**Upper Nehalem Project – Archival Record of Data and Map Products**

**(Project period winter 2011 through winter 2012)**

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**J:\Watershed\_projects\Nehalem Folder Contents – Brandon Snook Initial Work on GIS, RBA and Rock Creek LFA**

**Winter-Spring Terms 2011**

*Compiled by review from Bill Vreeland, Jan. 26, 2012; and follow-up by Brandon Feb. 2, 2012*

**\2009\_RBA\_Data\_tables**

Excel Rapid bio assessment data tables original 2008, 2009

* LLID’s are not copied into each row, complicates issues when setting up routes and further tables down the line.

**\Brandons\_LLID\_tables**

Brandons Excel routing and data tables with tests and intermediate results

* “Routing\_Tables” folder provides best excel table for use in setting up routes, “Rock\_Creek” folder then provides updated tables for routing just within the rock creek sub-basin.

**\cropped\_DRGs\_aug19\_2010**

Digital raster graphics NAD 27 10N clipped color

**\cropped\_DRGs\_bw\_aug19\_2010**

Digital raster graphics NAD 27 10N clipped black and white

**\DOQ's**

Digital ortho quads.

* Were not used as of yet in any analysis.

**\geology\_clip\_data\_aug25\_2010**

Statewide Geology layer with two clipped subsets

* Rectangle clip around Nehalem watershed
* Watershed boundary clip

**\GIS\_map\_quad\_data**

Miscellaneous endpoints with inconsistent spatial reference information as well as streams and quad OR24 quad shapefile

* DRG and DEM folders contain downloaded data from internet source, most likely from U of O database.
* “RBA\_end\_pts…” shapefiles are the bowties digitized from the selected field map quads. These maps located in WOU NS 218.
* “nehalem\_rba\_bow\_ties” shapefile is all the end points merged together for the watershed.

**\Huc\_6\_rock**

Core folder of Brandon’s work with maps and shapefiles on Rock Creek

* **\COHO\_density\_package** was meant to be a folder with relevant shapefiles that could be sent to watershed council people
	+ **\Rock\_drg** contains drg of rock creek.
	+ “hillshade” , clipped rectangle of rock creek with a hillshade raster.
	+ “Nehalem\_watershed\_clip”, “rock\_ck\_huc6\_tribs”, and “rock\_creek\_6\_hucs” are relevant shapefiles used in rock creek fish count maps.
* **\Dot\_maps -** folder consists of three map docs of coho, cut, and sthd fish counts using a colored dot legend to show fish density.
* **\Rock\_Ck\_base\_layers\_2\_16 -** folder consists of main shapefiles, rasters, and layer files for rock creek fish analysis.
	+ The layer files under the **\Rock\_ck\_bar\_lyrs** folder are my attempt at trying to separate the bar graphs from the map document and fish data that it was connected to, per request from the watershed council.
* **\UTM** – folder consists of shapefiles and rasters in UTM NAD 27 zone 10 N of rock creek trib
	+ **\Base\_map\_layers –** final shapefiles for use in map documents on Rock Creek analysis, includes geology, hillshade, Nehalem watershed trips clipped, rock ck and tribs, and rock ck drg clipped. \*Also in the folder is a copy of the final shapefile, “Final\_merge\_routes\_2\_2” used for creating route events for all the tributaries in the upper Nehalem.
* 4 map documents – Final maps showing 2009 fish counts for in Rock Ck for coho, cut, and sthd with bar graphs.

**\Lambert\_DEM\_clip**

Digital Elevation model and hillshade relief in Lambert clipped to study area of Nehalem Watershed.

**\LFA\_Report**

Limiting factors analysis GIS layers Brandon for Trask, various maps and documents Rock Creek focus.

**\LLID\_corrections\_12\_9**

Excel file with notes about LLID discrepancies, used to edit final merged routes.

\* Most were fixed but there was still some errors amongst field maps, LLID #’s, and the excel tables in naming and numbering of tributaries.

**\Merged\_24k\_DRG\_Nehalem**

Meged DRG Mr. Sid

**\Michelle\_Long\_Misc\_GIS**

Michelle Long GIS Layers

\*recieved for use late in project, was never used for much use as far as I know.

