cutthroat) and should be of high priority to conduct

freshwater and nearshore water quality studies. This stream should also be included into any future BIBI studies.

Sunny Hill Creek and Toe Jam Hill Creek have very little to no historical freshwater or nearshore data available and do not have any current water quality stations. Furthermore, these streams have not had any BIBI studies conducted. Cutthroat trout have been documented in both streams and this may indicate a potential for other salmonids to utilize these courses. Water quality studies for these streams are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming these streams do not have any other salmonid use would be prudent. If confirmed presence of other salmonid species were found, then water quality studies on Sunny Hill and Toe Jam Hill Creeks would be of higher priority.

South Fork Mac's Dam Creek and Crane Lake Creek lack salmonid presence and are of the lowest priority for water quality studies. However, these streams should be verified for the presence/absence of salmonids.

3.4 SOUTH BEACH WATERSHED

One stream has been identified in the South Beach watershed (South Beach Creek). There is historical freshwater water quality data available for South Beach Creek. This stream does not have any documented salmonid use and is of the lowest priority for future water quality studies. This stream should be verified for presence/absence of salmonids.

3.5 PLEASANT BEACH WATERSHED

Five streams have been identified within the Pleasant Beach watershed. Two of these streams are fish bearing and one of which has multiple salmonid species.

Schel-Chelb Creek has historical freshwater and nearshore data available. There are also current freshwater and nearshore water quality data being collected. BIBI data was collected in 2003. This creek contains multiple salmonid species (Coho, Chum, and cutthroat). This stream is of highest priority to continue water quality studies due to the presence of three salmonid species. This creek should also be a high priority to include in future BIBI studies. There are currently barriers blocking salmonid passage to the Schel-Chelb Creek tributaries (Middle Fork and South Fork) and therefore water quality studies are of lowest priority on these tributaries until the blockages are fixed.

Point White Creek has no historical freshwater or nearshore data available and does not have any current water quality stations. Furthermore, this stream has not had any BIBI studies conducted. Cutthroat trout have been documented and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming this stream does not have any other salmonid use would be prudent. If confirmed presence of other salmonid species were found, then water quality studies on Point White Creek would be of higher priority.

Lytle Creek lacks salmonid presence and is of the lowest priority for water quality studies. However, this stream should be verified for presence/absence of salmonids.

3.6 GAZZAM LAKE WATERSHED

Three streams and one lake have been identified in the Gazzam Lake watershed. All three streams are fish bearing.

Linquist Creek and Crystal Springs Creek have no historical freshwater or nearshore data available and do not have any current water quality stations. Furthermore, these streams have not had any BIBI studies conducted. Cutthroat trout have been documented in both streams and this might indicate a potential for other salmonids to utilize these water courses. Water quality studies for these streams are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming these streams do not have any other salmonid use would be prudent. If confirmed presence of other salmonid species were found, then water quality studies on Linquist and Crystal Spring Creeks would be of higher priority.

Gazzam Lake Creek has historical freshwater water quality data available (mid 1990's). However, there is no historical nearshore water quality data available. There is also no current water quality data being taken. No BIBI studies have been conducted. Cutthroat trout have been documented and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming this stream does not have any other salmonid use would be prudent. Gazzam Lake Creek could be a unique system if fish have access to Gazzam Lake. If so, this system would be of highest priority for water quality studies.

Gazzam Lake has no historical freshwater water quality data available. It is currently utilized as a freshwater water quality station, as well as a lake water level monitoring location. A bathymetric survey and biological assessment of the lake are considered a low priority but may prove to be a worthwhile data collection set in the future.

3.7 FLETCHER BAY WATERSHED

Six streams have been identified in the Fletcher Bay watershed. Four of these streams are fish bearing, and two of which contain multiple salmonid species.

Fosters Creek has no historical freshwater or nearshore data available and does not have any current water quality stations. Furthermore, this stream has not had any BIBI studies conducted. Cutthroat trout have been documented and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming this stream does not have any other salmonid use would be prudent. If confirmed presence of other salmonid species were found, then water quality studies on Fosters Creek would be of higher priority.

Springbrook Creek has an excellent base of historical freshwater water quality data. No historical nearshore data is available; however, nearshore data is currently being collected. Freshwater water quality data is also currently being collected. BIBI data has been collected in multiple years for this creek (2003 and 2008). This stream contains multiple salmonid species (Coho, Chum, and cutthroat). There was also possible steelhead presence documented in 1982. This stream is of highest priority to continue water quality studies due to the presence of three and possibly four salmonid species. BIBI studies should be continued on this stream. There are currently numerous barriers blocking salmonid passage to the Springbrook Creek tributaries (South Fork and others) and therefore water quality studies are of lowest priority on these tributaries until the blockages are fixed.

Issei Creek has historical freshwater water quality data available, which was taken in 1998, 2002, and 2003. This stream does not have any historical nearshore data available, and no current freshwater or nearshore data is being collected. BIBI studies were completed for this stream in 2008. Issei Creek contains multiple salmonid species (Coho and cutthroat) and should be of high priority to conduct freshwater and nearshore water quality studies. BIBI studies should be continued on this stream. There are currently barriers blocking salmonid passage to the Issei Creek tributary (West Fork) and therefore

water quality studies are of lowest priority on these tributary until the blockages are fixed.

North Fletcher Bay Creek has historical freshwater water quality data available (mid to late 1990's). This stream does not have any historical nearshore data available. There is no current freshwater or nearshore data being taken, and no BIBI studies have been conducted. Cutthroat trout have been documented and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming this stream does not have any other salmonid use would be advised.

