

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

**Stormwater Quality Report  
City of Glendale, Arizona**

**Fourth Quarter 2004**

**July 1, 2004**

# Stormwater Quality Report

Fourth Quarter, Sampling Year 2004

April 1, 2004 through June 30, 2004

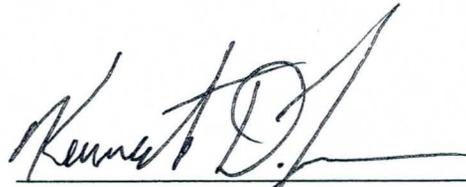
For

**City of Glendale, Arizona**

July 1, 2004

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Stormwater Quality Report  
City of Glendale, Arizona

Fourth Quarter 2004

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## Introduction

The U.S. Geological Survey operates and maintains five land based stormwater monitoring stations for the City of Glendale for compliance with their National Pollutant Discharge Elimination System (NPDES) stormwater discharge permit. This report details stormwater sampling and equipment upkeep for the five Glendale stations for the period from April 1, 2004 through June 30, 2004.

During storm events, only representative storm events are sampled. A representative storm event has occurred when the following criteria have been met and there has been no rainfall greater than 0.10 inches within the previous 72 hours.

<b>GLENDALE</b>	<b>RAINFALL</b>	<b>DURATION</b>
<b>WINTER</b> (October – March)	<b>0.2 – 0.7 INCHES</b>	<b>5.2 – 15.6 HOURS</b>
<b>SUMMER</b> (April – September)	<b>0.2 – 0.8 INCHES</b>	<b>2.2 – 6.5 HOURS</b>

Storm duration is defined as the time period from start to end of a sustained rainfall. Sustained rainfall is defined as rainfall that continues without a gap of greater than 150 consecutive minutes. If a gap greater than 150 consecutive minutes occurs, then the rainfall is considered to be from a separate storm event. Summer months are April through September and winter months are October through March.

Table 1 of this report, lists storm events with rainfall greater than 0.20 inches of rain (Glendale minimum summer rainfall criteria). Table 1 also specifies reasons why samples were not collected and/or analyzed. Table 2 of this report, summarizes data retrievals from the sites.

**TABLE 1**  
**SUMMARY OF GLENDALE STORM EVENTS**  
**WITH RAINFALL > 0.20 INCHES BUT NOT SAMPLED**  
**APRIL 1, 2004 – JUNE 30, 2004**

<b>SITE</b>	<b>DATE</b>	<b>RAIN</b> (inches)	<b>REMARKS</b>
BUTLER	04/02/04	1.25	DURATION TOO LONG, TOO MUCH RAIN
CITRUS	04/02/04	1.44	DURATION TOO LONG, TOO MUCH RAIN
INDPARK	04/02/04	1.16	DURATION TOO LONG, TOO MUCH RAIN
OLIVE	04/02/04	1.66	DURATION TOO LONG, TOO MUCH RAIN

**TABLE 2**  
**SUMMARY OF DATA RETRIEVALS**  
**APRIL 1, 2004 – JUNE 30, 2004**

SITE	DATE	RETRIEVAL TYPE
ARROW	05/05/04	Onsite
ARROW	05/25/04	Onsite
ARROW	06/23/04	Onsite

BUTLER	04/05/04	Onsite
BUTLER	04/20/04	Onsite
BUTLER	05/05/04	Onsite
BUTLER	05/25/04	Onsite

CITRUS	04/05/04	Onsite
CITRUS	04/19/04	Onsite
CITRUS	05/05/04	Onsite
CITRUS	05/25/04	Onsite

IND PARK	04/05/04	Onsite
IND PARK	04/09/04	Onsite
IND PARK	04/20/04	Onsite
IND PARK	05/05/04	Onsite
IND PARK	05/25/04	Onsite
IND PARK	06/23/04	Onsite

