

Type	Station	Location	Agency	Water Quality Parameters	*Frequency and Sample Type	
					Flowing	Non-Flowing
S_WQ	SAFARI	Downstream of culvert south of L29, approximately 8 mi. west of L31N.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, DO, SC, T & pH</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	GLADER	Downstream of culvert south of L29, approximately 5-1/4 mi. west of L31N.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, DO, SC, T & pH</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	COOPERTN	Downstream of culvert south of L29, approximately 4 mi. west of L31N.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, DO, SC, T & pH</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	G211	In L31N borrow canal just south of C1W. Head Water.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	S24A	Non-operational structure approximately midway between S334 and G211 on ENP boundary. Collection area on ENP side of structure. Head and Tail Water.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	S333	SE Corner of WCA3A at L29.	SFWMD	<i>DO, SC, pH, Turb, TSS, NO₃, TKN, OPO_d, TPO_d, Na, K, Ca, Mg, Cl, SO₄, Alk</i>	Weekly when flowing; otherwise monthly; grab	Monthly grab; collection and analyses by SFWMD
				<i>TPO_d, TKN, NO_x</i>	Time-proportional autosampler: weekly	

Type	Station	Location	Agency	Water Quality Parameters	*Frequency and Sample Type	
					Flowing	Non-Flowing
S_WQ	S334	On L29 approximately 1/4 mile west of L31N. Head Water.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, DO, SC, T & pH</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	S335	On L30 north of L29. Tail Water and Head Water.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	S336	On C4 east of L30/L31N. Head Water.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	S338	On C1W east of L31N. Head Water.	SFWMD	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	S356	On L29 approximately 1/4 mi. west of L31N.	SFWMD	<i>DO, SC, pH, Turb, TSS, NO₃, TKN, OPO₄, TPO_d, Na, K, Ca, Mg, Cl, SO₄, Alk</i>	Weekly when flowing; otherwise monthly; grab	Monthly grab; collection and analyses by SFWMD
		NOTE: Autosampler on site.		<i>TPO_d, TKN, NO_x</i>	Time-proportional autosampler: weekly	
S_WQ	L31NMile0	0.06 miles south of the intersection of L29 and L31N – Stage gage; 25° 45' 36.25" N, 80° 29' 53.32" W	MDLP	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD

Type	Station	Location	Agency	Water Quality Parameters	*Frequency and Sample Type	
					Flowing	Non-Flowing
S_WQ	L31NMile1	One mile south of the intersection of L29 and L31N - miles south of the intersection of L29 and L31N – Stage gage; 25° 44' 46.75" N, 80° 29' 51.46" W	USGS	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	L31NMile2	Two miles south of the intersection of L29 and L31N - miles south of the intersection of L29 and L31N – Stage gage; 25° 43' 54.75" N, 80° 29' 48.72" W	MDLP	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	L31NMile3	Three miles south of the intersection of L29 and L31N - miles south of the intersection of L29 and L31N – Stage gage; 25° 43' 03.32" N, 80° 29' 47.57" W	USGS	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	L31NMile4	Four miles south of the intersection of L29 and L31N - miles south of the intersection of L29 and L31N – Stage gage; 25° 42' 06.82" N, 80° 29' 45.23" W	USGS	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	L31NMile5	Five miles south of the intersection of L29 and L31N – Stage gage; 25° 41' 09.81" N, 80° 29' 50.10" W	USGS	<i>TPO_d, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD

Type	Station	Location	Agency	Water Quality Parameters	*Frequency and Sample Type	
					Flowing	Non-Flowing
S_WQ	L31NMile7	6.79 miles south of the intersection of L29 and L31N – Stage gage; 25° 39' 49.41" N, 80° 29' 53.68" W	USGS	<i>TPO₄, Na, Ca, Mg, K, Cl, SO₄, Alk, SC, DO, pH, SC, T</i>	Biweekly; grab; collection and analyses by SFWMD	Monthly grab; collection and analyses by SFWMD
S_WQ	NE1	In the Park marsh, 4.67 miles south of the L29 canal	ENP / SFWMD	<i>Turb, TSS, NOX, NO2, NH4, TKN, OPO4, TPO4, Na, K, Ca, Mg, Cl, SO4, Hard, Alk, NO3, T, DO, SC, pH</i>	Monthly; grab; collection by ENP, and analysis by SFWMD	Monthly; grab; collection by ENP, and analysis by SFWMD
S_WQ	SRS1C	In the Park marsh, 0.42 miles south of L29 canal	SFWMD	<i>TPO₄, DO, pH, SC, T</i>	Monthly; grab; collection by ENP, and analysis by SFWMD	Monthly; grab; collection by ENP, and analysis by SFWMD
S_WQ	SRS1B	In the Park marsh, 0.31 miles south of L29 canal	SFWMD	<i>TPO₄, DO, pH, SC, T</i>	Monthly; grab; collection by ENP, and analysis by SFWMD	Monthly; grab; collection by ENP, and analysis by SFWMD