3.8 MANZANITA BAY WATERSHED

Six streams have been identified in the Manzanita Bay watershed. One of these streams is fish bearing and contains multiple salmonid species.

Manzanita Creek has an excellent base of historical freshwater water quality data. There is no historical nearshore data available for this stream. There is no current freshwater or nearshore water quality data being taken. BIBI studies have been conducted in multiple years for this stream (2003 and 2008). Manzanita Creek contains multiple salmonid species (Coho, Chum, and cutthroat) and should be of highest priority to conduct freshwater and nearshore water quality studies due to three salmonid species utilizing this stream. BIBI studies should be continued on this creek.

North Fork Manzanita Creek has some historical water quality data available, which was taken in June and July of 2003. However, neither this stream nor the South Fork Manzanita Creek have documented salmonid presence and therefore are of lowest priority for water quality studies. Both streams should be rechecked for salmonid presence.

Battle Point, Fairy Dell, and South Manzanita Creeks lack salmonid presence and are of the lowest priority for water quality studies. However, these streams should be verified for the presence/absence of salmonids.

The Manzanita Bay headland area is currently monitored at the outfall of the City's Operation and Maintenance (O&M) Facility retention ponds. There is no historic data from this location and current freshwater monitoring activities began in 2007. These ponds are receiving stormwater input from the O&M Facility as well as from runoff from

Highway 305. This outfall is an important ecological "check point" given its location at head of the Manzanita Bay Watershed. No salmonids are noted at this point in the watershed, however a wide range of bio-diversity exists here. This location also has the potential to affect the ecosystems downstream from the ponds outfall. Freshwater water quality activities are considered a high priority and should continue into the future.

3.9 AGATE PASSAGE WATERSHED

One stream has been identified in the Agate Passage watershed and lacks salmonid presence. Young Cedars Creek has historical freshwater data available, which was taken in the mid-1990s. However, this stream is of lowest priority for water quality studies, due to no documentation of salmonids. Young Cedars Creek should be verified for the presence/absence of salmonids.

3.10 PORT MADISON WATERSHED

Seven streams have been identified in the Port Madison watershed. Two of these streams are fish bearing, and one of which contains multiple species of salmonids.

Agate Pass Creek has no historical freshwater or nearshore data available and does not have any current water quality stations. Furthermore, this stream has not had any BIBI studies conducted. Cutthroat trout have been documented and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming this stream does not have any other salmonid use would be prudent. If confirmed presence of other salmonid species were found, then water quality studies on Agate Pass Creek would be of higher priority.

Coho Creek has a good base of historical freshwater water quality data. There is no historical nearshore data available for this stream. There is no current freshwater or nearshore water quality data being taken. No BIBI studies have been conducted on this stream. Coho Creek contains multiple salmonid species (Coho and cutthroat) and should be of high priority to conduct freshwater and nearshore water quality studies. BIBI studies should be included into any future water quality studies.

Oots-Aht-Ub, Nature Preserve, Tochhookwap, Hidden Cove Creeklet, and Hidden Cove Creeks lack salmonid presence and are of the lowest priority for water quality studies. However, these streams should be verified for the presence/absence of salmonids.

3.11 SUNRISE WATERSHED

Three streams have been identified within the Sunrise Watershed. One of these streams is fish bearing and contains only cutthroat.

Dripping Water Creek has historical freshwater water quality available (mid-1990s). There is no historical nearshore data available and no current freshwater or nearshore water quality data is being taken. No BIBI studies have been conducted on this stream. Cutthroat trout have been documented and this might indicate a potential for other salmonids to utilize this stream. Water quality studies for this stream are a low priority due to a lack of multiple salmonid species (other than cutthroat). However, confirming this stream does not have any other salmonid use would be prudent.

Heron and Rolling Bay Creeks lack salmonid presence and are of the lowest priority for water quality studies. However, these streams should be verified for presence/absence of salmonids.

3.12 MURDEN COVE WATERSHED

Five streams have been identified in the Murden Cove watershed. Three of these streams are fish bearing and all three contain multiple species of salmonids.

Meigs Creek has no historical freshwater or nearshore data available. There is no current freshwater data being taken. No nearshore water quality data is available as this stream is a tributary to Murden Creek. There have been no BIBI studies conducted on this stream. Meigs Creek contains multiple salmonid species (Coho and cutthroat) and should be of highest priority to conduct freshwater and nearshore water quality studies due to the lack of baseline information available and the presence of two salmonid species. BIBI studies should be conducted during any future water quality studies of this stream. There is a partial blockage on Murden Creek prior to Meigs Creek that should be addressed in order for salmonids to have full migratory access.

Woodward Creek has an excellent base of historical freshwater water quality data (1999 through 2004). No historical nearshore data has been taken as this creek is a tributary to Murden Creek. No current freshwater data is being taken. One BIBI study was conducted in 2001. Woodward Creek contains multiple species of salmonids (Coho and cutthroat) and should be a high priority to continue freshwater water quality studies. BIBI studies should be conducted during any future water quality studies of this stream. There is a

partial blockage on lower Woodward Creek that should be addressed in order for salmonids to have full migratory access.

Murden Creek has an excellent base of historical freshwater water quality data (1995 through 2003). Murden Creek lacks historical nearshore data; however, it has current freshwater and nearshore water quality data being collected. BIBI studies have been conducted in multiple years (2003 and 2008). Murden Creek contains multiple species of salmonids (Coho, Chum, and cutthroat) and should be of highest priority to continue freshwater and nearshore water quality studies. BIBI studies should be continued on this stream.

