Preliminary Delaware Coastal 2003 Database

The purpose of this document is to provide an overview of the preliminary Coastal 2003 Delaware database. These data are available to Coastal 2003 Partners for purposes of verification and validation and are not meant for public dissemination. This database will not be finalized until laboratory analyses of samples collected in the field are complete. Field data are stored in a format closely based on field datasheets. Data for Nutrients analyses are in the laboratory format provided. These have undergone initial QA checks. However they do not constitute a final database.

1)   Database Overview

The data sets that make up the database are:

Date/Location Data:	STATIONS	Sampling Station Location Data
	EVENTLOG	Station Visit Data
	BOATLOC	Detailed Sampling Location data
	SAMPLOG	All Samples collected at station
Water Quality Data:	WATRPHYS	Water Quality Physical Measurements Data
	CTDRET	Water Quality QA data
	NUTSAMPS	Water Quality Nutrients Sample Information
Sediment Quality Data:	SEDGRABS	Sediment Sample Information
	BENGRABS	Benthic Sample Information
Fish/Lobster Size Data:	TISSSUE	Tissue/Anatomical Measurements (fish, lobster, etc.)
	FTRAWL	Fish Trawl Descriptive Data

2)   Data Set Descriptions:

STATIONS (# Data Records: 19)

NAME	LABEL
STATION	National Coastal Assessment Station Name
STAT_ALT	Alternate Site Code (A,B,C)
STATE	State where Station is Located
MAP	Station Map
ESTUARY	Estuary Name
STA_LAT	Latitude (decimal degrees)
STA_LNG	Longitude (decimal degrees)
ST_COOP	State Doing the Sampling
LOCAL_ID	Station Identifier Used by State

EVENTLOG (# Data Records: 19)

NAME	LABEL
STATION	Station Identifier
STAT_ALT	Alternate Site Sampled (A, B, or C)
EVNTDATE	Event Date
CTDRET	Number of CTD Casts for Event
FLTCHL	Number of Chlorophyl Filters for Event
WTRNUT	Number of Dissolved Nutrient Samples for
WTRTSS	Number of TSS Samples for Event
SEDTOX	Number of Sed Tox Samples for Event
SEDGRN	Number of Sed Grain Size Samples for Event
SEDORG	Number of Sed Organics Samples for Event
SEDMET	Number of Sed Metals Samples for Event
BENINF	Number of Benthic Infauna Samples for Event
STDTRL	Number of Standard Fish Trawls for Event
FSHCHM	Number of Fish Chemistry Samples for Event
FSHTQA	Number of Fish Taxon QA Samples for Event
FSHPQA	Number of Fish Path. Samples for Event

BOATLOC (# Data Records: 19)

NAME	LABEL
STATION	Station Identifier
EVNTDATE	Event Date
STAT_ALT	Alternate Site Sampled (A, B, or C)
VISNUM	Number of Visit to this Station
BOATNAME	Boat Used for Sampling Event
CRWCHIEF	Crew Chief During Sampling Event
CRWMEMB1	Crew Member During Sampling Event (#1)
CRWMEMB2	Crew Member During Sampling Event (#2)
CRWMEMB3	Crew Member During Sampling Event (#2)
LANDCREW	Crew Member in Mobile Laboratory
VISITOR1	Authorized Visitor (#1)
EVNTPURP	Reason Authorized Person is Present
WTH_SUN	Weather Conditions--Sunny (Y/N)
WTH_PSUN	Weather Conditions--Partly Sunny (Y/N)
WTH_OCST	Weather Conditions--Overcast (Y/N)
WTH_RAIN	Weather Conditions--Rainy (Y/N)
WTH_WIND	Weather Conditions--Windy (Y/N)
WTH_FOG	Weather Conditions--Foggy (Y/N)
SEACOND	Sea Conditions during Event
BEGTIME	Time of Beginning of Sampling Event
STADEPTH	Depth of Water at Station (m)
HTIDTIME	Time of High Tide on day of Sampling
STAMOVED	Was the Station Moved?
COORDFRM	Coordinates Taken from Which Instrument?
EVNT_LAT	Event Latitude-Decimal Degrees
EVNT_LNG	Event Longitude-Decimal Degrees
TRASH	Trash present at Station

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PLASTIC        Trash at Station-Plastic
MEDWASTE       Trash at Station-Medical Waste
WOOD           Trash at Station- Wood
TIRES          Trash at Station-Tires
CANS           Trash at Station-Aluminum Cans
PAPER          Trash at Station-Paper
OILSLICK       Oil Slick on water at Station
OTH_TRSH       Other Trash as Station- description
STA_COMM       Station Information- comments
SAV            Submerged Aquatic Vegetation visible
MACROALG       Macro-Algae present at Station
INTERTID       Station is in Intertidal Zone
ENDTIME        Time Sampling Event Ended
PKGQABY        Data Package QA Person
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SAMPLOG (# Data Records: 227)

