Data Acquisition Standard Operating Procedures

Suwannee River Water Management District Water Resource Monitoring Program (ID# 477)

Last Updated: 2/17/2024

Program Summary

Water quality stations throughout the big bend region of Florida in the Suwannee River Water Management District, but the most coastal are downstream in Steinhatchee and Suwannee Rivers.

URLs

- Program - http://www.mysuwanneeriver.com/
- DDI - https://data.florida-seacar.org/programs/details/477

Contacts

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Data Tables

- Data_477A_Final
- Data_477A_Load

Data Stored Procedures

- usp_combined_wq_wc_nut_insert_477A

Data Acquisition Standard Operating Procedures: ProgramID *477*

Date Created: *02/25/2019*

Created By: *Claude Kershaw*

Data File Path:

1. STORET and WIN Data Tables already in the SEACAR database.

DDI URL: http://dev.seacar.waterinstitute.usf.edu/datadiscovery/programs/details/477

Contact Information:

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Procedure Overview:

1. Use SQL Server Import Export Wizard to load the data from **Data_STORET_Load** into table **Data_477A_Load** where OrgID = "21FLSUW".
2. Use SQL Server Import Export Wizard to load the data from **Data_WIN_Load** into table **Data_477B_Load** where OrgID = "21FLSUW".
3. Execute procedure usp_Data_477A_Load_insert to load the data into table **Data_477A_Final.**
4. Execute procedure usp_Data_477B_Load_insert to load the data into table **Data_477B_Final.**
5. Add the Monitoring Locations from table **SampleLocation_STORET and SampleLocation_WIN** to the **SampleLocation_Point** table where OrgID = "21FLSUW".
6. Add new Monitoring Locations into the **SampleLocation** table. This will generate a LocationID for each Monitoring Location.
7. Update the **SampleLocation_Point** table with the LocationID generated in the **SampleLocation** table. Run procedure usp_SampleLocation_Point_update to do this.
8. Update the LocationID column in table **Data_477A_Final** with the LocationID in the **SampleLocation** table. Join on the ['STORET_'+Station_ID] column in **Data_477A_Final** and the ProgramLocationID column in **SampleLocation.**
9. Update the LocationID column in table **Data_477B_Final** with the LocationID in the **SampleLocation** table. Join on the ['WIN_'+Station_ID] column in **Data_477B_Final** and the ProgramLocationID column in **SampleLocation.**

Data Tables

1. Data_477A_Load
2. Data_477A_Final
3. Data_477B_Load

4. Data_477B_Final

Data Stored Procedures

1. usp_Data_477A_Load_insert
2. usp_Data_477B_Load_insert
3. usp_SampleLocation_Point_update

GIS Procedures

1. The Monitoring Location information is found in the table **Locations_477A**.
2. Complete steps 5 through 9 in the “Procedure Overview” section of this document.

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE PROC [dbo].[usp_combined_wq_wc_nut_insert_477A]

AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;

-- THIS IS JUST FOR STORET/WIN DATA MANUAL LOADS

-- Constants - PLEASE SET NOW!!
DECLARE @combinedTable varchar(50) = 'Combined_WQ_WC_NUT'
DECLARE @dataLoadCode varchar(10)

-- Temporary
SET @dataLoadCode = '477A'

-- Setup data load
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID varchar(10);
DECLARE @dataStreamID varchar(10);

SELECT@dataStreamID = DataStreamID,
@programID = ProgramID
FROMDataStreamProcedure
WHEREDataLoadCode = @dataLoadCode;
ÿ
-- Delete Existing Data
exec usp_delete_combined @datastreamID, @combinedTable
ÿ

INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID, SampleDate,
ActivityDepth_m, TotalDepth_m, RELATIVEDEPTH, ResultValue,  DateAdded, SampleFraction,
ValueQualifierID,ActivityType)
SELECT@programID,@dataStreamID,parameterID, locationID, a.ACTIVITY_START_DATE,
a.ACTIVITY_DEPTH,d.RESULT_VALUE, a.REL_DEPTH, d.RESULT_VALUE, getdate(), a.SAMPLE_FRACTION,
vq.valuequalifierid, a.ACTIVITY_TYPE
FROMData_477A_Final a
INNER JOINCombined_Conversion_Parametersb ON a.CHARACTERISTIC = b.OriginalParameter and a.RESULT_U
= b.OriginalUnits and b.DatastreamID = @dataStreamID
INNER JOINCombined_Parametersc ON b.TargetParameterID = c.ParameterID
LEFT JOINCombined_ValueQualifiervq ON vq.ValueQualifier = a.VALUE_QUALIFIER
LEFT JOIN(SELECT RESULT_VALUE, RESULT_UNIT, ACTIVITY_ID
           FROM Data_477A_Final
 WHERE CHARACTERISTIC = 'Depth, bottom') d ON a.ACTIVITY_ID = d.ACTIVITY_ID
WHERE(ISNUMERIC(a.RESULT_VALUE) = 1 OR a.RESULT_VALUE IN ('ON BOTTOM'))
ANDa.ACTIVITY_START_DATE not like '0%'
ANDvq.QualifierSource = 'STORET_WIN'
UNION ALL
-- INSERT MDL when result is '*Non-detect'
SELECT@programID,@dataStreamID,parameterID, locationID, a.ACTIVITY_START_DATE,
a.ACTIVITY_DEPTH,d.RESULT_VALUE, a.REL_DEPTH, d.RESULT_VALUE, getdate(), a.SAMPLE_FRACTION,
vq.valuequalifierid, a.ACTIVITY_TYPE
FROMData_477A_Final a
INNER JOINCombined_Conversion_Parametersb ON a.CHARACTERISTIC = b.OriginalParameter and
a.DETECTION_UNIT = b.OriginalUnits and b.DatastreamID = @dataStreamID
INNER JOINCombined_Parametersc ON b.TargetParameterID = c.ParameterID
LEFT JOINCombined_ValueQualifiervq ON vq.ValueQualifier = a.VALUE_QUALIFIER
LEFT JOIN(SELECT RESULT_VALUE, RESULT_UNIT, ACTIVITY_ID
           FROM Data_477A_Final
 WHERE CHARACTERISTIC = 'Depth, bottom') d ON a.ACTIVITY_ID = d.ACTIVITY_ID
WHEREa.RESULT_VALUE = '*Non-detect'
ANDa.ACTIVITY_START_DATE not like '0%'
ANDvq.QualifierSource = 'STORET_WIN'
```

```
DELETECombined_Data_Tracking
WHEREDataStreamID = @dataStreamID
AND@combinedTable = @combinedTable

INSERT INTO Combined_Data_Tracking (ProgramID, IndicatorID, DataStreamID, ParameterID,
CombinedTableName, NumRowsFinal, NumRowsCombined, LastUpdateDate, LastUpdateBy)
SELECT@ProgramID, b.IndicatorID, a.DataStreamID, a.ParameterID, @CombinedTable,
COUNT(a.ResultValue), COUNT(a.ResultValue), GETDATE(), @runBy
FROMCombined_WQ_WC_NUTa
INNER JOINCombined_Parameters b on a.ParameterID = b.ParameterID
WHEREa.ProgramID = @ProgramID
AND a.DataStreamID = @dataStreamID
GROUP BY a.ProgramID, b.IndicatorID, a.DataStreamID, a.ParameterID
/*
SELECT *
FROM DataStreamProcedure
where ProgramID = 477
ÿ
exec usp_delete_combined 206, 'Combined_WQ_WC_NUT'
*/

END









GO
```