



HILLSBORO ASR

DAILY STATUS REPORTS



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 4, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Jon Shaw				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verraastro				
Section II: SUMMARY OF ACTIVITIES					
Met on-site at ~9:30 am. Held a Health & Safety Briefing in Personnel Bldg. and all personnel signed in on the log.					
Collected all pre-start-up data. Set system and valves in Recharge position. Reviewed procedure for sampling monitoring wells with pressure transducers. Fault on a valve position was troubleshooted. Determined to be faulty switch contact on valve M-6. Repaired contact and all faults were eliminated. Began recharging at 12:00 pm.					
Monitoring system throughout the day and started collection of recharge cycle 1 - week 1 water quality data.					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Robert Verraastro		SFWMD			
Clayton McMillan		SFWMD			
Rick Nevulis		SFWMD			
Jon Shaw		Golder Associates			
Lianne Mofienski-Ramos		Golder Associates			
Bruce Weaver		Golder Associates			
Ed Smith		Hillers			
Michael Bennett		AECOM - pressure transducers			
Section IV: KEY READINGS/ CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
80-86	Backflow pressure <7psi	No issues	3480	938-878	40
	Backflow cycle normal				
Section V: NOTES					
Minor fluctuations in key readings.					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Valve switches are sensitive/damaged			Replace valve switches on M-6 & M-8		
Section VII: ACTION LIST					
Item				By Whom	
Send Michael Bennett access to FTP site				Lianne Ramos	
Spray foam under door jam to prevent wasps				Bruce Weaver	
Clear vegetation around Quarry Pit structure				Bruce Weaver	

Hillsboro Aquifer Storage and Recovery Daily Status Report

Site:	HASR-Palm Beach County, Florida	Date Reported:	January 5, 2010		
Contractor:	Golder Associates Inc.				
Report Prepared By:	Jon Shaw				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Arrived on-site at 8:00 am. Reviewed Health & Safety Plan and all personnel signed in on the log.					
Completed collection of recharge cycle 1 - week 1 water quality data.					
Section III: PERSONNEL ON SITE REPRESENTING					
Lianne Mofienski-Ramos	Golder Associates				
Bruce Weaver	Golder Associates				
Section IV: KEY READINGS/CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
84	Backflow pressure <7psi	No issues	3334	802	41
	Backflow cycle normal				
Section V: NOTES					
Minor fluctuations in key readings. Filter flush flow=310 gpm.					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>			<i>Recommendation</i>		
Valve switches are sensitive/damaged			Replace valve switches on M-6 & M-8		
Section VII: ACTION LIST					
<i>Item</i>			<i>By Whom</i>		
Send Michael Bennett access to FTP site			Lianne Ramos		
Spray foam under door jam to prevent wasps			Bruce Weaver		
Clear vegetation around Quarry Pit structure			Bruce Weaver		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 6, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Jon Shaw				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Stopped at site ~1400 to check on operations. Held a Health & Safety Briefing in Personnel Bldg. and all personnel signed in on the log.					
Collected meter readings.					
System up and running upon arrival and departure.					
Section III: PERSONNEL ON SITE					
				<i>REPRESENTING</i>	
Jon Shaw			Golder Associates		
Neil Hancock			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
85	Backflow pressure <7psi	No issues	3312	837	43
	Backflow cycle normal-33 min interval-cycled while on-site				
Section V: NOTES					
Post filter turbidity reading 11.38 - may need adjustment. Dissolved Oxygen reading 8.02 - may need adjustment.					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>			<i>Recommendation</i>		
Valve switches are sensitive/damaged			Replace valve switches on M-6 & M-8		
Section VII: ACTION LIST					
<i>Item</i>				<i>By Whom</i>	
Send Michael Bennett, Greg Powell and Isabel Johnson access to FTP site				Lianne Ramos	
Spray foam under door jam to prevent wasps				Bruce Weaver	
Clear vegetation around Quarry Pit structure				Bruce Weaver	
Check D.O. and turbidity meters				Bruce Weaver	