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NAME           LABEL

SAMPLEID       Sample Identification Number
STATION        Station Identifier
STAT_ALT       Alternate Site Sampled (A, B, or C)
EVNTDATE       Event Date
SAMPTYPE       Code for Sample Type
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WATRPHYS (# Data Records: 19)

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NAME           LABEL

STATION        Station Identifier
EVNTDATE       Event Date
STAT_ALT       Alternate Site Sampled (A, B, or C)
SL_TEMP        Surface Layer-Temperature from CTD (deg. C)
SL_SAL         Surface Layer-Salinity from CTD (ppt)
SL_OXY         Surface Layer-Dissolved Oxygen from CTD (mg/l)
SL_PH          Surface Layer-pH (pH units)
SL_DEPTH       Depth of Surface Readings (m)
BL_TEMP        Bottom Layer-Temperature from CTD (deg. C)
BL_SAL         Bottom Layer-Salinity from CTD (ppt)
BL_OXY         Bottom Layer-Dissolved Oxygen from CTD (mg/l)
BL_PH          Bottom Layer-pH (pH units)
BL_DEPTH       Depth of Bottom Layer Readings (m)
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CTDRET (# Data Records: 19)

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NAME           LABEL

STATION        Station Identifier
STAT_ALT       Alternate Site Sampled (A, B, or C)
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        EVNTDATE        Event Date
        SAMPLEID        Sample ID Number Related to Sample Type
        SECCHI_D        Secchi Depth (me)
        SECC_BOT        Secchi Disk on Bottom?
        CASTTIME        Time CTD Cast was Performed
        CTDFILE         CTD file name at downloading
        CTD_ID          ID Number of CTD Used for Cast
        CTDDEPTH        Water Depth Read with CTD
        PARFILE         PAR file name at downloading
        SUNITTMP        Surface Temperature from CTD (deg. C)
        SUNITSAL        Surface Salinity from CTD (ppt)
        SUNIT_DO        Surface Dissolved Oxygen from CTD (mg/L)
        SAMBITMP        Surface Temp. from Thermometer (deg. C)
        SAMBISAL        Surface Sal. from Refractometer (ppt)
        SAMBI_DO        Surface Dissolved Oxygen from YSI (mg/L)
        SDIFF_OX        Surface DO Difference, CTD vs YSI (mg/L)
        BUNITTMP        Bottom Temperature from CTD (deg. C)
        BUNITSAL        Bottom Salinity from CTD (ppt)
        BUNIT_DO        Bottom Dissolved Oxygen from CTD (mg/L)
        BUNIT_PH        Bottom pH (pH units)
        CTDCOMM         CTD Cast Coments
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NUTSAMPS (# Data Records: 95)

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        NAME            LABEL

        STATION         Station Identifier
        STAT_ALT        Alternate Site Sampled (A, B, or C)
        EVNTDATE        Event Date
        LAYER           Water Layer of Nutrients Sample
        REP             Nutrient Sample Field Replicate #
        NUT_SAL         Water Salinity for Nutrient Sample
        VOL_FLT         Volume Filtered for Nutrient Samples
        FILTMETH        Filtration Method (V/P)
        CHL_ID          Chlorophyll Sample Id.
        NUT_ID          Dissolved Nutrients Sample Id.
        TSS_ID          TSS Sample Id.
        TN_ID           Total Nutrients Sample Id.
        NUT_COMM        Nutrients Comments
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SEDGRABS (# Data Records: 19)

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        NAME             LABEL

        STATION         Station Identifier
        STAT_ALT        Alternate Site Sampled (A, B, or C)
        EVNTDATE        Date of Sampling Event
        HOMGRABS        Grabs in Homogenized Sediment Sample (#)
        HOMGFAIL        Unsuccessful Grabs (#)
        ALLSAMPS        All Samples Collected?
        S_REASON        Reason Samples not Collected
        SEDCOMM         Comment on Grab Attempts
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BENGRABS (BENINF) (# Data Records: 19)

NAME	LABEL
SAMPLEID	Benthic Infauna Sample ID Number
STATION	Station Identifier
STAT_ALT	Alternate Site Sampled (A, B, or C)
EVNTDATE	Event Date
BENGRAB	Grab Associated with Infauna Sample (#)
GRABSIZE	Size of Benthic Grab Sampler
BENDEPTH	Penetration Depth of Grab in Sed. (mm)
BEN_SAV	Submerged Aquatic Veg. in Benthic Sedime
BEN_ALG	Algae Present in Benthic Sediment
BEN_JARS	Number of Jars Used to Hold Sample (#)
BENCOLOR	Benthic Sediment Color
BENTYPE	Benthic Sediment Type
BENOOZY	Benthic Sediment Notes--Oozy
BENHARD	Benthic Sediment Notes--Hard
BENSOFT	Benthic Sediment Notes--Soft
BENSHELL	Benthic Sediment Notes--Shell
BENROCKS	Benthic Sediment Notes--Rocks
BENNOOTH	Benthic Sediment Notes--Other
BENSMELL	Benthic Sediment Smell
BENWORMS	Worms found in Benthic Sediment
BENTUBES	Worm Tubes found in Benthic Sediment
BENCRUST	Crustaceans found in Benthic Sediment
BENECHIN	Echinoderms found in Benthic Sediment
BENVEG	Vegetation found in Benthic Sediment
BENMOLL	Molluscs found in Benthic Sediment
BENAMP	A. abdita found in Benthic Sediment
BENBIOTH	Other Infauna found in Benthic Sediment
ALLBSMPS	All Benthic Samples taken
B_REASON	Reason Benthic Samples NOT taken
B_COMMNT	Benthic Grab Comment