OLIVE	04/02/04	Phone - Storm
OLIVE	04/09/04	Phone - Weekly
OLIVE	04/10/04	Phone - Storm
OLIVE	04/16/04	Phone - Weekly
OLIVE	04/23/04	Phone - Weekly
OLIVE	04/30/04	Phone - Weekly
OLIVE	05/07/04	Phone - Weekly
OLIVE	05/14/04	Phone - Weekly
OLIVE	05/21/04	Phone - Weekly
OLIVE	05/28/04	Phone - Weekly
OLIVE	06/04/04	Phone - Weekly
OLIVE	06/11/04	Phone - Weekly
OLIVE	06/18/04	Phone - Weekly
OLIVE	06/25/04	Phone - Weekly

## **Maintenance Summary**

This section details maintenance activities and problems that occurred from April 1 through June 30, 2004. All water quality samplers are SIGMA 900 MAX models with the exception of the Olive stormwater station, which uses an ISCO model 3700 sampler.

### **ARROW**

Sampler was reinstalled on April 20. Intake tubing was replaced on April 20. The sampler was reset on April 20, May 5, 25, and June 23. The phone battery was replaced on April 20, May 5, 25, and June 23. All sampler tubing and collection bottles were cleaned on April 20. Pulled data with the DTU unit on May 5, 25 and June 23. Sampler was programmed for summer sampling criteria on April 20. Sampler clock was reset on May 26.

### **BUTLER**

The sampler was reset on April 1, 20, May 5, 25, and June 23. All sampler tubing and collection bottles were cleaned on April 5, 20. Pulled data with the DTU unit on April 5, 20 and May 5, 25. Sampler battery was replaced on June 23. Sampler was reprogrammed for summer sampling criteria on April 1.

### **CITRUS**

The sampler was reset on April 1, 5, 19, May 5, 25, and June 23. All sampler tubing and collection bottles were cleaned on April 5. Pulled data with the DTU unit on April 5, 19 and May 5, 25. Sampler was reprogrammed for summer sampling criteria on April 1.

### **INDUSTRIAL PARK**

The sampler was reset on April 1, 5, 9, 20, May 5, 25, and June 23. All sampler tubing and collection bottles were cleaned on April 5, 20. Pulled data with the DTU unit on April 5, 9, 20, May 5, 25, and June 23. Sampler battery was replaced on April 1. Sampler was reprogrammed for summer sampling criteria on April 1.

### **OLIVE**

All sampler tubing and collection bottle were cleaned on April 5, 9, 20. The sampler was reset on April 5, 9, 20. The data logger battery was replaced on April 1, 20, May 5, and June 16. Installed solar panel and regulator for CR-10 datalogger on June 16.

## **Data compiled for April 1 through June 30, 2004**

The remainder of this report contains data. The following data are included:

- Rainfall tables for five Glendale NPDES raingages.
- Rainfall data for four Glendale ALERT raingages.
- Operation and maintenance log sheets.

**Rainfall Data Tables  
(NPDES raingages)**

Gauge Rainfall (inches)													
Gage Number		ARROW											
Location		Skunk Creek near 79th Avenue											
		July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004
1			0.06								Sampler		
2										0.05	sent for		
3								0.02		0.01	Repair		
4				0.04						0.05	"		
5											"		
6											"		
7											"		
8										Sampler	"		
9				0.28						sent for	"		
10					0.93					Repair	"		
11						0.04	0.21			"	"		
12						0.88				"	"		
13						0.15				"	"		
14			1.13							"	"		
15			0.24							"	"		
16										"	"		
17										"	Sampler		
18										"	sent for		
19			0.40							"	Repair		
20										"			
21										"			
22								0.29	0.08	"			
23									0.81	"			
24				0.03						"			
25										"			
26							0.05			"			
27			0.22							"			
28										"			
29										Sampler			
30										sent for			
31										Repair			
Month Total		0.00	2.05	0.35	0.93	1.07	0.26	0.31	0.89	0.11	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		BUTLER											
Location		56th Drive and Orchid Lane											
		July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004
	1		0.07			0.13					0.03		
	2									0.08	1.25		
	3									0.01			
	4									1.41			
	5												
	6												
	7												
	8												
	9												
	10				0.30						0.07		
	11					0.03	0.28			0.06			
	12					1.57							
	13		0.06			0.02							
	14		1.41										
	15												
	16												
	17												
	18												
	19		0.29										
	20	0.15											
	21							0.02					
	22							0.40	0.06				
	23							0.02	1.50				
	24			0.02				0.01					
	25							0.06					
	26						0.05						
	27		0.06										
	28												
	29	0.90											
	30												
	31												
	Month Total	1.05	1.89	0.02	0.30	1.75	0.33	0.51	1.56	1.56	1.35	0.00	0.00