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 7, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Stopped at site - 7:00 am to check on operations. Held a Health & Safety Briefing in Personnel Bldg. and all personnel signed in on the log.					
Collected meter readings.					
System up and running upon arrival and departure.					
Section III: PERSONNEL ON SITE			REPRESENTING		
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS / CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
83	Backflow pressure <7psi	No issues	3300	915	42
	Backflow cycle normal-26 min interval-cycled while on-site				
Section V: NOTES					
Post filter turbidity reading 12.26 - may need adjustment. Dissolved Oxygen reading 6.13 - may need adjustment.					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Valve switches are sensitive/damaged			Replace valve switches on M-6 & M-8		
Section VII: ACTION LIST					
Item				By Whom	
Send Michael Bennett access to FTP site				Lianne Ramos	
Spray foam under door jam to prevent wasps				Bruce Weaver	
Clear vegetation around Quarry Pit structure				Bruce Weaver	
Check D.O. and turbidity meters				Bruce Weaver	



**Hillsboro Aquifer Storage and Recovery
Daily Status Report**



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 8, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Jon Shaw				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
System up and running					
Section III: PERSONNEL ON SITE REPRESENTING.					
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/ CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
83	Backflow pressure <7	No issues	3207-3281	852	41
	Backflow cycle normal-30 min interval				
Section V: NOTES					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>			<i>Recommendation</i>		
No new items					
Section VII: ACTION LIST					
<i>Item</i>			<i>By Whom</i>		
Check D.O. and turbidity meters			Bruce Weaver/Vendor(?)		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 11, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Jon Shaw				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
Collected Week 2 water quality samples					
Met with June Mirecki to go over sampling procedures for isotope samples					
System up and running					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver	Golder Associates				
Lianne Ramos	Golder Associates				
Jon Shaw	Golder Associates				
June Mirecki	U.S. Army Corps of Engineers				
Section IV: KEY READINGS / CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
88-82	Backflow pressure <7	No issues	3346-3505	1177.5	44
	Backflow cycle normal-65 min interval	Data shows die off			
Section V: NOTES					
Turned up flow (twice) to achieve new rate of 3505 gpm at end of day.					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Several automated meters do not appear to be accurate			Have vendor return to site for calibration and adjustment		
Section VII: ACTION LIST					
Item				By Whom	
Check D.O. and turbidity meters				Bruce Weaver/Vendor(?)	
Complete isotope sampling				Weaver/Ramos	



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 19, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver/Lianne M. Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
Collected Week 3 water quality samples					
System up and running					
Section III: PERSONNEL ON SITE					
			REPRESENTING		
Bruce Weaver			Golder Associates		
Lianne Ramos			Golder Associates		
Section IV: KEY READINGS/ CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
80	Backflow pressure <7	No issues	3559	1049.5	45
	Backflow cycle normal-65 min interval	Data shows die off			
Section V: NOTES					
No issues					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Several automated meters do not appear to be accurate			Have vendor return to site for calibration and adjustment		
Section VII: ACTION LIST					
Item			By Whom		
Check D.O. and turbidity meters			Bruce Weaver/Vendor		
Complete isotope sampling			Weaver/Ramos		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 20, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver/Lianne M. Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verraastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
Collected annual water quality samples					
System up and running					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver			Golder Associates		
Lianne Ramos			Golder Associates		
Section IV: KEY READINGS / CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
81	Backflow pressure <1.7	No issues	3494	1220.6	51
	Backflow cycle normal-48 min interval				
Section V: NOTES					
No issues					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Several automated meters do not appear to be accurate			Have vendor return to site for calibration and adjustment		
Section VII: ACTION LIST					
Item				By Whom	
Check D.O. and turbidity meters				Bruce Weaver/Vendor	
Complete isotope sampling				Weaver/Ramos	