**\nehalem\_data\_taylor\_jan2010**

Stream Layer, Quad Layer unclipped DRG

\*Original data taylor downloaded in 2010, DRG’s of quads in the Nehalem watershed, stream shapefiles

**\nehalem\_rect\_clip\_aug24\_2010**

Various Clip Boxes

\*Used early in project to clip down to Nehalem watershed size from various sources, clip boxes in UTM and Lambert

**\odfw\_streams**

Various stream layers from original sources in Lambert and UTM, none of these are edited

**\OR\_Lambert**

Oregon stream layer

**\OR\_state\_forestry\_stream layer**

Stream layer fish presence data or model

**\Oregon\_Geology\_data**

Oregon Geology

\*Various sizes of clips of OR geology from statewide view, to coastal geology, to a clip of the Nehalem watershed geology with the path \New\_geology\_11\_5\_2010\UTM\nehalem\_geog\_clip.shp

**\Painted\_Relief\_Map\_aug25\_10**

Relief map with hillshade

\*painted relief map created by Ryan Stanley, hillshade raster also included in folder

**\precip\_data\_aug26\_10**

Oregon precipitation layers

**\RBA\_2008\_Data\_Tables**

Empty Folder

**\RBA\_2010\_Data\_Tables**

Access Data 2008,2009,2010 ***THIS IS THE ORIGINAL RBA SOURCE DATA FROM TRASK et al.***

**\RBA\_georegistered\_maps**

Georegistered original field maps, scanned and georegistered in summer of 2010

**\RBA\_unregistered\_field\_maps**

Unregistered original Field maps, scanned in summer 2010

**\Rock\_Ck\_base\_layers\_2\_16**

Brandon’s Rock Creek layers and PDF maps

\*Same files, shapes, and rasters as folder with same name seen under **\Huc\_6\_rock** folder,

\*Also includes pdf’s of final maps that show fish densities with bar graphs for 2009

**\Rock\_Creek\_LFA\_Trask**

Empty folder

**\Rock\_Creek\_maps\_2\_28**

Final Rock Creek PDF Maps after revisions proposed by watershed people and trask

**\Route\_data\_1\_27\_11**

HUC- wise routes, merged routes with rock creek focus \*Important folder in main process of routing tribs to allow data points to be strung out onto corresponding tributaries by matching LLID numbers.

* **\UTM**: This folder organized by HUC number, within each HUC folder, the tribs that start in the HUC were routed from the mouth to the headwaters. Most tribs were numbered based off the excel table **\Route\_data\_1\_27\_11\LLID\_route\_locator2.xls**. The table matched up LLID numbers with the corresponding route number assigned. Tribs with no LLID were named after their true trib name or letter of trib off another main stem.
* **\Merged\_Routes** : folder consists of all the individual routes from the UTM folder merged together into the HUC or into multiple HUC’s.
	+ **\Merged\_Routes\merged\_HUCs.shp:** Shapefile of all the routes from HUC’s merged together.
* **\Corrected\_Route\_additions** : Various route additions and corrections to original routes.
* **\Final\_merge\_routes\_2\_2.shp:** final shapefile of routes all merged together.

**\seminar\_1\_25**

Brandon’s Seminar Poster, Data paths broken

**\Soil\_data\_aug26\_10**

Soil Data, source by county, with merged

**\stream\_layer\_aug18\_2010**

Stream Layers of Nehalem, coast range watershed boundaries

* **\utm\nehelem\_llid\_streams.shp** is the main stream layer used throughout the project, it has been clipped and edited to get rid of smaller tribs around the edges though in other shapefiles.

**\UTM\_DEM\_clip**

Study Area Hillshade and DEM

**\Vegetation\_data\_aug26\_10**

Statewide Vegetation (Historic)

**\watershed\_boundary\_data**

Various Stream Layers, Boundary Clips, Hucs

* **\UTM\edited\_watershed\_bound\_stream\_layer\_clip.shp** : final edited stream layer for use in further studies. Taylor had Brandon edit out miscellaneous and extraneous tribs around edges of watershed to make a cleaner shapefile.
* The rest of the shapefiles are just various paths to obtaining a clean watershed boundary for use in clipping later in the project. The cleanest shapefile that was used the most was: **\UTM\nehalem\_watershed\_bound\_smooth.shp**

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**Lidar Data Products – Upper Nehalem Project**

**Aquilegia Leet Work – Summer/Fall 2011**

**J:\Watershed\_projects\Nehalem2\ Folder Contents Related to Lidar and Happy Water’s project work.**

*Compiled by review from Happy Waters, Jan. 23, 2012*

**\Aqua *(Final clipped / mosaic sub-basin Lidar products from Aquilegia work)***

Root files contain HUC sub-basin clip boundaries and boxes; “ext” = extracted by mask(clipped) to the shape of the HUC; “rec” means clipped to a rectangle around the HUC

**\Aqua \DEM Geobase**

Contains a geodatabase compilation of all DEM's both clipped to the shape of the HUC and cut to a rectangle around the HUC

**\Aqua \HSH-Geobase**

Contains a geodatabase compilation of all Hillshade models both clipped to the shape of the HUC and cut to a rectangle around the HUC

**\Aqua \Slope\_Geobase**

Contains a geodatabase compilation of all Slope models both clipped to the shape of the HUC and cut to a rectangle around the HUC

**\Aqua \huc\* dem**

ext means extracted by mask(clipped) to the shape of the HUC; rec means clipped to a rectangle around the HUC; “dem” = Digital Elevation Model

**\Aqua \huc\* hsh**

ext means extracted by mask(clipped) to the shape of the HUC; rec means clipped to a rectangle around the HUC; “HSH” = Hillshade Model

**\Aqua \huc\* slp**

ext means extracted by mask(clipped) to the shape of the HUC; rec means clipped to a rectangle around the HUC; “slp” = Slope model

**\ClipDar**

Where I saved all the intermediate and practice clipped rasters, also a storage for finalized clip rasters in case other folders get deleted.