Gauge Rainfall (inches)													
Gage Number	CITRUS												
Location	Grovers at 71st Avenue												
	July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004	
1		0.10			0.02								
2									0.04	1.44			
3									0.01				
4									0.34				
5													
6													
7													
8													
9			0.11										
10				1.09									
11					0.05	0.17							
12					0.30								
13					0.18				0.06				
14		1.26											
15													
16													
17													
18													
19		0.32											
20													
21													
22							0.27	0.08					
23								0.81					
24													
25													
26		0.04				0.05							
27		0.17											
28													
29	0.47												
30	0.01												
31													
Month Total	0.48	1.88	0.11	1.09	0.55	0.22	0.27	0.89	0.45	1.44	0.00	0.00	

Gauge Rainfall (inches)													
Gage Number	INDUSTRIAL PARK												
Location	New River north of Glendale Avenue												
	July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004	
1		0.04								0.05			
2									0.07	1.16			
3									0.01				
4									1.05	0.03			
5													
6			0.04										
7										0.10			
8													
9			0.10							0.16			
10				0.23						0.07			
11					0.04	0.26			0.04				
12					0.38								
13									0.03				
14		1.35											
15													
16													
17													
18													
19		0.20											
20													
21	0.02												
22							0.25	0.12					
23								0.82					
24	0.05		0.03				0.02						
25													
26						0.04							
27													
28													
29	0.39												
30	0.01												
31													
Month Total	0.47	1.59	0.17	0.23	0.42	0.30	0.27	0.94	1.20	1.57	0.00	0.00	

Gauge Rainfall (inches)													
Gage Number	OLIVE												
Location	Olive and 67th Avenue												
	July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004	
1		0.11			0.10					0.04			
2									0.10	1.66			
3									0.02				
4									1.56				
5													
6													
7										0.09			
8													
9			0.36							0.02			
10				0.39						0.17			
11					0.07	0.39			0.04				
12					1.89								
13		0.02			0.01				0.03				
14		2.35											
15													
16													
17													
18													
19		0.50											
20	0.30												
21	0.01												
22							0.55	0.19					
23							0.04	1.71					
24			0.03				0.01						
25							0.05						
26						0.06							
27		0.25						0.03					
28													
29	--												
30													
31													
Month Total	0.31	3.23	0.39	0.39	2.07	0.45	0.65	1.93	1.75	1.98	0.00	0.00	