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 21, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver/Lianne M. Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
System up and running					
Activated air burst system					
Section III: PERSONNEL ON SITE					
			<i>REPRESENTING</i>		
Bruce Weaver			Golder Associates		
Lianne Ramos			Golder Associates		
Section IV: KEY READINGS / CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
81	Backflow pressure <1.8	No issues	3460	1191.3	52
	Backflow cycle normal-43 min interval				
Section V: NOTES					
4 th weekly sampling event will be conducted on January 26 and 27, 2010					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>			<i>Recommendation</i>		
Several automated meters do not appear to be accurate			Have vendor return to site for calibration and adjustment		
Section VII: ACTION LIST					
<i>Item</i>			<i>By Whom</i>		
Check D.O. and turbidity meters			Bruce Weaver/Vendor		
Complete isotope sampling			Weaver/Ramos		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 25, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
System up and running					
Activated air burst system					
Postfilter-Turb = 68.22 NTU Prefilter-turb = 3.49					
Total flow = 213266 M UGal					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/ CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
82	Backflow pressure <4.6	No issues	3555	1167.1	52
	Backflow cycle normal-50 min interval				
Section V: NOTES					
4 th weekly sampling event will be conducted on January 26 and 27, 2010					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Several automated meters do not appear to be accurate			Have vendor return to site for calibration and adjustment		
Section VII: ACTION LIST					
Item	By Whom		By		
Turn up the UV to high mode	Bruce Weaver/Vendor		2/1/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 26, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
System up and running					
Activated air burst system					
Measured DO in canal water near intake with YSI. DO = 2.60					
Cleaned turbidity meter vials Postfilter-Turb = 2.50 NTU Prefilter-turb = 2.36					
Total flow = 213272 M UGal					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver			Golder Associates		
Lianne Mokfienski Ramos			Golder Associates		
Section IV: KEY READINGS / CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
81	Backflow pressure <1.8	No issues	3524	1117.1	52
	Backflow cycle normal-27 min interval				
Section V: NOTES					
4 th weekly sampling event is being conducted on January 26 and 27, 2010					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Several automated meters do not appear to be accurate			Have vendor return to site for calibration and adjustment		
Section VII: ACTION LIST					
Item	By Whom	By			
Turn up the UV to high mode	Bruce Weaver/Vendor	2/1/2010			
Complete isotope sampling	Weaver/Ramos	1/27/2010			



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 27, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
System checkout and meter readings					
System up and running					
Activated air burst system					
It appears cleaning the turbidity meters remedied their erroneous high readings: Postfilter-Turb =1.24, Prefilter-turb =1.26					
Replaced Aluminum foil on UV's					
Total flow = 213276 M UGal					
Section III: PERSONNEL ON SITE					
			REPRESENTING		
Bruce Weaver			Golder Associates		
Lianne Ramos			Golder Associates		
Gabe Brendel			Golder Associates		
June Mirecki			U.S. Army Corps of Engineers		
Jeff Watson			River to Tap inc.		
Section IV: KEY READINGS/ CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
82	Backflow pressure <6.0	No issues	3464	1002.8	52
	Backflow cycle normal-45 min interval				
Section V: NOTES					
The 5 th weekly sampling event and the once at the end sampling event will be conducted on February 2 and 3, 2010. System transitions from recharge to storage mode will be conducted on February 3, 2010.					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Replace desiccant in turb-meters during storage phase			Order desiccant		
Section VII: ACTION LIST					
Item		By Whom		By	
Got in to UV system, left in auto mode, will adjust before next sampling event		Weaver		2/1/2010	
May need to adjust airburst timing		Weaver		2/1/2010	

Contact Hillers for transition

Weaver

1/29/2010



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	January 29, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Meter readings					
Sampling for Ecotox					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Lianne Ramos			Golder Associates		
Gabriel Brendel			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
82		No issues	3459.1	1105.5	54
Section V: NOTES					
Upon arrival, the tubing of the cooling system located at the wellhead was noted to be bursted. Measures were taken to control the pressure and the valve was closed.					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Tubing of the cooling system located at the wellhead was noted to be bursted.			Replace tubing.		
Section VII: ACTION LIST					
Item	By Whom		By		
Replace tubing of the cooling system.	Gabriel Brendel		2/1/2010		
Sampling for Ecotox Samples	Lianne Ramos, Bruce Weaver		2/1/2010		
Sampling of the 5 th Weekly Event, Once at the End Event and Isotopes	Lianne Ramos, Bruce Weaver		2/2/2010 and 2/3/2010		
System transition	Bruce Weaver		2/3/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 1, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne M Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Measured DTW at intake structure inside = 7.60 outside 6.18					
Cleaned post filter Turb-meter 2.24 NTU after leaning					
Meter readings recorded					
Fixed cooling hose on recovery pump					
Total flow = 213301 M Ugal					
Collection of Ecotox samples					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver		Golder Associates			
Lianne Ramos		Golder Associates			
Gabriel Brendel		Golder Associates			
Bob Verrastro		SFWMD			
Stan Ganthier		FDEP			
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
84	Differential pressure=4.6 33 minute interval	No issues	3426	985.5	54
Section V: NOTES					
Stan Ganthier (FDEP) and Bob Verrastro (SFWMD) at the site for a compliance inspection concerning the CERPRA permit. Stan Ganthier suggested we look in to putting up a turbidity curtain or temp dam if necessary					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Unable to put UV in medium auto mode			Talk with tech support again		
Section VII: ACTION LIST					
Item	By Whom	By			
Clean staff gauge in quarry	Bruce Weaver	2/4/2010			
Sampling of the 5 th Weekly Event, Once at the End Event and Isotopes	Lianne Ramos, Bruce Weaver	2/2/2010 and 2/3/2010			
Ecotox sampling	Lianne Ramos	2/3/2010			

