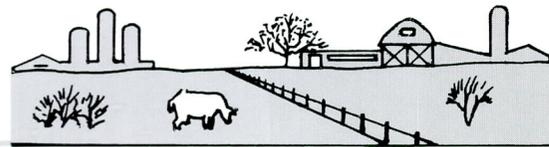
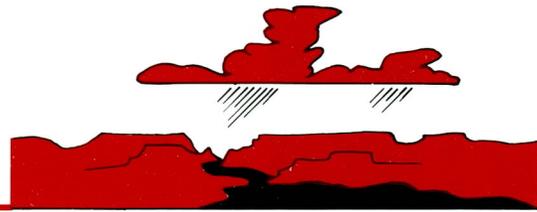


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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Stormwater Quality Report
City of Mesa, Arizona

Fourth Quarter

July 23, 1999

FLOOD CONTROL
DISTRICT

OF
MARICOPA
COUNTY

Stormwater Quality Report

Fourth Quarter, Sampling Year 1999

April 1, 1999 through June 30, 1999

For
City of Mesa, Arizona

July 23, 1999

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Stormwater Quality Report
City of Mesa, Arizona

Fourth Quarter

July 23, 1999

Introduction

The Flood Control District of Maricopa County operates and maintains five land based stormwater monitoring stations for the City of Mesa for compliance with their National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge permit. This report contains data from the spring 1999 seasonal rainfall. As a requirement of Mesa's permit, no stormwater sampling activities are valid during this period. This report contains only data pertinent to any maintenance activities during this period.

A representative event is defined in the following manner.

MESA	RAINFALL	DURATION
SUMMER	0.24 – 0.72 INCH	2.4 – 7.2 HOURS
WINTER	0.22 – 0.66 INCH	5.9 – 17.7 HOURS

In addition, no rainfall greater than 0.10 inches shall have fallen within the past 72 hours. Summer months are July through September and winter months are October through March. Any rainfall in April, May, and June is not considered representative. A brief report will be issued in late June or early July for the April – June period. The report will not contain storm summaries, but it will have maintenance and rainfall information.

Storm Summaries

This is a summary of sampled storm events in the fourth quarter of the 1999 sample year, which is April 1 through June 30, 1999. Mesa's permit requires that no sampling occur during this period. Therefore, there is no sampling data to report.

Maintenance Summary

This section details maintenance activities and problems during the third quarter.

Sixth and Horne – Mesa 1

The equipment was serviced on June 29, 1999. A newer American Sigma 900 MAX automatic sampler was installed. The existing pressure transducer and rain gauge were connected. The sample volume was calibrated. It required several tries to calibrate it properly. Next, the pressure transducer was calibrated. It was difficult to calibrate. The gauge would not read zero. The calibration was repeated approximately six times until the gauge reading was satisfactory. All tubing was checked and cleaned.

Broadway and Lindsay – Mesa 2

Equipment was serviced on June 23, 1999. The existing equipment was calibrated and cleaned. First, the volume was calibrated. It calibrated well. The pressure transducer was calibrated next. The calibration was straightforward. The equipment was cleaned and checked. The distributor arm tubing was replaced because binding was occurring causing the distributor arm to malfunction.

Falcon Field – Mesa 3

Equipment was serviced on June 23, 1999. The existing equipment was calibrated and cleaned. First, the volume was calibrated. It calibrated well. The pressure transducer was calibrated next. The calibration was straightforward. The equipment was cleaned and checked. The distributor arm tubing was replaced because binding was occurring causing the distributor arm to malfunction.

Some standing water was present at the time of calibration. Standing water has become a regular occurrence.

Horne and Grandview – Mesa 4

The equipment was serviced on June 29, 1999. It was originally to be serviced on June 23. However, the intake tubing was drawing air with the water. The pump was checked for problems by substituting another sampler and calibrating the new sampler. The problem remained. All tubing was inspected. It was determined that the intake tubing had a leak. New tubing was ordered and installed on June 29. The pumped volume and pressure transducer were calibrated. All calibrated normally. The equipment was cleaned and checked.