**Rainfall Data Tables  
(ALERT raingages)**

Gauge Rainfall (inches)													
Gage Number		4785											
Location		Butler Park											
		July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004
	1		0.04			0.08							
	2									0.04	0.94		
	3									0.04			
	4								---	0.98			
	5									0.04			--
	6												
	7												
	8												
	9												
	10				0.20						0.04		
	11					0.04	0.16						
	12					1.10	0.04			0.04			
	13					0.04							
	14		1.02										
	15		0.04										
	16												
	17												
	18												
	19		0.24										
	20	0.08											
	21												
	22							0.28	0.04				
	23							0.04	1.02				
	24												
	25					---		0.04					
	26					---	0.04						
	27		0.04										
	28												
	29	0.59											--
	30	0.04											
	31									0.04			
	Month Total	0.71	1.38	0.00	0.20	1.26	0.24	0.36	1.06	1.18	0.98	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5505											
Location		New River at Glendale Avenue											
		July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004
	1		0.04								0.04		
	2									0.04	0.94		
	3									0.04			
	4									1.06			
	5												
	6												
	7										0.04		
	8												
	9										0.04		
	10				0.16						0.04		
	11												
	12					0.35	0.04						
	13					0.04				0.04			
	14		0.12										
	15		0.04										
	16												
	17												
	18												
	19		0.12										
	20												
	21												
	22							0.04					
	23								0.24				
	24	0.04							0.39				
	25												
	26												
	27												
	28												
	29	0.08											
	30	0.04											
	31												
	Month Total	0.16	0.32	0.00	0.16	0.39	0.04	0.04	0.63	1.18	1.10	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5520											
Location		ACDC at 67th Avenue											
		July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004
	1		0.04										
	2										1.02		
	3									0.04			
	4									0.83			
	5												
	6												
	7												
	8												
	9												
	10				0.47								
	11					0.04	0.20			0.12			
	12					0.75							
	13					0.04							
	14		1.26										
	15												
	16												
	17												
	18												
	19		0.28										
	20												
	21												
	22							0.24	0.04				
	23								0.79				
	24												
	25												
	26		0.12				0.04						
	27		0.04										
	28												
	29	0.55											
	30												
	31												
	Month Total	0.55	1.74	0.00	0.47	0.83	0.24	0.24	0.83	0.99	1.02	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5595											
Location		New River and Bell Road											
		July 2003	August 2003	September 2003	October 2003	November 2003	December 2003	January 2004	February 2004	March 2004	April 2004	May 2004	June 2004
	1		0.04										
	2									0.04	0.75		
	3							--					
	4			0.04				--		0.31	0.08		
	5												
	6												
	7												
	8									0.08			
	9												
	10				0.87								
	11					0.04	0.12						
	12					0.51							
	13					0.12				0.04			
	14		0.91										
	15												
	16												
	17												
	18												
	19		0.28										
	20												
	21												
	22							0.20	0.04	0.04			
	23								0.51				
	24												
	25												
	26						0.04						
	27		0.16										
	28												
	29	0.31											
	30												
	31												
	Month Total	0.31	1.39	0.04	0.87	0.67	0.16	0.20	0.55	0.51	0.83	0.00	0.00

**Maintenance Log Sheets**

## STORMWATER O&M LOG SHEET

SITE	ARROW		DATE	4/20/04	
ARRIVAL TIME	0820	DEPARTURE TIME	0930	SERVICED BY	HENAUER/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.0 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.

1 REINSTALLED REPAIRED SAMPLER, REPLACED INTAKE

2 TUBING, DROPPED OFF CLEAN BOTTLES, CLEANED

3 INTAKE & TUBING, CHANGED PHONE BATTERY, PROGRAMMED FOR SUMMER SAMPLING, RESET SAMPLER.

# STORMWATER O&M LOG SHEET

SITE	ARROW		DATE	5/5/04	
ARRIVAL TIME	1120	DEPARTURE TIME	1140	SERVICED BY	KASPOR/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA W/DTU, RESET SAMPLER, CHANGED
2	PHONE BATTERY
3	

## STORMWATER O&M LOG SHEET

SITE	ARROW		DATE	5/25/04	
ARRIVAL TIME	1015	DEPARTURE TIME	1035	SERVICED BY	KASPOR/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.1 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA W/DTM, CHANGED PHONE BATTERY,
2	RESET SAMPLER.
3	

## STORMWATER O&M LOG SHEET

SITE	ARROW		DATE	5/26/04		
ARRIVAL TIME	0905	DEPARTURE TIME	0915		SERVICED BY	HEMAUER
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (Intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	RESET SAMPLER CLOCK
2	
3	

# STORMWATER O&M LOG SHEET

SITE	ARROW			DATE	6/23/04	
ARRIVAL TIME	0955	DEPARTURE TIME	1020	SERVICED BY	HEMAUER	
SAMPLER - MODEL NUMBER				SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13.1 volts
SOLAR PANEL CLEAN	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CELLULAR ANTENNA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
PHONE TONE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
CALIBRATED DEPTH SENSOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA, RESET SAMPLER, CHANGED PHONE BATTERY
2	
3	DTU CELL #7

# STORMWATER O&M LOG SHEET

SITE	BUTLER		DATE	4/1/04	
ARRIVAL TIME	0950	DEPARTURE TIME	0955		SERVICED BY
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.8 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REPROGRAMMED SAMPLER FOR SUMMER
2	SAMPLING, RESET SAMPLER.
3	

# STORMWATER O&M LOG SHEET

SITE	BUTLER		DATE	4/5/04	
ARRIVAL TIME	1140	DEPARTURE TIME	<del>1150</del>	SERVICED BY	FOSSUM/CONDELLO
SAMPLER - MODEL NUMBER			SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.6 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED INTAKE + TUBING, DROPPED OFF
2	CLEAN BOTTLES, RESET SAMPLER, PULLED
3	DATA w/ DTU.