System transition	Bruce Weaver	2/3/2010
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Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 2, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWM D PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Measured DTW at intake structure inside = 7.55 outside 6.09					
Set UV to medium at 8:43, At 14:58 set UV to high, set UV back to auto at 15:50					
Meter readings recorded					
Switched airburst to auto mode					
Total flow = 213305 M Ugal					
Sampling of the 5 th Weekly event, Monthly event and Once at the end Event.					
Conducted additional testing for UV effectiveness.					
Section III: PERSONNEL ON SITE		REPRESENTING			
Bruce Weaver	Golder Associates				
Lianne Ramos	Golder Associates				
Alex Stojanovic	Hillers Electrical Engineering				
Rick Nevulis	SFWM D				
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
84	Differential pressure=4.2 32 minute interval	No issues	3394	962.8	54
Section V: NOTES					
Alex (Hillers) and Rick Nevullis (SFWM D) at the site to repair telemetry system. Golder conducted additional analysis evaluating the efficiency of the UV system concerning medium and high intensity.					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>			<i>Recommendation</i>		
Section VII: ACTION LIST					
Item	By Whom	By			
Clean staff gauge in quarry	Bruce Weaver	2/4/2010			
Ecotox sampling	Bruce Weaver	2/3/2010			

System transition	Bruce Weaver	2/3/2010
Storage Weekly Event	Lianne Ramos, Bruce Weaver	2/9/2010



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 3, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Recharge Cycle 1				
SFWMD PM	Bob Verraastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Measured DTW at intake structure inside = 8.05 outside 6.61					
UV has no issues					
Meter readings recorded					
Called for tech support on the airburst system. System is set to go off once a day at 3:00.					
Total flow = 213311 M Ugal					
Cleaned DO probe in intake structure, after cleaning DO =4.77					
Turned off Recharge phase at 12:30. The ASR is in storage mode					
Drained filter system after speaking to Jerry Weynand (Amiad)					
Shut all valves and sluice gates					
Section III: PERSONNEL ON SITE					
		REPRESENTING			
Bruce Weaver		Golder Associates			
Section IV: KEY READINGS/CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
84	Differential pressure=3.5 40 minute interval	No issues	3420	946.4	56
Section V: NOTES					
Airburst system is set to go off once a day.					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>			<i>Recommendation</i>		
Some fouling on the intake screen			Next recharge phase, set system to go off every 8 hours to keep screen from fouling.		
Section VII: ACTION LIST					
<i>Item</i>	<i>By Whom</i>		<i>By</i>		
Clean staff gauge in quarry	Bruce Weaver		2/4/2010		
Clean intake screen	Bruce Weaver		2/8/2010		
Change DO probe	Bruce Weaver		2/15/2010		
Replace gasket on UV filters	Bruce Weaver		2/15/2010		



**Hillsboro Aquifer Storage and Recovery
Daily Status Report**



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 8, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility - Operation & Maintenance				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Drained water from the system to the quarry					
Filled UV system with diluted (1/4) chlorine via siphon to bottom of unit					
Cleaned staff gauges in canal and quarry					
Cleaned intake screen with brush					
Total flow = 213311 M Ugal					
Sprayed wasps around personnel building					
all valves and sluice gates in storage mode					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	946.4	16.0
Section V: NOTES					
Airburst system is set to go off once a day.					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Contact vendor or Hillers Electrical to have them repaired before upcoming recovery mode.		
Section VII: ACTION LIST					
Item	By Whom	By			
Change DO probe	Bruce Weaver	2/24/2010			
Replace gasket on UV filters	Bruce Weaver	2/24/2010			
Replace desiccant in turbidity meters	Bruce Weaver	2/24/2010			
Lubricate sluice gate and valves	Bruce Weaver	2/24/2010			
First Storage Weekly Event	Lianne Ramos, Bruce Weaver	2/10/2010			