LEGEND		
Color Code	Description	Parameters
Blue	Station currently being monitored	Red text: added analytes

Green	Proposed station; many stations were previously monitored by SFWMD	
White	Currently being monitored by SFWMD	

*INTENT IS TO EVALUATE THE MONITORING PERIODICALLY (PLACEHOLDER IS QUARTERLY) TO DETERMINE IF MONITORING CAN BE REDUCED OR TO DETERMINE IF THE MONITORING PLAN NEEDS OTHER ADJUSTMENTS

DRAFT

Feedback from H&H Sub-team needed

- Canal survey needed around and west of S-356 along L-29. Existing survey near TT bridge does not extend far enough east.
- Flow measurements along L-29: Where, what type are needed?
- Operational plan needed soon to determine that Surface Water Monitoring Plan is adequate to satisfy goals and objectives, final adjustments to surface water monitoring plan may be necessary.



Water Quality



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WQ Team Discussion of Reasonable Assurance Evaluations At S-356

Corps Proposed Evaluation at S-356 tied directly to existing Appendix A calculations.

DEP/SFWMD presented the proposed alternative method to the TOC Appendix A team on Tuesday 26th August and it was discussed at the PRINCIPLES meeting on Thursday 28th August.

DEP/SFWMD prefer not to evaluate S-356 using method proposed by Corps as the TOC Appendix A sub-team has not concluded its work on the review of Appendix A calcs and potential changes.

It appears that the FDEP/SFWMD proposal evaluates S356 Flows within the permit compliance framework (non-degradation of OFW) rather than as an element of Appendix A compliance.

The Corps is currently reviewing the FDEP/SFWMD method; however, the WQ sub-team discussed the method on Tuesday Sep 2nd and made some suggested changes to the FDEP/SFWMD proposal.



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FDEP/SFWMD Proposed Methodology FOR S-356

REASONABLE ASSURANCE (Presented to TOC Appendix A Sub-team

August 26th, 2014)

- Do not incorporate S-356 discharges directly into the annual Appendix A SRS Phosphorus compliance determination.
- During S-356 incremental testing, apply the main features of the Appendix A SRS compliance methodology through a 2-part test.
 - Part 1: A **long-term target of 9 ppb (geometric mean)**
 - the *average of either 3 or 5 years of GM annual results*
 - Part 2: An **annual maximum limit of 11 ppb (geometric mean)**
- This guidance will be provided to the S-356/G3273 incremental operations Project Delivery Team, which will develop a monitoring plan and compliance methodology for the incremental operations test period for FDEP review.



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WQ Sub-Team Discussion of FDEP/SFWMD Proposed Methodology For S-356 Reasonable Assurance (Agreed revisions to proposal as discussed in S356/G3273 WQ Sub-team meeting Sep. 2nd, 2014).

- Do not incorporate S-356 discharges directly into the annual Appendix A SRS Phosphorus compliance determination.

- During S-356 incremental testing, apply the main features of the Appendix A SRS compliance methodology through a 2-part test.

Part 1: A long-term target of 9 ppb (**geometric** Flow-Weighted Mean)
• the *average of either 3 ~~or~~ 5 years of ~~G~~FWM annual results*

Part 2: An annual maximum limit of 11 ppb (**geometric** Flow-Weighted Mean)

Specifics:

1. Annual Reporting on Fed Water Year Timeline (Oct-Sep)
2. Sampling frequency of weekly grab when flowing



Next Steps



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Next Steps

- Comments on H&H/Ops Strategy 10 Sep
- PDT Meeting 15 Oct

- Post Documents to Website

http://www.evergladesplan.org/pm/public_meetings/MeetingItem.aspx?meetingId=534



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