TISSUE (FISHLEN) (# Data Records: 266)

NAME	LABEL
STATION	Station Identifier
EVNTDATE	Date of Sampling Event
STAT_ALT	Alternate Site Sampled (A, B, or C)
FTRAWLID	Trawl Identifier
FCOMNAME	Fish Taxa Common Name
F_COUNT	Number of this Fish Taxa caught
COMP_ID	Fish Chemistry Composite Identifier
FSEQNUM	Fish Sequence Number
FLENGTH	Length (mm)
LUMPS	Fish Pathology: Lumps
LUMP_LOC	Loccations of Lumps
GROWTHS	Fish Pathology: Growths
GRWTHLOC	Locations of Growths

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        ULCERS          Fish Pathology: Ulcers
        ULCERLOC        Locations of Ulcers
        FINROT          Fish Pathology: Fin Erosion
        FROT_LOC        Locations of Fin Erosion
        GILL_ER         Fish Pathology: Gill Erosion
        GE_LOC          Locations of Gill Erosion
        GILL_DC         Fish Pathology: Gill Discoloration
        GD_LOC          Locations of Gill Discoloration
        SAMPLEID        Fish Sample Identifier
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FTRAWL (# Data Records: 19)

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        NAME            LABEL


        STATION     Station Identifier
        STAT_ALT    Station Location (A
        EVNTDATE    Event Date
        FTRAWLID    Fish Trawl ID Number
        FTRLFLAG    Status of Completed Fish Trawl
        NT_REASN    Reason Trawl not Completed
        FTB_TIME    Begin Time of Fish Trawl
        FT_DUR      Duration of Fish Trawl (mmss)
        FTMAXDEP    Maximum Water Depth during Trawl
        FTMINDEP    Minimum Water Depth during Trawl
        FT_LINE     Fish Trawl Line out
        FSPECCNT    Total Fish Species in Trawl (#)
        FWTR_SPD    Trawl Speed through Water (knots)
        FBOT_SPD    Trawl Speed over Bottom (knots)
        FTB_LATD    Trawl Beginning Latitude-Degrees
        FTB_LATM    Trawl Beginning Latitude-Minutes
        FTB_LNGD    Trawl Beginning Longitude-Degrees
        FTB_LNGM    Trawl Beginning Longitude-Seconds
        FTE_LATD    Trawl End Latitude-Degrees
        FTE_LATM    Trawl End Latitude-Minutes
        FTE_LNGD    Trawl End Longitude-Degrees
        FTE_LNGM    Trawl End Longitude-Seconds
        ftrash      Any trash in Trawl
        FPLASTIC    Trash in Trawl-Plastic
        FMEDWAST    Trash in Trawl-Medical Waste
        FCANS       Trash in Trawl-Aluminum Cans
        FTIRES      Trash in Trawl-Tires
        FGLASS      Trash in Trawl-Glass
        FPAPER      Trash in Trawl-Paper
        FNTLWOOD    Trash in Trawl-Natural Wood
        FMMDWOOD    Trash in Trawl-Manmade wood
        FFSHGEAR    Trash in Trawl-Comm. Fish Gear
        FROCKS      Trash in Trawls-Rocks
        FVEGETAT    Trash in Trawl-Vegetation
        FTRSHOTH    Trash in Trawl-Other Type
        finverts    Any inverterbrates in Trawl
        FTBLUCRB    Invertebrates in Trawl-Blue Crabs
        FTHRSCRB    Invertebrates in Trawl-Horseshoe Crabs
        FTSPDCRB    Invertebrates in Trawl-Spider Crabs
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FTOTHCRB    Invertebrates in Trawl-Other Crabs
FTECHIN     Invertebrates in Trawl-Echinoderm
FTBIVALV    Invertebrates in Trawl-Bivalves
FTGASTRO    Invertebrates in Trawl-Gastropods
FTSQUID     Invertebrates in Trawl-Squid
FTSHRIMP    Invertebrates in Trawl-Shrimp
FTMANSHR    Invertebrates in Trawl-Mantis Shrimp
FTLOBST     Invertebrates in Trawl-Lobsters
FTINVOTH    Invertebrates in Trawl-Other Kind
FT_CMMNT    Fish Trawl- Comment
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