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 10, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Drained water from the system to the quarry					
Checked chlorine level in UV system.					
Added more chlorine to UV system					
all valves and sluice gates in storage mode					
Total flow = 213311 M Ugal					
Conducted the 1 st weekly sampling event during storage phase.					
Section III: PERSONNEL ON SITE					
			REPRESENTING		
Bruce Weaver		Golder Associates			
Lianne Mokfienski Ramos		Golder Associates			
Section IV: KEY READINGS/CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	1.81	16.0
Section V: NOTES					
Weekly sampling done by Weaver/Ramos					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>		<i>Recommendation</i>			
Some of the valve switches are in need of repair		Contact vendor or Hillers Electrical to have them repaired before upcoming recovery mode.			
Section VII: ACTION LIST					
<i>Item</i>	<i>By Whom</i>		<i>By</i>		
Change DO probe	Bruce Weaver		2/24/2010		
Replace gasket on UV filters	Bruce Weaver		2/24/2010		
Replace desiccant in turbidity meters	Bruce Weaver		2/24/2010		
Lubricate sluice gate and valves	Bruce Weaver		2/24/2010		
Conduct 2 nd weekly sampling event during storage phase	Bruce Weaver / Lianne Ramos		2/16/2010 and 2/17/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 16, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Checked chlorine level in UV system.					
All valves and sluice gates in storage mode					
Total flow = 213311 M Ugal					
Conducted the 2 nd weekly sampling event during storage phase.					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver			Golder Associates		
Lianne Mokfienski Ramos			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	0.63	16.0
Section V: NOTES					
Weekly sampling done by Weaver/Ramos					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Contact vendor or Hillers Electrical to have them repaired before upcoming recovery mode.		
Section VII: ACTION LIST					
<i>Item</i>	<i>By Whom</i>		<i>By</i>		
Change DO probe	Bruce Weaver		2/24/2010		
Replace gasket on UV filters	Bruce Weaver		2/24/2010		
Replace desiccant in turbidity meters	Bruce Weaver		2/24/2010		
Lubricate sluice gate and valves	Bruce Weaver		2/24/2010		
Conduct 3 rd weekly sampling event during storage phase	Bruce Weaver / Lianne Ramos		2/23/2010 and 2/24/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 17, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Checked chlorine level in UV system.					
Drained UV system of chlorinated water, rinsed disinfection chamber with normal liquid medium used in the system and drained once again as per the OM manual. Closed all valves once again.					
Cleaned UV sensor and quartz window					
Cleaned post filter turbidity meter vial. Before= 14.3 after =0.36					
Sprayed Round-up on weeds around ASR					
All valves and sluice gates closed					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	0.53	16.0
Section V: NOTES					
Weekly sampling done by Weaver/Ramos					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Contact vendor or Hillers Electrical to have them repaired before upcoming recovery mode.		
Section VII: ACTION LIST					
Item	By Whom	By			
Change DO probe	Bruce Weaver	2/24/2010			
Replace gasket on UV filters	Bruce Weaver	2/24/2010			
Replace desiccant in turbidity meters	Bruce Weaver	2/24/2010			
Lubricate sluice gate and valves	Bruce Weaver	2/24/2010			
Conduct 3 rd weekly sampling event during storage phase	Bruce Weaver / Lianne Ramos	2/23/2010 and 2/24/2010			