Dobson Road – Mesa 5

The equipment was serviced on June 23, 1999. Pumped volume and the pressure transducer were calibrated. The pumped volume calibration went well. The transducer calibration was more difficult. It required several attempts to properly calibrate the transducer.

The equipment was cleaned and checked for operation.

Data from Spring 1999

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

- Rainfall Data
- Copies of maintenance and storm sheets.

Rainfall Data

Gauge Rainfall													
Gauge Number	Sixth (Mesa 1) - Data from Mesa 4 ALERT Rain gauge												
Location	Home and Sixth Street												
	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999	
1		0.05	0.01							0.29			
2		0.01	0.03			0.07				0.68			
3		0.02	0.01										
4	0.04		0.02					0.20		0.10			
5	0.10		0.01					0.03					
6			0.19			0.18							
7													
8			0.03										
9			0.05		0.02								
10		0.01											
11			0.01										
12		0.02											
13													
14													
15		0.28				0.06							
16		0.01							0.07				
17	0.13	0.28							0.01				
18	0.01	0.01											
19		0.03											
20													
21													
22													
23													
24	0.02		0.24		0.02								
25				0.16									
26	0.02			0.07			0.01						
27													
28		0.02			0.42					0.01			
29					0.01								
30				0.02									
31	0.64												
Month Total	0.96	0.74	0.60	0.25	0.47	0.31	0.01	0.23	0.08	1.08	0.00	0.00	

Gauge Rainfall												
Gauge Number	Lindsay (Mesa 2)											
Location	Broadway and Lindsay											
	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1	0.01	0.08								0.35		
2			0.04			0.04				0.48		
3												
4								0.20		0.16		
5	0.04					0.04						
6			0.04			0.20						
7												
8			0.04									
9												
10												
11			0.12									
12												
13												
14												
15		0.12										
16								0.04				
17	0.04	0.43										
18												
19												
20												
21												
22			0.16									
23												
24												
25				0.28								
26				0.04								
27												
28		0.04			0.35							
29					0.04							
30												
31	0.20											
Month Total	0.29	0.67	0.40	0.32	0.39	0.28	0.00	0.20	0.04	0.99	0.00	0.00

Gauge Rainfall												
Gauge Number	Falcon Field (Mesa 3)											
Location	Falcon Field											
	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1		0.24								0.39		
2						0.03				0.52		
3												
4								0.22		0.20		
5	0.04											
6	0.24		0.04			0.06						
7												
8												
9					0.01							
10												
11			0.08									
12												
13										0.04		
14												
15		0.47										
16									0.01			
17		0.35										
18												
19												
20												
21												
22	0.04											
23												
24	0.04											
25				0.09								
26				0.01			0.01					
27												
28					0.11							
29												
30				0.01								
31	0.79											
Month Total	1.15	1.06	0.12	0.11	0.12	0.09	0.01	0.22	0.01	1.15	0.00	0.00

Gauge Rainfall												
Gauge Number	Grandview (Mesa 4)											
Location	Home and Grandview											
	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1		0.05	0.01							0.29		
2		0.01	0.03			0.07				0.68		
3		0.02	0.01									
4	0.04		0.02					0.20		0.10		
5	0.10		0.01					0.03				
6			0.19			0.18						
7												
8			0.03									
9			0.05		0.02							
10		0.01										
11			0.01									
12		0.02										
13												
14												
15		0.28				0.06						
16		0.01							0.07			
17	0.13	0.28							0.01			
18	0.01	0.01										
19		0.03										
20												
21												
22												
23												
24	0.02		0.24		0.02							
25				0.16								
26	0.02			0.07			0.01					
27												
28		0.02			0.42					0.01		
29					0.01							
30				0.02								
31	0.64											
Month Total	0.96	0.74	0.60	0.25	0.47	0.31	0.01	0.23	0.08	1.08	0.00	0.00