Manitou Beach Creek lacks salmonid presence and is of the lowest priority for water quality studies. However, this stream should be verified for the presence/absence of salmonids.

4.0 RECOMMENDATIONS

In this section, recommendations are made for whether or not data found within the COBI water quality library index should be included into the CoBI Water Quality and Flow Monitoring Program (WQFMP) database. Additionally, recommendations are provided for prioritizing additional studies for the COBI watersheds.

4.1 COBI WATER QUALITY LIBRARY INDEX

Documents within the CoBI WQFMP Library, as listed on the library index, contain water quality data that is recommended for inclusion into the CoBI WQFMP water quality database. These recommendations are listed on Table 1. Once the data is added to the database, it can be utilized for future analysis and determination of possible anthropogenic impacts to streams and watersheds on Bainbridge Island.

Three additional references/sources, CoBI Beach Seine Database, Puget Sound Naval Shipyard (PSNS) BIBI Data, and the US Navy's Project Environmental Investment (ENVVEST) data, not included in the CoBI library index contain water quality data that are also recommended for inclusion into the CoBI WQFMP water quality database. These additional references/sources are also included in Table 1.

First, the CoBI beach seining program has been taking water quality data at 11 core nearshore stations since 2003. Coordination with the beach seining program should be

done in order to obtain exact site locations and accurate up-to-date data for inclusion into the database.

Second, a PSNS BIBI Data Analysis conducted in 2003 contains BIBI scores from Schel-Chelb, Springbrook, Cooper, Murden, and Manzanita Creeks. Although, these scores do not include the metric scores needed for proper analysis, their resultant scores are available. Research into the origins of these studies is necessary in order to obtain all the necessary metric and BIBI scores for inclusion into the water quality database. This inclusion into the database will allow for comparisons over time for the streams that have multiple years' worth of BIBI studies.

Last, an ENVEST document dated 2004 contains nearshore and stormwater outfall water quality data at two stations along the South Beach Watershed. It is recommended that the City determine the exact site locations as well as how this data should be obtained. The data from this source could then be added into the CoBI water quality database. Furthermore, there may also be a vast array of applicable data in the Project ENVVEST database that would be of value to the City's WQFMP. It is recommended that the City contact the Navy's ENVVEST coordinator to discuss this further.

Gathering and analysis of all available and practicable sources of historical water quality data collected from freshwater and nearshore sites in and around Bainbridge Island is recommended. This will help the City's WQFMP determine which streams and watersheds are lacking in water quality analysis as well as which ones should be prioritized.

4.2 PRIORITIZING WATER QUALITY STUDIES

The North Eagle Harbor watershed should continue current water quality studies and remain a priority. Ravine, Sportsman's Club, and Cooper Creeks all contain multiple species of salmonids (Coho and cutthroat) and therefore water quality studies should continue on these streams. Based on stormwater input and potential impacts to receiving waters, freshwater and nearshore water quality data collection should remain a high priority for the City at Madrone Creek (LMBB Outfall).

The Eagle Dale watershed lacks salmonid use (other than cutthroat) across all streams. This watershed should be of lower priority for water quality studies. However, all streams within this watershed should be checked periodically for other salmonid species.

The Blakely Harbor watershed should be of high priority to conduct water quality studies. Blakely Falls, Mac's Dam, and Tani Creeks should be of highest priority within this watershed as they are lacking in water quality data. All of these streams contain multiple species of salmonids.

South Beach lacks salmonid use within its watershed and should be considered lowest priority for water quality studies. However, South Beach Creek should be checked periodically for salmonid use.

In general, streams within the Pleasant Beach watershed lack salmonid use (other than cutthroat). However, Schel-Chelb Creek does contain three species of salmonids (Chum, Coho, and cutthroat) and therefore this specific stream should be a high priority to continue water quality studies.

The Gazzam Lake watershed lacks salmonid use (other than cutthroat) across all streams. This watershed should be of lower priority for water quality studies. However, all streams within this watershed should be checked periodically for other salmonid species.

The Fletcher Bay watershed has several streams containing multiple species of salmonids and should be a high priority to conduct water quality studies. Attention should be paid to this entire watershed as streams have the potential to populate multiple species of salmonids (for example, Fosters Creek and North Fletcher Bay Creek). Issei Creek should be of high priority to continue water quality studies as it contains Coho salmon.

Springbrook Creek should be considered highest priority as it contains three species of salmonids (Coho, Chum, and cutthroat). It also is the only stream on Bainbridge Island to have a documented presence of steelhead. Springbrook Creek should be checked annually for salmonid presence to confirm the presence/absence of steelhead.

Streams within the Manzanita Bay watershed generally lack salmonid presence, except for Manzanita Creek, which contains Coho, Chum, and cutthroat. This specific stream within the Manzanita Bay watershed should be high priority for continuing water quality studies.

The Agate Passage watershed lacks salmonid presence within its one creek and is of low priority to conduct water quality studies. However, Young Cedars Creek should be checked periodically for the presence of salmonid species.

Streams within the Port Madison watershed generally lack salmonid presence, except for Coho Creek, which contains Coho and cutthroat. This particular stream within the Port Madison watershed should be high priority for continuing water quality studies.
The Sunrise watershed lacks salmonid presence (other than cutthroat in Dripping Water Creek) and is of low priority to conduct water quality studies. However, Heron Creek, Dripping Water Creek, and Rolling Bay Creek should all be checked periodically for salmonid presence.