**Hillsboro Aquifer Storage and Recovery
Daily Status Report**



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 23, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver / Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Did a manual bubble burst					
Spoke with Bob Verrastro about having the valve switches fixed before recharge phase.					
Ordered desiccant for turbidity meters					
Conduct 3 rd weekly sampling event during storage phase					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver			Golder Associates		
Lianne Mokfienski Ramos			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	0.33	16.0
Section V: NOTES					
Weekly sampling done by Weaver/Ramos					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Contact vendor or Hillers Electrical to have them repaired before upcoming recovery mode.		
Section VII: ACTION LIST					
Item	By Whom	By			
Change DO probe	Bruce Weaver	2/24/2010			
Replace gasket on UV filters	Bruce Weaver	2/24/2010			
Replace desiccant in turbidity meters	Bruce Weaver	2/24/2010			
Lubricate sluice gate and valves	Bruce Weaver	2/24/2010			



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	February 24, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Checked oil in compressor motor					
Spoke with Foxboro tech support about the conductivity meter. They are going to overnight a replacement unit due to a "bad chip" problem.					
Foxboro suggested a new sensor with a higher range					
Replaced DO probe before = 0.09 After= 2.31					
Lubricated sluice gate stems					
Sprayed wasp on personnel building					
Sprayed Round-up on the weeds					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	0.41	16.0
Section V: NOTES					
Conductivity meter needs to be replaced					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Contact vendor or Hillers Electrical to have the valve switches repaired before upcoming recovery mode.		
Section VII: ACTION LIST					
Item	By Whom		By		
Change conductivity meter	Bruce Weaver/Hillers		3/3/2010		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
Replace desiccant in turbidity meters	Bruce Weaver		3/3/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 3, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Activated bubble burst on intake structure					
Spoke with Foxboro tech support about the conductivity meter again. They are going to overnight a replacement meter also.					
Foxboro will ship new sensor with a higher range up to 20,000 µS/cm.					
Replaced Desiccants in turbidity meters.					
Ordered flange O-rings for UV canisters					
Sampled the 4 th Weekly and Once at the End Event for Storage Phase.					
Fixed door on the personnel building					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	0.38	16.0
Section V: NOTES					
Conductivity meter and sensor need to be replaced					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Contact vendor or Hillers Electrical to have the valve switches repaired before upcoming recovery mode.		
Section VII: ACTION LIST					
Item	By Whom		By		
Change conductivity meter	Bruce Weaver/Hillers		3/8/2010		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
System transition	Bruce Weaver		3/8/2010		
1 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos		3/9/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 4, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Storage Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Replaced conductivity meter					
Replaced conductivity sensor with one with a higher range up to 20,000 µS/cm.					
Flow due to artesian pressure to quarry = -1019 Conductivity = 677 and Turbidity = 0.43					
Section III: PERSONNEL ON SITE					
			REPRESENTING		
Bruce Weaver		Golder Associates			
Gabe Brendel		Golder Associates			
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	0.0	0.47	16.0
Section V: NOTES					
Start recovery phase Monday					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Contact vendor or Hillers Electrical to have the valve switches repaired before upcoming recovery mode.		
Section VII: ACTION LIST					
Item	By Whom		By		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 8, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Transition from Storage to Recovery Cycle 1				
SFWMD PM	Bob Verraastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Secured a tarp with cargo strap on the outfall culvert pipe to wetland then placed a ½ inch plywood board in front of tarp and secured it.					
Difficulty with valve permissive switches. Switch M-8 was by-passed					
Difficulty with check valve permissive switch, pump unable to get past start up mode. Switch unstuck					
Pump shutting off every 10 min. Conductivity meter sending wrong signal. Conductivity meter by-passed					
Conductivity meter reading too high. Tech support called 1199= Before 626 = After					
Turbidity meter tech support remedied problem in meter.					
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum. Meter not operational					
Sampled First Flush Event and part of 1st Weekly Event for Recovery Phase.					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver and Lianne Mokfienski Ramos			Golder Associates		
Bob Verraastro, Rick Nevalis and Clayton McMillan			SFWMD		
Jon Shaw			PBS & J		
Ed Smith, Sam Chamress and Alex Stojanovial			Hillers Electrical Engineering		
Stan Ganthier, Ben Fisch and Fred Rapach			FDEP		
Section IV: KEY READINGS/ CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	3476	684	84
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		

Section VII: ACTION LIST		
<i>Item</i>	<i>By Whom</i>	<i>By</i>
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers	3/11/2010
Replace gasket on UV filters	Bruce Weaver	Next recharge phase
2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/16/2010



