Metadata for essential tables in Salvage_data_FTP

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TABLES

Sample:

Contains data on sample date, temperature pumping/count minutes, bay width, primary channel parameters, comments, and sampler initials.

It's function is to serve as a base table to provide data to create queries for length, count, operational data, loss calculations, error reports, etc.

Table is typically linked by *samplerowID"* to tables "building", and by *studycode* to "studyfactorparameters".

Column Headings:
SamplerowID: unique code to identify row.

Samplemethod: "1" for SWP and "2" for CVP.

SampleDate: date of sample.

SampleTime: time of count in military time.

MinutePumping: minutes the pumping plant exported water.

SampletimeLength: minutes of count.

Studycode: 0000 for regular salvage.

Acrefeet: daily acre feet exported (AF).

Water temperature: water temperature (°F).

PrimaryDepth: primary channel depth (feet).

PrimaryFlow: primary channel flow (cfs).

Baypump1: 21 feet for both SWP and CVP.

Baypump2: 21 feet for both SWP and CVP.

Baypump3: 43 feet for SWP and 21 feet for CVP.

Baypump4: 43 feet for SWP and 21 feet for CVP.

Baypump5: 21 feet for SWP. CVP only has 4 bays.

Sampler: initials of facility operator collecting data.

Comments: comments from facility operator collecting data.

Username: Identifies name of user.

s_ColLineage: automatically generated when the data base is replicated.

s_Generation: automatically generated when the data base is replicated.

S_Lineage: automatically generated when the data base is replicated.

Table 1   "Sample" fields and attributes. A "D" indicates a date field, an "N" indicates a numeric field, a "C" indicates a character field (text), and an "O" indicates an object field (binary data)

Name	Data format type	Field size	Number of decimal points
SampleRowId	N	Replication ID	None
SampleDate	D	Short Date	NA
SampleTime	N	Short Time	NA
SampleMethod	C	50	None
StudyCode	C	15	None
AcreFeet	N	Long Integer	None
MinutesPumping	N	Integer	None
SampleTimeLength	N	Single	None
WaterTemperature	N	Single	1
PrimaryDepth	N	Single	1
PrimaryFlow	N	Long Integer	None
BayPump1	N	Is a check field. yes/no	None
BayPump2	N	Is a check field. yes/no	None
BayPump3	N	Is a check field. yes/no	None
BayPump4	N	Is a check field. yes/no	None
BayPump5	N	Is a check field, yes/no	None
Sampler	C	8	NA
Comments	C	50	NA
UserName	C	20	NA
s_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
s_Generation	N	Long Integer	None
S_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR

NA: Date, time, and text does not apply decimal points

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential
(incremented by 1) number or random number assigned by Microsoft
Access whenever a new record is added to a table.
AutoNumber (Replication ID) fields can't be updated.

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no
fractions) 4 bytes

Integer: Stores number from -32,768 to 32,767 (no fractions) 2 bytes

Single: Stores number from -3.402823E38 to -1.401298E-45 for negative values and
from 1.401298E-45 to3.402823E38 for positive values. 4 bytes

Catch:

Contains data on species and count.

It's function is to serve as a base table to provide data to create queries for count, salvage,
loss calculations, length, error reports, etc.

Table is typically linked by *buildingrowID"* to tables "building", by *catchrowID* to
"length", and by *studycode* to "studyfactorparameters".

Column headings:

CatchrowID: unique code to identify row.

BuildingrowID: unique code to identify row.

Organismcode: species code.

Count: number of fish per count.

s_ColLineage: automatically generated when the data base is replicated.

s_Generation: automatically generated when the data base is replicated.

S_Lineage: automatically generated when the data base is replicated.

Table 2 "Catch" fields and attributes. A "N" indicates a numeric field,
and an "O" indicates an object field (binary data)

Name	Data format type	Field size	Number of decimal points
CatchRowId	N	Replication ID	None
BuildingRowId	N	Replication ID	None
OrganismCode	N	Integer	None
Count	N	Long Integer	None
s_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
s_Generation	N	Long Integer	None
S_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential
(incremented by 1) number or random number assigned by Microsoft
Access whenever a new record is added to a table.
AutoNumber (Replication ID) fields can't be updated.

Integer: Stores number from -32,768 to 32,767 (no fractions) 2 bytes

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no
fractions) 4 bytes

Building:

Contains data on bypasses in use, holding tank flow, secondary flow, and
holding tank flow.

It's function is to serve as a base table to provide data to create queries for count, salvage,
loss calculations, length, error reports, etc.

Table is typically linked by *buildingrowID"* to tables "catch", f*acilitycode* to
"stationlookup", and by *samplerowID* to "sample".

Column headings:

SamplerowID: unique code to identify row.