Gauge Rainfall													
Gauge Number	Dobson (Meša 5)												
Location	Dobson and Broadway												
	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999	
1		0.07	0.01							0.30			
2						0.13				0.51			
3													
4			0.13					0.19		0.10			
5	0.04	0.01	0.03					0.01					
6	0.01		0.24			0.17		0.01					
7	0.01												
8					0.02								
9			0.02		0.01								
10													
11			0.09										
12		0.61											
13										0.04			
14													
15		0.50				0.07							
16									0.22				
17	0.03	0.25											
18													
19													
20													
21													
22			0.11										
23													
24	0.02												
25				0.09			0.01						
26				0.26									
27													
28		0.04			0.28								
29					0.03								
30				0.06									
31	0.09												
Month Total	0.20	1.48	0.63	0.41	0.34	0.37	0.01	0.21	0.22	0.95	0.00	0.00	

Records

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE <i>Orandvia & Herne</i>		DATE <i>6/30/99</i>	
ARRIVAL TIME	DEPARTURE TIME	SERVICED BY <i>(Signature)</i>	
SAMPLER MODEL NUMBER		SAMPLER SERIAL/ ASSET NUMBER	
PT SERIAL NUMBER/ ASSET NUMBER		RAINGAGE SERIAL/ ASSET NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	<u>GOOD</u> FAIR POOR	YES <u>NO</u>	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Install Battery back up system to electric connections. Correct tips on alert gauge.*

(Signature)

** Stopped by O'Neil & Herne to check the backup system okay*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	SIXTH		DATE	6-29-99	
ARRIVAL TIME	1030	DEPARTURE TIME	1200	SERVICED BY RWN/CFK/DEE	
SAMPLER MODEL NUMBER	900 MAX		SAMPLER SERIAL/ ASSET NUMBER		EA0597MPC010680
PT SERIAL NUMBER/ ASSET NUMBER			RAINGAGE SERIAL/ ASSET NUMBER		

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD <input checked="" type="checkbox"/> FAIR POOR	YES NO	YES NO	
RAINGAGE	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

- difficult to calibrate sample tubing and Pt depth

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	GRANDVIEW		DATE	6-29-99	
ARRIVAL TIME	0745	DEPARTURE TIME	1020	SERVICED BY	RWN/GFK/DCZ
SAMPLER MODEL NUMBER	900 MAX		SAMPLER SERIAL/ ASSET NUMBER	010679	
PT SERIAL NUMBER/ ASSET NUMBER			RAINGAGE SERIAL/ ASSET NUMBER		

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	YES NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	volts
SOLAR PANEL	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO N/A	<input checked="" type="checkbox"/> GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	YES NO	72 length (feet)
SAMPLER PUMP TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	YES <input checked="" type="checkbox"/> NO	YES <input checked="" type="checkbox"/> NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	YES <input checked="" type="checkbox"/> NO	YES <input checked="" type="checkbox"/> NO	
DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *replaced intake tubing*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	LINDSAT		DATE	6-23-99	
ARRIVAL TIME	0730	DEPARTURE TIME	SERVICED BY		
SAMPLER MODEL NUMBER		800	SAMPLER SERIAL/ ASSET NUMBER		H019511337
PT SERIAL NUMBER/ ASSET NUMBER			RAINGAGE SERIAL/ ASSET NUMBER		