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 9, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Transition from Storage to Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Sampled the part of 1st Weekly for Recovery Phase.					
Conductivity meter Tech support called to get scaling range for Hillers					
Samples for Bioassay, Cerpra Permit					
Section III: PERSONNEL ON SITE					
			REPRESENTING		
Bruce Weaver and Lianne Mokfienski Ramos			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Filters</i>	<i>UV</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
0.0	Differential pressure=0.0 0.0 minute interval	System off	3476	763	82
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
<i>Description of Problem</i>			<i>Recommendation</i>		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
<i>Item</i>	<i>By Whom</i>		<i>By</i>		
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers		3/11/2010		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender		Next recharge phase		
2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos		3/16/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 10, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Transition from Storage to Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Adjusted flow. Before =3435 After= 3501					
Conductivity meter Tech support called to get range of conductivity. Hillers contacted					
Removed iguana from around DO meter probe					
Some foaming noticed in take structure.					
Measured conductivity with YSI = 781 inline meter =842					
Measured turbidity portable meter = 0.77 inline meter =0.18					
Put flow totalizer in reverse flow mode = 349237 M at 10:35 Forward flow still reads 213311					
Removed tarp and plywood from quarry culvert					
Sampled for isotopes					
Section III: PERSONNEL ON SITE					
			REPRESENTING		
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	3501	842	79
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
Item	By Whom		By		
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers		3/11/2010		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender		Next recharge phase		

2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/16/2010
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**Hillsboro Aquifer Storage and Recovery
Daily Status Report**



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 11, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Transition from Storage to Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Conductivity meter Tech support called to get change range of conductivity. Adjusted scale by one order of magnitude. Hillers contacted.					
Section III: PERSONNEL ON SITE					
			REPRESENTING		
Bruce Weaver			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	3515	933	80
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
Item	By Whom		By		
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers		3/17/2010		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender		Next recharge phase		
2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos		3/16/2010		



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 15, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Ecotox sampling (CERPRA acute bioassay)					
Jon Shaw inspecting valve switches					
Inspected turbidity meter. No more turbulent/bubbles in vial					
No alarms on the control board					
Measured 800 feet downstream in the Hillsboro Canal. Marked area with stakes.					
Measured the width of canal = 80.0 ft.					
Soundings were taken at 20ft =6.6, 40ft =9.2, 60ft = 7.5 (measured from the south)					
To estimate flow speed three oranges were timed as they transited 100 ft distance. The average time was 5:06					
Totalizer = 349263 M					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver / Lianne Mokfienski Ramos			Golder Associates		
Jon Shaw			PBS&J		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	3505	1366	79
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
Item	By Whom	By			
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers	3/17/2010			
Replace gasket on UV filters	Bruce Weaver	Next recharge phase			
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender	Next recharge phase			

2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/16/2010
Valve switches need repair	Jon Shaw	Next recharge phase



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 16, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Weekly Recovery sampling completed					
Measured conductivity with the YSI. YSI = 1386 conductivity inline ASR = 1490					
Measured turbidity with portable meter = 0.39 turbidity inline =0.41					
Measured conductivity at the outfall to the canal and at the 800ft mixing zone(MZ) from the outfall mark. Outfall = 870 800MZ =709					
Minor foam in intake structure.					
Totalizer = 349269M					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver / Lianne Mokfienski Ramos			Golder Associates		
Section IV: KEY READINGS/CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	3498	1500	79
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
Item	By Whom	By			
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers	3/17/2010			
Replace gasket on UV filters	Bruce Weaver	Next recharge phase			
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender	Next recharge phase			
2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/16/2010			

Valve switches need repair

Jon Shaw

Next recharge phase



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 17, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Measured conductivity with the YSI. YSI = 1418 conductivity inline ASR = 1580					
Measured turbidity with portable meter = 0.40 turbidity inline =0.43					
Measured conductivity at the outfall to the canal and at the 800ft from the outfall. (mixing zone=MZ) Outfall = 870 800ft MZ =709					
Minor foam in intake structure.					
Attached staff gauge in the canal to the wall of the in-take structure.					
Cleaned staff gauges in canal and quarry.					
Remarked the 800ft mark with orange stakes.					
Totalizer = 349272M					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver		Golder Associates			
Section IV: KEY READINGS/ CONDITIONS					
Intake Pump Pressure (PSI)	Filters	UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System off	3497	1518	80
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
Item	By Whom		By		
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers		3/17/2010		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender		Next recharge phase		