The Murden Cove watershed has three streams that contain multiple species of salmonids. Meigs Creek contains Coho and cutthroat and lacks water quality studies outright. This stream should be a high priority to conduct water quality studies. Murden Creek should stay the course and remain a priority for water quality studies. The City should continue to stay in contact with the school district and obtain water quality data taken on Woodward Creek.

Overall, Blakely Harbor, Fletcher Cove, and Murden Cove watersheds should be of highest priority to conduct water quality studies. This is due to a general lack of water quality data in streams within these watersheds that contain multiple species of salmonids. Prioritizing streams from these areas for water quality studies will help assure water quality health in these watersheds. In turn, it will also help these watersheds to continue to support existing populations of salmonids and potentially allow other species of salmonids to populate streams on Bainbridge Island.

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
001	May, 1999	Inventory Evaluation and Alternatives for E. Bailey 6910 NE Day Rd, BI WA 98110	No	No freshwater or nearshore water quality data (Manzanita Creek)
002	1999	Resource Inventory Evaluation and Alternatives for Hutchison Property, 12364 Miller Rd, BI, WA 98110	No	No freshwater or nearshore water quality data (Manzanita Creek)
003	1995	ABC: Final Report, Eagle Harbor Clean Water Project	No	38 nearshore water quality samples taken and tested for fecals (Eagle Harbor), no exact locations listed, unusable unless sites are known
004	2000-2001	Woodward MS '00-'01 Murden Crk Stream Habitat Assessment Data	No	Stream habitat worksheets and maps, no freshwater or nearshore water quality data (Murden Creek)
005	2000-2001	Woodward MS '00-'01 Woodward Crk Water Quality data sheets and lab reports	Yes	Field sheets and data tables (pH, DO, temp, turbidity, fecals, TPH) (Woodward Creek)
006	2001-2002	Woodward MS '01-'02 WW Crk WQ & FC Data sheets	Yes	Field sheets and data tables (pH, DO, temp, turbidity, fecals, TPH) (Woodward Creek)
007	2002	Woodward MS '02-'03 Stream WQ Grps-Sum Tables	Yes	Summary tables and graphs (pH, temp, DO, turbidity, fecals) (Murden Cr, Mac's Dam Cr, Schel-Chelb (Edenharter), Springridge, Issei, Big Manzanita)
008	2002-2003	Woodward MS '02-'03 WW Crk WQ & FC-TPH Data	Yes	Field sheets and data tables (pH, DO, temp, turbidity, fecals, TPH) (Woodward Creek)
009	2003-2004	Woodward MS '03-'04 WQ Data Sheets & Summary	Yes	Field sheets and data tables (pH, DO, temp, turbidity, fecals, TPH) (Woodward Creek)
010	2004	Woodward MS '04 WQ Mon Day Bio Stuff	Yes?	One day worth of data (temp, turbidity, DO, pH) (Schel-Chelb/Edenharter)
011	2004	Woodward MS '04 WQ Mon Day Info	No	No freshwater or nearshore water quality data
012	2004	Woodward MS '04 WW Crk FC & TPH Data	Yes	TWISS Analytical lab results (Fecals, TPH) (Woodward Creek)

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
013	1998-2003	Woodward MS '98-'03 WW Crk WQ data Summary	Yes	Data summary report and tables (pH, DO, temp, turbidity, fecals) (Woodward Creek)
014	1998-2000	Woodward MS '98-'99 WW Crk WQ Data sheets	Yes	Field sheets and data tables (pH, DO, temp, turbidity) (Woodward Creek)
015	2002	Woodward MS Riparian Zone Info Sheets_2002	No	No freshwater or nearshore water quality data (Woodward Creek)
016	2004	Watershed Watch Article 2004 & Misc. Info	No	No freshwater or nearshore water quality data (Woodward Creek)
017	2003-2004	Environmental Education Partnerships Program Aug2003-Aug2004	No	No new freshwater or nearshore water quality data, from previous documents (Woodward Creek)
018	2002	Report to the CoBI Environmental ED. Partnerships Program Jan to Aug 2002	Yes	No new freshwater or nearshore water quality data, from previous documents (Woodward Creek) BIBI data from Oct 1 should be included into database
019	2000-2001	00-'01 Stream Monitoring Data	Yes	Tabular form of Woodward Creek water quality data from previous documents. Possibly good spot to gather all data to include into database.
020	2001-2002	01-'02 Stream Monitoring Data	Yes	Tabular form of Woodward Creek water quality data from previous documents. Possibly good spot to gather all data to include into database.
021	2002-2003	02-'03 Stream Monitoring Data	Yes	Tabular form of Woodward Creek water quality data from previous documents. Possibly good spot to gather all data to include into database.
022	2003-2004	03-'04 Stream Monitoring Data	Yes	Tabular form of Woodward Creek water quality data from previous documents. Possibly good spot to gather all data to include into database.

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
023	2000-2004	Master Data 00-04	No	Summary of Woodward Creek water quality data
024	2003	Azalea Stormwater Catch Basin 2003	Yes	One day sample of pesticides in Hawley Creek.
025	2003	BI Stream Water Chemistry Survey (Clairborne)_2003	Yes	Water quality data (pH, DO, conductivity, temp, salinity) from N.Manzanita Cr, Manzanita Cr, Coho Cr, Issei Cr, Springbrook, Cooper, Mac's Dam Cr. 6/03 to 7/03
026	1998-1999	BI WS WQ Data 1998-1999	Yes	Good water quality data (pH, DO, temp) from Fletcher Bay, Manzanita, and Murden Cove Watersheds, also Whiskey Cr and Schel-Chelb Cr. CoBI needs to spend time on determining exact locations of stations prior to inclusion into database
027	2000	K&W_Level_II_Assess_Dec2000	No	No freshwater or nearshore water quality data
028	2005	BAS Stream Riparian Areas 10-24-05	No	No freshwater or nearshore water quality data
029	1998-2000	BI Stream WQ Monitoring Data 1998-2000	No	Same data as (026)
030	2004	BI_Nearshore Assessment Rpt_2004	No	No freshwater or nearshore water quality data
031	2003	Nearshore_StrINV_2003	No	No freshwater or nearshore water quality data
032	2004	Summit at Blakely Harbor Aug 04 Smpl Rpt	Yes	Two surface water samples (pH, turbidity, metals) for Tani Creek, Aug 2004
033	2005	Summit at Blakely Harbor Sep 05 Smpl Rpt	Yes	Two surface water samples (pH, turbidity, metals) for Tani Creek, Sept 2005