BuildingrowID: unique code to identify row.

BuildingCode: NS for new building at SWP, OS for old building at SWP, and F for CVP.

Primarybypass: number of bypasses open.

SecondaryDepth: depth of secondary (feet).

SecondaryFlow: flow in secondary channel (cfs).

HoldingTankFlow: flow in holding tanks (cfs).

s_ColLineage: automatically generated when the data base is replicated.

s_Generation: automatically generated when the data base is replicated.

S_Lineage: automatically generated when the data base is replicated.

Table 3 "building" fields and attributes. An "N" indicates a numeric field,
A "C" indicates a character field (text), and an "O" indicates an object field (binary data)

Name	Data format type	Field size	Number of decimal points
BuildingRowId	N	Replication ID	None
SampleRowId	N	Replication ID	None
BuildingCode	C	4	NA
PrimaryBypass	N	Integer	None
SecondaryDepth	N	Single	1
SecondaryFlow	N	Integer	None
HoldingTankFlow	N	Single	1
s_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
s_Generation	N	Long Integer	None
S_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR

NA: Text does not apply decimal points

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential
(incremented by 1) number or random number assigned by Microsoft
Access whenever a new record is added to a table.
AutoNumber (Replication ID) fields can't be updated.

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no
fractions) 4 bytes

Integer: Stores number from -32,768 to 32,767 (no fractions) 2 bytes

Single: Stores number from -3.402823E38 to -1.401298E-45 for negative values and
from 1.401298E-45 to3.402823E38 for positive values. 4 bytes

Length:

Contains data on fish lengths.

It's function is to serve as a base table to provide data to create queries for length, loss
calculations, adipose clips, error reports, etc.

Table is typically linked by *catchrowID"* to table "catch".

Column headings:

CatchrowID: unique code to identify row.

LengthrowID: unique code to identify row.

ForkLength: lengths for each species at each count time.

LengthFrequency: length frequency for each length at each
count time.

Adiposeclip: -1 for clipped Chinook salmon and steelhead; 0 for all other species.

Sex: non functional.

s_ColLineage: automatically generated when the data base is replicated.

s_Generation: automatically generated when the data base is replicated.

S_Lineage: automatically generated when the data base is replicated.

Table 4 "length" fields and attributes. An "N" indicates a numeric field, a "C" indicates a character field (text), and an "O" indicates an object field (binary data)

Name	Data format type	Field size	Number of decimal points
LengthRowId	N	Replication ID	None
CatchRowId	N	Replication ID	None
ForkLength	N	Integer	None
LengthFrequency	N	Integer	None
AdiposeClip	N	Is a check field. Yes/No	None
Sex	C	3	NA
s_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
s_Generation	N	Long Integer	None
S_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR

NA: Text does not apply decimal points

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential (incremented by 1) number or random number assigned by Microsoft Access whenever a new record is added to a table. AutoNumber (Replication ID) fields can't be updated.

Integer: Stores number from -32,768 to 32,767 (no fractions) 2 bytes

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no fractions) 4 bytes

Organismlookup:

Contains species names, scientific names, and species codes.

It's function is to provide organism names and their respective code.

No apparent links to any tables .

Column headings:

OrganismRowID: unique code to identify row.

OrganismCode: species code.

Active: -1 for active code and 0 for inactive code.

Common Name: common name of fish.

Phylum: Phylum name of fish.

Class: class name of fish.

Order: order name of fish.

Family: family name of fish.

Genus: genus name of fish.

Species: species name of fish.

Comments: None recorded.

Normalized Code: alternative codes for organism codes.

s_ColLineage: automatically generated when the data base is replicated.

s_Generation: automatically generated when the data base is replicated.

S_Lineage: automatically generated when the data base is replicated.

Table 5 "Organism Lookup" fields and attributes. A "D" indicates a date field; an "N" indicates a numeric field, a "C" indicates a character field (text), and an "O" indicates a object field (binary data)

Name	Data format type	Field size (characters)	Number of decimal point
OrganismRowID	N	Replication ID	None
OrganismCode	N	Integer	None
Active	N	Is a check field yes/no	None
CommonName	C	25	NA
Phylum	C	30	NA
Class	C	30	NA

Order	C	30	NA
Family	C	30	NA
Genus	C	30	NA
Species	C	30	NA
Comments	C	50	NA
NormalizedCode	N	Integer	None
S_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
S_Generation	N	Long Integer	None
S_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR

NA: Date, time, and text does not apply decimal points

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential (incremented by 1) number or random number assigned by Microsoft Access whenever a new record is added to a table.
AutoNumber (Replication ID) fields can't be updated.

Integer: Stores number from -32,768 to 32,767 (no fractions) 2 bytes

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no fractions) 4 bytes

Stationlookup:

Contains species names, scientific names, and species codes.