**\Experiment Clips**

 Clips from the beginning of the project using 7th field instead of 6th field HUCs

**\Hillshade**

Where I saved all the intermediate and practice hillshade models, also a storage for finalized clip rasters in case other folders get deleted.

**\HUC\_Map\_Oct2011**

 The 6th field HUC's sub-basin shape files we have been clipping the LiDAR, updated data set Oct. 2011

**\Huc\_Dar**

 Clips of LiDar using 7th field (smaller) HUC's

**\Mos\_Dar**

Where I saved all the intermediate and practice mosaiced rasters, probably a couple finalzided rasters are hanging out here too

**\zSourceData**

folder containing some Nehalem folders, contains most of the data for vector maps like precip, soil, veg, etc.

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**RBA GIS Data Products – Upper Nehalem Project**

**Bill Vreeland Work – Summer-Fall 2011**

**J:\Watershed\_projects\Nehalem2\** **Product (Folder Contents Related to RBA Work)**

*Compiled by review from Bill Vreeland, Dec. 8, 2011*

 **\GraphicElements**

 **GraphicElements\SingleQuads**

 Quad clip boxes for Upper Nehalem (\*.shp)

 **\Maps**

 **\Maps\ArcGisMaps**

\*.mxd Arc map document files, relative addressing; tied to J:\Watershed\_projects\Nehalem2\Product folder (??? Pretty sure, double check with Bill??) … Product folder and data are self contained and map documents are connected to data by relative addressing, so could be whole sale copied (check with Bill?)

 **\Maps\PDFMAPS**

\*.pdf final maps produced by Bill at the upper Nehalem watershed scale; includes RBA results, abiotic factors, base maps, 36 x 48 sheets

 **\Rasters**

 Root files include Ryan’s Upper Nehalem painted atlas relief map;

 **\Rasters\Clipped\_Field\_Maps\_Georegistered**

 Scanned and georegistred quad RBA field maps from Trask et al., 2009-2010

 **\Rasters\RBA\_unregistered\_field\_maps**

 Scanned an unregistered quad RBA field maps from Trask et al., 2009-2010

 **\New Personal Geodatabase.idb**

A utility folder used for annotation on the RBA map documents, duplicate Shape files and rasters Bill used to construct labels on map products (do not delete)

 **\Shapefiles**

Includes all data layers from RBA study, including “painted” atlas relief model, and RBA shapefiles, end points, **and RBA routed streams (merged routes).**

**J:\watershed\_projects\Nehalem2\zNehalem**

Bill’s archival sub-folder with many of the raw data files, back-ups of Brandon’s work, and other data sets used in creating the GIS products. This folder has much source data and public downloads in it.

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**RBA GIS Data Products – Upper Nehalem Project**

**Ryan Stanley Work – Fall 2011/Winter 2012**

**J:\watershed\_projects\Nehalem2\AutomatedMaps** **(Folder Contents Related to Ryan’s RBA script Work)**

*Compiled by review by Taylor, Jan. 29, 2012*

 Root folder contains \*.py script ryan created to auto-generate and clip quad-scale map products.

 **\Clipped Points**

Vreeland RBA data shapefiles and products clipped to quads for use in generating RBA maps at the quadrangle scale.

 **\Maps**

Final \*.pdf RBA-quadrangle scale maps showing results of field surveys (point layers) on USGS DRG base; organized by RBA-year, fish species, including location of beaver dams.

 **\MXDs**

ESRI \*.mxd map document files that build the layer structure for output to final pdf’s. mxd’s are set to a relative data reference, so that the “AutomatedMaps” directory is portable.

 **\Quads**

Data layers used for quad base, includes black and white versions of the USGS DRG’s and quad clip boxes.

 **\Shapefiles**

 RBA source data shapefiles from Bill, that Ryan used to clip and build pdf-map products.

 **\Symbology**

 Ryan’s symbology files used to auto-construct map symbology.

**J:\watershed\_projects\nehalem\_final\_products\fly\_over\_animations**

Ryan’s \*.mov fly-over animations for the RBA study, organized by RBA survey year, fish species, 6th Field HUC.