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
034	1997-1998	Fletcher Bay Watershed Maps, field sheets, & Tables 1997-1998	Yes	Water quality data (pH, DO, temp, fecals) for Springbrook Cr, N.Fletcher Bay Cr, Issei Cr.
035	1998	Fletcher Bay Part2_1998	Yes	Data continued from (034)
036	1998	Manzanita Watershed Field Sheets & Excel Tables 1998	Yes	Water quality data (pH, DO, temp) for Manzanita Creek
037	1998	Manzanita Watershed Part 2_1998	Yes	Data continued from (036)
038	1998-1999	MZBY Restoration Project Articles_1998-1999	No	No freshwater or nearshore water quality data
039	1999	MZBY Restoration Project Evaluation_1999	No	No freshwater or nearshore water quality data
040	1999	MZBY Restoration Project Summary_1999	No	No freshwater or nearshore water quality data
041	1999	MZBY Restoration Publicity _1999	No	No freshwater or nearshore water quality data
042	1998	MZBY Restoration Training Material	No	No freshwater or nearshore water quality data
043	1999	MZBY Restoration Stream Naming_1999	No	No freshwater or nearshore water quality data
044	1999	MZBY Restoration Watershed Tour_1999	No	No freshwater or nearshore water quality data
045	1998	Schel-Chelb Estuary Fieldsheets&Excel Table_1998	Yes	Water quality for freshwater and nearshore sites (pH, temp, DO). Sites need to be exactly located to be entered into database.
046	2003	Eagle Harbor Mooring Water Parameters June 24th, 2003	Yes	Nearshore water quality data (pH, DO, turbidity, TDS, fecals) in Eagle Harbor

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
047	2003	Eagle Harbor Mooring Water Parameters July 13th, 2003	Yes	Nearshore water quality data (pH, DO, turbidity, TDS, fecals) in Eagle Harbor
048	2003	Eagle Harbor Mooring Water Parameters October 8, 2003	Yes	Nearshore water quality data (pH, DO, turbidity, TDS, fecals) in Eagle Harbor
049	1997-1998	Head of Bay, Eagle Harbor Field Data Sheets & Excel Sheets_1997-98	Yes	Water quality data (pH, temp, DO) for Cooper Creek. Nearshore water quality data (pH, temp, DO) for Head of Bay Eagle Harbor. Exact site locations need to be determined prior to inclusion in database
050	1997-2000	Murden Cove Field Sheets, Benthic Monitoring Sites & Spreadsheets_97-2000	Yes	Water quality data (pH, temp, DO) for Murden Creek. Some for Manzanita Creek. Some nearshore water quality data as well. Exact location of sites need to be determine prior to inclusion in database.
051	1997-1999	Taylor Creek Tables, Field Sheets, Maps _1997-'99	Yes	Water quality data (pH, temp, DO) for Whiskey Creek (Taylor)
052	1992	KC_Boat_Waste_1992	Yes	Nearshore water quality data (fecals) for Eagle Harbor Marina.
053	1995	BI_Non-Point_WP 1995	No	No freshwater or nearshore water quality data
054	1995	BI_Non-Point_RPT 1995	Yes	Water quality data (pH, temp, DO, conductivity, TSS, turbidity, fecals) in S.Beach Cr, Whiskey Cr, Cooper Cr, Gazzam Lake Cr, Springbrook Cr, N.Fletcher Bay Cr, Murden Cr, Manzanita Cr, Dripping Water Cr, Oots-Aht-Ub Cr, Young Cedars Cr.

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
055	1997	BI_Non-Point_RPT 1997	Yes	Water quality data (pH, temp, DO, conductivity, TSS, turbidity, fecals) in S.Beach Cr, Whiskey Cr, Cooper Cr, Gazzam Lake Cr, Springbrook Cr, N.Fletcher Bay Cr, Murden Cr, Manzanita Cr, Dripping Water Cr, Oots-Aht-Ub Cr, Young Cedars Cr.
056	1998	Brem-KC HD_WQ_RPT_1998	No	Some fecal data collected from Agate Pass, does not need be included in database
057	1999	Brem-KC HD CoBI 2000 SOW 1999	No	No freshwater or nearshore water quality data
058	1996-1999	BI_Watershed Monitoring Project_1996-1999	No	Same stations as (054), likely same data in tabular form April 95-Dec 96
059	1983-2001	KCHD BI Docs	No	No freshwater or nearshore water quality data
060	2003-2005	Agate Passage Marine Water Quality_2003-2005	Yes	Nearshore water quality (temp, salinity, fecals) from Agate Pass
061	2002	Agate Passage Map_2002	No	No freshwater or nearshore water quality data
062	1997	Kitsap Basin 1997	No	No freshwater or nearshore water quality data
063	2005	WADOE Water Resources WRIA 15 Index	No	No freshwater or nearshore water quality data
064	2000	Sed Qual in Puget Sound_2000	Yes?	Sediment quality data in Eagle Harbor, CoBI decision to include into database
065	2003	Trainer_PSP_2003final (Paralytic Shellfish Toxins in Puget Sound)	No	No freshwater or nearshore water quality data
066	2004	Biomonitoring Scores_2004	No	No freshwater or nearshore water quality data