It's function is to provide organism names and their respective code.

Table is typically linked by f*acilitycode* to table "building".

Column headings:

StationRowID: unique code to identify row.

Facility Code: F for federal facility, NS for new state facility, or OS for old state facility.

Active: -1 for active columns.

Location: federal facility, new state facility, or old state facility.

Northing: no data listed.

Easting: no data listed.

Building Description: no data listed.

Coordinate Units: no data listed.

Coordinate Units: no data listed.

Grouping codes: 1 for SWP and 2 for CVP.

Comments: lists SWP or CVP.

Table 6 "StationLookup" fields and attributes. A "D" indicates a date field; an "N" indicates a numeric field, a "C" indicates a character field (text), and an "O" indicates an object field (binary data)

Name	Data format	Field size (characters)	Number of decimal points
s_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
s_Generation	N	Long Integer	None
s_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR
StationRowID	N	Replication ID	None
FacilityCode	C	4	NA
Active	N	Is a check field yes/no	None
Location	C	50	NA
Northing	N	Double	Auto
Easting	N	Double	Auto
BuildingDescription	C	20	NA
CoordinateUnits	C	25	NA
GroupingCode	C	10	NA
Comments	C	50	NA

NA: Date, time, and text does not apply decimal points

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential (incremented by 1) number or random number assigned by Microsoft

Access whenever a new record is added to a table.
AutoNumber (Replication ID) fields can't be updated.

Double: Stores numbers from –1.79769313486231E308 to –4.94065645841247E–324
for negative values and from 4.94065645841247E–324
to 1.79769313486231E308 for
positive values. 16 bytes

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no
fractions) 4 bytes

Unitslookup:

Contains unit measurements for data base variables

It's function is to provide a reference guide for unit measurements for data base variables.

No apparent links to any tables.

Column headings:

UnitRowID: unique code to identify row.

VariableName: lists name of variable.

FromDate: listed as 1/1/1980.

ToDate: no data listed.

Units: lists unit measurement.

SignificantDecimal: Lists decimal point for variable.

CodeListName: lists code name or lookup table.

s_ColLineage: automatically generated when the data base is replicated.

s_Generation: automatically generated when the data base is replicated.

S_Lineage: automatically generated when the data base is replicated.

Table 7 "UnitsLookup" fields and attributes. A "D" indicates a date field; an "N" indicates a numeric field, a "C" indicates a character field (text), and an "O" indicates a object field (binary data)

Name	Data format type	Field size (characters)	Number of decimal points
UnitRowID	N	Replication ID	None
VariableName	C	25	NA
FromDate	Date/Time	Blank	NA
ToDate	Date/Time	Blank	NA
Units	C	50	NA
SignificantDecimal	N	Integer	Auto
CodeListName	C	20	NA
s_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
s_Generation	N	Long Integer	None
s_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR

NA: Date, time, and text does not apply decimal points

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential (incremented by 1) number or random number assigned by Microsoft Access whenever a new record is added to a table. AutoNumber (Replication ID) fields can't be updated.

Integer: Stores number from -32,768 to 32,767 (no fractions) 2 bytes

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no fractions) 4 bytes

Studieslookup:

Contains study codes for salvage (0000), predator removal (9999), traveling screen (7777), and special studies (8888).

It's function is to provide codes for salvage, predator removal, and special studies. Traveling screen is not currently used.

No apparent links to any tables.

Column headings:

StudyrowID: unique code to identify row.

Studycode: salvage (0000), predator removal (9999), traveling screen (7777), and special studies (8888).

Active: -1 for active column.

Description: describes 7777, 8888, 9999, and 0000.

Table 8 "StudiesLookup" fields and attributes. A "D" indicates a date field; an "N" indicates a numeric field, a "C" indicates a character field (text), and an "O" indicates an object field (binary data)

Name	Data format type	Field size (characters)	Number of decimal points
s_ColLineage	O	Up to 1 gigabyte (limited by available disk space)	NR
s_Generation	N	Long Integer	None
s_Lineage	O	Up to 1 gigabyte (limited by available disk space)	NR
StudyRowID	N	Replication ID	None
StudyCode	C	15	NA
Active	N	Is a check field yes/no	None
Description	C	50	NA

NA: Date, time, and text does not apply decimal points

NR: Output listed as "long binary code"

Replication ID: Globally unique identifier (GUID) - 16 bytes, a unique sequential
        (incremented by 1) number or random number assigned by Microsoft
        Access whenever a new record is added to a table.
        AutoNumber (Replication ID) fields can't be updated.

Long Integer: (Default) Stores number from -2,147,483,648 to 2,147,483,647 (no fractions) 4 bytes