## STORMWATER O&M LOG SHEET

SITE	BUTLER		DATE	4/20/04	
ARRIVAL TIME	1005	DEPARTURE TIME	1015	SERVICED BY	FOSSUM/HEMAUER
SAMPLER - MODEL NUMBER			SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (Intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED BOTTLES, INTAKE + TUBINGS, PULLED DATA,
2	RESET SAMPLER
3	

# STORMWATER O&M LOG SHEET

SITE	BUTLER		DATE	5/5/04	
ARRIVAL TIME	1015	DEPARTURE TIME	1030	SERVICED BY	KASPOR/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input checked="" type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA w/DTU, RESET SAMPLER.
2	
3	

## STORMWATER O&M LOG SHEET

SITE	BUTLER		DATE	5/29/04	
ARRIVAL TIME	1150	DEPARTURE TIME	1210		SERVICED BY
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA w/DTU, RESET SAMPLER.
2	
3	

## STORMWATER O&M LOG SHEET

SITE	BUTLER		DATE	6/23/04	
ARRIVAL TIME	1050	DEPARTURE TIME	1100	SERVICED BY	HEMAUER
SAMPLER - MODEL NUMBER			SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.9 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.
1 RESET SAMPLER, CHANGED SAMPLER BATTERY
2
3

# STORMWATER O&M LOG SHEET

SITE	CITRUS		DATE	4/1/04	
ARRIVAL TIME	1005	DEPARTURE TIME	1010	SERVICED BY	FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REPROGRAMMED SAMPLER FOR SUMMER SAMPLING
2	RESET SAMPLER.
3	

## STORMWATER O&M LOG SHEET

SITE	CITRUS			DATE	4/5/04	
ARRIVAL TIME	1235	DEPARTURE TIME	1250	SERVICED BY	FOSSUM/CONDELLO	
SAMPLER - MODEL NUMBER				SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED INTAKE + TUBING, DROPPED OFF
2	CLEAN BOTTLES, RESET SAMPLER, PULLED
3	DATA w/ DTU.

# STORMWATER O&M LOG SHEET

SITE	CITRUS		DATE	4/19/04	
ARRIVAL TIME	1430	DEPARTURE TIME	SERVICED BY		FOSSUM/CONDELLO
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.
1 PULLED DATA w/DTU, RESET SAMPLER.
2
3

# STORMWATER O&M LOG SHEET

SITE	CITRUS		DATE	5/5/04	
ARRIVAL TIME	1145	DEPARTURE TIME	1200	SERVICED BY	KASPOR/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.1 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA w/ <del>DTU</del> DTU, RESET SAMPLER.
2	
3	



# STORMWATER O&M LOG SHEET

SITE	CITRUS		DATE	6/23/04	
ARRIVAL TIME	1025	DEPARTURE TIME	1030		SERVICED BY
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.9 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	RESET SAMPLER
2	
3	

# STORMWATER O&M LOG SHEET

SITE	IND PARK		DATE	4/1/04		
ARRIVAL TIME	0910	DEPARTURE TIME	0920		SERVICED BY	FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.8 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input checked="" type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED SIGMA BATTERY, REPROGRAMMED
2	SAMPLER FOR SUMMER SAMPLING, RESET
3	SAMPLER.

# STORMWATER O&M LOG SHEET

SITE	IND PARK		DATE	4/5/04	
ARRIVAL TIME	1050	DEPARTURE TIME	SERVICED BY		FOSSUM/CONDELLO
SAMPLER - MODEL NUMBER			SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.7 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input checked="" type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED INTAKE + TUBING, DROPPED OFF
2	CLEAN BOTTLES, RESET SAMPLER, PULLED
3	DATA W/DTU.