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Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
067	1997-2000	Stream Team Analytical results 1997-2000	Yes	same data as (026)
068	1993	Beak_Hidden Cove Property_Winter_1992	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
069	1994	Beak_Hidden Cove_1994-Winter '93	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
070	1995	Entranco_Hidden Cove Estates_1996	No	No freshwater or nearshore water quality data
071	1992	Hidden_Cove_Summer1992	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
072	1995	Triad Associates_Hidden Cove Post Construction1995	No	No freshwater or nearshore water quality data
073	1996	Beak_Hidden Cove_1996	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
074	1996-2000	AES Inc_Hidden Cove 1996-2000	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
075	2001	AC Kindig&Co_Hidden Cove_May 2001	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
076	2001	AC Kindig&Co_Hidden Cove_September 2001	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
077	2000	CoBI Hidden Cove Hydrograph_2000	No	No freshwater or nearshore water quality data

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Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
078	1990	Aquatic_Resources_PT_Blakely_Oct1990	Yes	Nearshore water quality data (pH, DO, temp, salinity) for nearshore areas in Blakely Harbor)
079	1992	Water_Quality_Report_PT_Blakely_Mar 1992	Yes	Water quality data (fecal, metals) for Blakely Falls Cr, Mac's Dam Cr, Crave Lake Cr, and Toe Jam Hill Cr.
080	1993-2000	Meigs Farm Deep Well Static Water Levels 1993-2000	No	No freshwater or nearshore water quality data
081	1993-2003	Monthly Precipitation at Green Spot Place 1993-2003	No	No freshwater or nearshore water quality data
082	1992	Wyckoff_1992	No	No freshwater or nearshore water quality data
083	2002	App A of Wyckoff 5-Yr Review	No	No freshwater or nearshore water quality data
084	2000	Wyckoff_Eagle_Harbor_EPA_Report_Sep2000	No	No freshwater or nearshore water quality data
085	2002	5 Yr Rev_Wyckoff2002	No	No freshwater or nearshore water quality data
086	2003-2004	PSAMP Puget Sound Submerged Vegetation Monitoring Report 2003-2004	No	No freshwater or nearshore water quality data
087	1998	Schel-Chelb Estuary 1998	Yes?	Nearshore water quality data (temp, salinity) for Schel-Chelb Estuary. Exact site location must be identified before inclusion in database.
088	2000	EH_Eelgrass_Restoration_2000	No	No freshwater or nearshore water quality data
089	2001	Schel-Chelb Estuary 2001 Annual Report	No	No freshwater or nearshore water quality data, benthic macro-invertebrate study

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Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
090	2004	Schel-Chelb Estuary 2003	No	No freshwater or nearshore water quality data
091	1989-2005	Port Blakely Marine Water Quality_1989-2005	Yes	Nearshore water quality data (temp, salinity, fecals) for Port Blakely
092	1993	Sanitary Survey of Port Blakely 1993	No	No freshwater or nearshore water quality data
093	1994-1999	Port Blakely Water Quality Data 1994-1999	Yes	Same data as (091)
094	2005	Port Blakely Map 2005	No	No freshwater or nearshore water quality data
095	1996-1999	Port Orchard Passage Water Quality Data 1996-1999	Yes	Nearshore ambient water quality data (temp, salinity, fecals) for South Beach, Pleasant Beach, Gazzam Lake, and Fletcher Bay Watershed Shorelines
096	1994-2005	Port Orchard Marine Water Quality_1994-2005	Yes	Nearshore ambient water quality data (temp, salinity, fecals) for Agate Passage, Manzanita, Fletcher Bay Watershed Shorelines
097	2005	Port Orchard Passage Map_2005	No	No freshwater or nearshore water quality data
098	2005	Port Orchard Passage Map2_2005	No	No freshwater or nearshore water quality data
099	1988	Kitsap_County_Eagle_Harbor_1988	Yes	Nearshore water quality data (fecals) for Eagle Harbor
100	2005	Eagle Harbor WQ Survey Results_2005	Yes	Nearshore water quality data (fecals) for Eagle Harbor

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
101	2005	Eagle_Harbor_Marina_Map_2005	No	No freshwater or nearshore water quality data
102	1989-2005	Port Madison Marine Water Quality_1989-2005	Yes	Nearshore water quality data (temp, salinity, fecals) for Port Madison
103	1993	Sanitary Survey of Port Madison 1993	No	No freshwater or nearshore water quality data
104	1994-1999	Port Madison Water Quality Data 1994-1999	Yes	Same data as (102)
105	2005	Port Madison Map_2005	No	No freshwater or nearshore water quality data
106	2005	Port Madison Marine Station Coordinates	No	No freshwater or nearshore water quality data
107	1991-1999	Fecal Coliform COCs,Lab Data, Invoices,etc_1991-1999	Yes	Nearshore water quality data (fecals) for Winslow Marina, Eagle Harbor
108	2005	Year 7(2004) 4th Quarter Data Rpt&Annual Summary	Yes	Nearshore water quality data (pH, DO, temp, conductivity, salinity, turbidity, TSS, metals) for Ravine Creek estuary area
109	2005	Year 8 (2005) 2nd Quarter Data Rpt	Yes	Nearshore water quality data (pH, DO, temp, conductivity, salinity, turbidity, TSS, metals) for Ravine Creek estuary area
110	2004	State of our Watersheds Report	No	No freshwater or nearshore water quality data
111	1997	BI Watershed Action Plan	No	No freshwater or nearshore water quality data
112	1997-1998	Long-term Marine water quality data_1997-1998	Yes	Nearshore water quality data (salinity, temp, DO, pH) for Eagle Harbor sites