2 nd Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/16/2010
Valve switches need repair	Jon Shaw	Next recharge phase



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 22, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Measured 800 meters downstream from the outfall structure					
Marked the 800M mark with orange stakes.					
Measured conductivity with the YSI. YSI = 2048 conductivity inline ASR = 2252					
Conductivity at the outfall = 1618					
Conductivity 800M downstream from the outfall = 943					
Completed Annual sampling					
Totalizer = 349297M					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver and Lianne Mokfienski Ramos				Golder Associates	
Section IV: KEY READINGS/ CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Conductivity 800M Umhos/cm</i>	<i>DO</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
0.0	943	7.98	3487	2048	80
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
<i>Item</i>	<i>By Whom</i>		<i>By</i>		
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers		Next recharge phase		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender		Next recharge phase		
3rd Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos		3/31/2010		

Valve switches need repair	Jon Shaw	Next recharge phase
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Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 23, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-W010				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Slight sulfur smell near outfall structure					
Conductivity with the YSI = 2248 conductivity inline ASR = 2406					
Conductivity at the outfall = 1274					
Conductivity 800M downstream from the outfall = 864					
Completed Weekly sampling					
Isotope sampling					
Totalizer = 349304M					
Section III: PERSONNEL ON SITE					
				REPRESENTING	
Bruce Weaver and Lianne Mokfienski Ramos			Golder Associates		
Section IV: KEY READINGS/ CONDITIONS					
<i>Intake Pump Pressure (PSI)</i>	<i>Conductivity 800M Umhos/cm</i>	<i>DO</i>	<i>Flow (GPM)</i>	<i>Conductivity Umhos/cm</i>	<i>Wellhead Pressure (PSI)</i>
0.0	864	7.87	3486	2248	80
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
<i>Item</i>	<i>By Whom</i>	<i>By</i>			
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers	Next recharge phase			
Replace gasket on UV filters	Bruce Weaver	Next recharge phase			
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender	Next recharge phase			
3rd Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/31/2010			

Valve switches need repair

Jon Shaw

Next recharge phase



Hillsboro Aquifer Storage and Recovery Daily Status Report



Site:	HASR-Palm Beach County, Florida	Date Reported:	March 24, 2010		
Contractor:	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering				
Report Prepared By:	Bruce Weaver and Lianne Mokfienski Ramos				
Contractor Proj. No.	C-C13401P-WO10				
Section I: PROJECT IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility				
Site Work	Cycle Testing - Recovery Cycle 1				
SFWMD PM	Bob Verrastro				
Section II: SUMMARY OF ACTIVITIES					
Reviewed HASP and signed log					
Slight sulfur smell near outfall structure					
Conductivity with the YSI = 2274 conductivity inline ASR = 2510					
Conductivity at the outfall = 1263					
Conductivity 800M downstream from the outfall = 860 Umhos/cm					
Measured distance from the ASR outfall to the bridge = 1292.3 Meters					
Brushed intake screen					
Sprayed weed killer on weeds					
Activated manual bubble burst					
Totalizer = 349308M					
Section III: PERSONNEL ON SITE REPRESENTING					
Bruce Weaver and Lianne Mokfienski Ramos			Golder Associates		
Section IV: KEY READINGS/ CONDITIONS					
Intake Pump Pressure (PSI)	Conductivity 800M Umhos/cm	DO	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
0.0	86	7.83	3499	2274	80
Section V: NOTES					
System is in recovery mode					
Section VI: SIGNIFICANT PROBLEM					
Description of Problem			Recommendation		
Some of the valve switches are in need of repair			Jon Shaw to contact valve company		
Section VII: ACTION LIST					
Item	By Whom		By		
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers		Next recharge phase		
Replace gasket on UV filters	Bruce Weaver		Next recharge phase		
2 nd Turbidity meter near conductivity meter may need to be refitted to side of pipe to avoid vacuum.	Bruce Weaver/vender		Next recharge phase		

3rd Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/31/2010
Valve switches need repair	Jon Shaw	Next recharge phase