# STORMWATER O&M LOG SHEET

SITE	IND PARK		DATE	4/9/04		
ARRIVAL TIME	0915	DEPARTURE TIME	0925		SERVICED BY	FOSSUM/CONDELLO
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.6 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.
1 PULLED DATA w/DTU, RESET SAMPLER.
2
3

## STORMWATER O&M LOG SHEET

SITE	IND PARK			DATE	4/20/04	
ARRIVAL TIME	1040	DEPARTURE TIME	1050	SERVICED BY	HEMAUER/FOSSUM	
SAMPLER - MODEL NUMBER				SIGMA - 900	ISCO - 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED INTAKE + TUBING, DROPPED OFF CLEAN
2	BOTTLES, PULLED DATA w/DTU, RESET SAMPLER.
3	

# STORMWATER O&M LOG SHEET

SITE	IND PARK		DATE	5/5/04	
ARRIVAL TIME	0920	DEPARTURE TIME	0950	SERVICED BY	KASPOR/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.
1 PULLED DATA w/DTU, RESET SAMPLER
2
3

## STORMWATER O&M LOG SHEET

SITE	IND PARK		DATE	5/29/04	
ARRIVAL TIME	1230	DEPARTURE TIME	1300	SERVICED BY	KASPOR/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA w/ DTU, RESET SAMPLER.
2	
3	

## STORMWATER O&M LOG SHEET

SITE	1ND PARK		DATE	6/23/04	
ARRIVAL TIME	0850	DEPARTURE TIME	0940		SERVICED BY
			SIGMA - 900		ISCO - 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.

1 PULLED DATA, RESET SAMPLER (CELL #6)

2 NO DIAL TONE, BROKEN WIRE AT THE PHONE POLE

3

# STORMWATER O&M LOG SHEET

SITE	DLIVE		DATE	4/1/04	
ARRIVAL TIME	0940	DEPARTURE TIME	0945	SERVICED BY	FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">ISCO - 3700</span>		

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.6 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED CR-10 BATTERY.
2	
3	

# STORMWATER O&M LOG SHEET

SITE	OLIVE		DATE	4/5/04	
ARRIVAL TIME	1120	DEPARTURE TIME	1135		SERVICED BY
			FOSSUM / CONDELLO		
SAMPLER - MODEL NUMBER			SIGMA - 900 <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px;">ISCO - 3700</span>		

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED INTAKE & TUBING, DROPPED OFF
2	CLEAN BOTTLE, RESET SAMPLER.
3	

# STORMWATER O&M LOG SHEET

SITE	OLIVE		DATE	4/9/04	
ARRIVAL TIME	0940	DEPARTURE TIME	0950	SERVICED BY	FOSSUM/CONDELLO
SAMPLER - MODEL NUMBER			SIGMA - 900 <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px;">ISCO - 3700</span>		

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.

1	CLEANED INTAKE & TUBING, DROPPED OFF
2	CLEAN BOTTLE, RESET SAMPLER.
3	

# STORMWATER O&M LOG SHEET

SITE	OLIVE		DATE	4/20/04	
ARRIVAL TIME	0940	DEPARTURE TIME	0950	SERVICED BY	FOSSUM/HEMAUER
SAMPLER - MODEL NUMBER			SIGMA - 900 <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px;">ISCO - 3700</span>		

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.
1 CHANGED CR 10 BATTERY, DROPPED OFF CLEAN BOTTLE,
2 CLEANED INTAKE & TUBING
3

# STORMWATER O&M LOG SHEET

SITE	OLIVE		DATE	5/5/04	
ARRIVAL TIME	1005	DEPARTURE TIME	1010	SERVICED BY	KASPER/FOSSUM
SAMPLER - MODEL NUMBER			SIGMA - 900 <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px;">ISCO - 3700</span>		

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.9 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED CR-10 BATTERY.
2	
3	

# STORMWATER O&M LOG SHEET

SITE	OLIVE			DATE	6/16/04		
ARRIVAL TIME	0850	DEPARTURE TIME	0930	SERVICED BY	FOSSUM / KASPOR		
SAMPLER - MODEL NUMBER				SIGMA - 900 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">ISCO - 3700</span>			

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	13.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (Intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED SOLAR PANEL & REGULATOR FOR
2	CR-10, CHANGED CR-10 BATTERY
3	