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Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
113	1993	Hidden Cove_Summer1993	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
114	1997-2001	Hidden Cove_Results_1997-2001	Yes	Water quality data (pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals) for Coho Creek
115	2004	CoBI DL WA Bch Mon Prg	Yes	Nearshore water quality data (fecals) for Fay Bainbridge State Park and Eagle Harbor Waterfront Park (Excel spreadsheet)
116	2004	CoBI DL EIM TSP Data	No	No freshwater or nearshore water quality data
117	1989-2002	CoBI DL SEDQUAL Database	Yes	Nearshore and marine sediment sampling data from sites within Eagle Harbor.
118	2002-2005	Project ENVVEST Data 2002-2005	Yes	Database download from the Project ENVVEST records. Contains land site info for Springbrook Creek and various nearshore and marine sites. CoBI needs to decide how to approach converting data for use in database.
119	Oct, 2003	Bainbridge Is Nearshore Assessment Summary of Best Available Science	No	No freshwater or nearshore water quality data. Good discussion of pollutant sources on Bainbridge Island on VI-21
120	NA	CoBI WQFMP Guidance Documents	No	No freshwater or nearshore water quality data
Currently not in library index *	NA	Bainbridge Island Beach Seining Database	Yes	Nearshore water quality data (DO, temp, salinity, secchi depth) taken for 11 core sites surrounding Bainbridge Island (2003-2004). Exact location of sites needs to be determined before inclusion into database. This entry not included or

Table 1. CoBI WQFMP Water Quality Library Index Amended for Bio-Data Assessment

Document No.	Document Date	Document Title	Data to Include in CoBI Database?	Comments
				referenced in Table 2 of this document.
Currently not in library index **	2004	PSNS BIBI Data Analysis	Yes	BIBI scores from Schel-Chelb, Springbrook, Cooper, Murden, and Manzanita Creeks (2003)
Currently not in library index ***	2004	A Summary of Landuse, Landcover, Stream Flow, and Water Quality Data for Watersheds of Streams, Piped Catchments, Open Watersheds, and Nearshore Areas Draining into Sinclair and Dyes Inlets - Section 3. Nearshore Areas	Yes	Nearshore and stormwater outfall water quality data (pH, temp, turbidity, conductivity, fecals) at two stations along South Beach Watershed (ENVVEST) (Nov-Dec 2002)

*,**,*** Reference to Table 2.

Table 2. Status of water quality data for watersheds and creeks on Bainbridge Island.

Watershed / Stream	Current Freshwater Water Quality, Sediment, Fecal Stations	Current Nearshore Water Quality, Sediment, Fecal Stations	Historical Freshwater Water Quality Data Available	Years	Historical Nearshore Water Quality Data Available	Years	BIBI/Year	Fish Use	CoBI Ref Doc # (Historical WQ)
North Eagle Harbor Watershed					pH, DO, turbidity, salinity, TDS, fecals	1988, 1991, 1997-1998, 6/03, 7/03, 10/03, 2004-2005			46-48, 50, 99, 100, 112, 115
East Fork Hawley Creek									
West Fork Hawley Creek									
Hawley Creek			pesticides	1 day sample 2003					24
Ravine Creek	X	X			pH, DO, temp, conductivity, salinity, turbidity, TSS, metals	2004, 2005	2008	Coho, Cutthroat	108, 109
Madrone Creek	X	X							
Weaver Creek								Cutthroat	
Sportsman's Club Creek	X	X						Coho, Cutthroat	
East Fork Cooper Creek									
North Fork Cooper Creek									
Cooper Creek	X		pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/95), 97-98, June/July 2003			2003, 2008	Coho, Cutthroat	25, 49, 54, 55, 58, **
Eagledale Watershed					pH, DO, turbidity, salinity, TDS, fecals	1988, 1991, 1997-1998, 6/03, 7/03, 10/03, 2004-2005			46-48, 50, 99, 100, 112, 115
Cougar Creek								Cutthroat	
McDonald Creek									
Rose Creek									

Table 2. Status of water quality data for watersheds and creeks on Bainbridge Island.

Watershed / Stream	Current Freshwater Water Quality, Sediment, Fecal Stations	Current Nearshore Water Quality, Sediment, Fecal Stations	Historical Freshwater Water Quality Data Available	Years	Historical Nearshore Water Quality Data Available	Years	BIBI/Year	Fish Use	CoBI Ref Doc # (Historical WQ)
Whiskey Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 12/97 to 2/99				Cutthroat	26, 51, 54, 55, 58, 67
Creosote Creek								Cutthroat	
Blakely Harbor Watershed					pH, DO, salinity, temp, fecals	1989-2005			78, 91, 93
Blakely Falls Creek			metals, fecal	1992				Coho, Cutthroat	79
South Fork Mac's Dam Creek									
Mac's Dam Creek			pH, DO, turbidity, temp, fecals, TPH, conductivity, salinity, metals	1992, 2002-2003				Coho, Cutthroat	7, 25, 79
Tani Creek			turbidity, pH, fecal, metals	Aug 04, Sept 05				Coho, Cutthroat	32, 33
Sunny Hill Creek								Cutthroat	
Crane Lake Creek			metals, fecal	1992					79
Toe Jam Hill Creek			metals, fecal	1992				Cutthroat	79
South Beach Watershed					temp, salinity, fecals, conductivity, turbidity	1996-1999, Nov-Dec 2002			95, ***
South Beach Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 1997					54, 55, 58
Pleasant Beach Watershed					temp, salinity, fecals	1996-1999			95
Lytle Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, 1997					54

Table 2. Status of water quality data for watersheds and creeks on Bainbridge Island.

Watershed / Stream	Current Freshwater Water Quality, Sediment, Fecal Stations	Current Nearshore Water Quality, Sediment, Fecal Stations	Historical Freshwater Water Quality Data Available	Years	Historical Nearshore Water Quality Data Available	Years	BIBI/Year	Fish Use	CoBI Ref Doc # (Historical WQ)
Schel-Chelb Creek	X	X	pH, DO, turbidity, temp, fecals, TPH	1998, 2002-2003, 1 day in 2004	pH, temp, DO	1998	2003	Coho, Chum, Cutthroat	7, 10, 26, 45, 67, **
Middle Fork Schel-Chelb Creek									
South Fork Schel-Chelb Creek									
Point White Creek								Cutthroat	
Gazzam Lake Watershed					temp, salinity, fecals	1996-1999			95
Linquist Creek								Cutthroat	
Crystal Springs Creek								Cutthroat	
Gazzam Lake Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 1997				Cutthroat	54, 55, 58
Gazzam Lake	X								
Fletcher Bay Watershed					fecals, temp, salinity	1994-2005			95, 96
Foster's Creek								Cutthroat	
South Fork Springbrook Creek									
Springbrook Creek	X	X	pH, DO, turbidity, temp, fecals, TPH, conductivity, salinity	1995, data means (4/95 to 12/96), 1997, 1998, 2002-2003			2003, 2008	Coho, Chum, Cutthroat, Steelhead? (1982)	7, 25, 26, 34, 35, 54, 55, 58, 67, **
Issei Creek			pH, DO, turbidity, temp, fecals, TPH, conductivity, salinity	1998, 2002-2003			2008	Coho, Cutthroat	7, 25, 34, 35
West Fork Issei Creek									

Table 2. Status of water quality data for watersheds and creeks on Bainbridge Island.

Watershed / Stream	Current Freshwater Water Quality, Sediment, Fecal Stations	Current Nearshore Water Quality, Sediment, Fecal Stations	Historical Freshwater Water Quality Data Available	Years	Historical Nearshore Water Quality Data Available	Years	BIBI/Year	Fish Use	CoBI Ref Doc # (Historical WQ)
North Fletcher Bay Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 1997, 12/97 to 2/99				Cutthroat	34, 35, 54, 55, 58
Manzanita Bay Watershed					fecals, temp, salinity	1994-2005			96
Battle Point Creek									
Fairy Dell Creek									
South Manzanita Creek									
South Fork Manzanita Creek									
Manzanita Creek			pH, DO, turbidity, temp, fecals, TPH, conductivity, salinity	1995, data means (4/95 to 12/96), 1997, 12/97 to 2/99, 2002-2003			2003, 2008	Coho, Chum, Cutthroat	7, 25, 26, 36, 37, 50, 54, 55, 58, 67, **
North Fork Manzanita Creek			pH, DO, conductivity, temp, salinity	June/July 2003					25
Manzanita Watershed Headland Area (CoBI O&M Facility Retention Ponds)	X								
Agate Passage Watershed					fecals, temp, salinity	1994-2005			60, 96
Young Cedars Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 1997					54, 55, 58
Port Madison Watershed					fecal, temp, salinity	1989-2005			102, 104
Agate Pass Creek								Cutthroat	
Oots-Aht-Ub Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 1997					54, 55, 58
Nature Preserve Creek									

Table 2. Status of water quality data for watersheds and creeks on Bainbridge Island.

Watershed / Stream	Current Freshwater Water Quality, Sediment, Fecal Stations	Current Nearshore Water Quality, Sediment, Fecal Stations	Historical Freshwater Water Quality Data Available	Years	Historical Nearshore Water Quality Data Available	Years	BIBI/Year	Fish Use	CoBI Ref Doc # (Historical WQ)
Tochhookwap Creek									
Hidden Cove Creeklet									
Hidden Cove Creek									
Coho Creek			pH, DO, conductivity, temp, salinity, turbidity, TDS, TSS, metals, fecals	1992-1994, 1996-2001, June/July 2003				Coho, Cutthroat	25, 68-76, 113, 114
Sunrise Watershed					fecal, temp, salinity	1989-2005			102, 115
Heron Creek									
Dripping Water Creek			pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 1997				Cutthroat	54, 55, 58
Rolling Bay Creek									
Murden Cove Watershed					fecal, temp, salinity	1989-2005			50
Manitou Beach Creek									
Meigs Creek								Coho, Cutthroat	
Middle Fork Woodward Creek									
Woodward Creek			pH, DO, turbidity, temp, fecals, TPH	1999-2004			2001	Coho, Cutthroat	5, 6, 8, 9, 12, 13, 14, 18, 19-23
Murden Creek	X	X	pH, temp, DO, conductivity, TSS, flow, turbidity, fecals	1995, data means (4/95 to 12/96), 1997-2000, 2002-2003			2003, 2008	Coho, Chum, Cutthroat	7, 26, 50, 54, 55, 58, 67, **

*,**,*** (Refers back to Table 1 of this document)

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