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES <u>NO</u>	GOOD FAIR POOR	YES <u>NO</u>	YES NO	_____ volts
SOLAR PANEL	YES NO <u>N/A</u>	GOOD FAIR POOR	YES <u>NO</u>	YES NO	_____
CONNECTION CABLES	<u>YES</u> NO	<u>GOOD</u> FAIR POOR	YES <u>NO</u>	YES NO	
RAINGAGE	<u>YES</u> NO	<u>GOOD</u> FAIR POOR	YES <u>NO</u>	YES NO	
SAMPLE INTAKE TUBING	<u>YES</u> NO	<u>GOOD</u> FAIR POOR	YES <u>NO</u>	YES NO	length (feet)
SAMPLER PUMP TUBING	<u>YES</u> NO	<u>GOOD</u> FAIR POOR	YES <u>NO</u>	YES NO	
SAMPLER DISTRIBUTOR TUBING	<u>YES</u> NO	GOOD FAIR POOR	<u>YES</u> NO	YES NO	
DEPTH SENSOR	<u>YES</u> NO	GOOD FAIR POOR	YES <u>NO</u>	YES NO	3.50" depth (inch)
CALIBRATE DEPTH SENSOR	<u>YES</u> NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<u>YES</u> NO	<u>GOOD</u> FAIR POOR	N/A	N/A	450 mL
CLEANED SAMPLE INTAKE TUBING	<u>YES</u> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Need to return Service Book on
Station visits & service.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	FALCON		DATE	6-23-99	
ARRIVAL TIME	1300	DEPARTURE TIME	SERVICED BY RWN/GFK/DEG		
SAMPLER MODEL NUMBER	800		SAMPLER SERIAL/ ASSET NUMBER E07925067		
PT SERIAL NUMBER/ ASSET NUMBER			RAINGAGE SERIAL/ ASSET NUMBER		

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	460 mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *continues to function well.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	GRANDVIEW		DATE	6-23-99	
ARRIVAL TIME	0905	DEPARTURE TIME	SERVICED BY		RWN/GFK/DEG
SAMPLER MODEL NUMBER		800	SAMPLER SERIAL/ ASSET NUMBER		E0792 5069
PT SERIAL NUMBER/ ASSET NUMBER			RAINGAGE SERIAL/ ASSET NUMBER		

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS unable to calibrate vol.
will try to replace intake tubing

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	DOBSON		DATE	6-23-99	
ARRIVAL TIME	1000	DEPARTURE TIME	1130	SERVICED BY	RWN/CFK/DEG
SAMPLER MODEL NUMBER	800		SAMPLER SERIAL/ ASSET NUMBER	H107925066	
PT SERIAL NUMBER/ ASSET NUMBER			RAINGAGE SERIAL/ ASSET NUMBER		

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	440 mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

difficult to calibrate PT. - seems okay though

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Mesa 2 Horne 8 6 th ST		DATE	6/17/99	
ARRIVAL TIME		DEPARTURE TIME		SERVICED BY	(Rue)
SAMPLER MODEL NUMBER			SAMPLER SERIAL / ASSET NUMBER		
PT SERIAL NUMBER / ASSET NUMBER			RAINGAGE SERIAL / ASSET NUMBER		

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	(YES) NO	(GOOD) FAIR POOR	(YES) (NO)	(YES) (NO)	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS: In-tube changed out past winter. Hoses look clean and in good condition. Check phone okay. Put in fecal bottle.

(Rue)

Water Quality Sampler Maintenance Log Sheet

SITE	Moadley & Lindsey		
DATE	6/17/89	TIME	
SERVICED BY	(Signature)		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Remove non preserved amber bottle, replace with Amber preservative bottle. Check phone, okay. In take line replaced past winter. Lines look clean and in good condition.

(Signature)

Water Quality Sampler Maintenance Log Sheet

SITE	Falcon Field		
DATE	6/17/99	TIME	
SERVICED BY	<i>(Signature)</i>		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	<u>YES</u> NO	<u>GOOD</u> FAIR POOR	<u>YES</u> <u>NO</u>	<u>YES</u> <u>NO</u>	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Phone okay add bottles Intake tube replace last winter, looks good, line look clean and in good condition. (no grab bottles) Put in set of grab*

(Signature)

Water Quality Sampler Maintenance Log Sheet

SITE	Horne & Grandview		
DATE	6/17/99	TIME	
SERVICED BY	Pru		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS in-take tube changed past winter.

Lines look clean and in good condition. Phone okay

Put in Bottle.

Pru

Water Quality Sampler Maintenance Log Sheet

SITE	Broadway / Nakson		
DATE	6/17/99	TIME	
SERVICED BY	(Signature)		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	<u>YES</u> NO	<u>GOOD</u> FAIR POOR	YES <u>NO</u>	YES <u>NO</u>	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *In-take Line replaced past winter*

Lines clean and look good. Phone okay

add bottles.

(Signature)

SITE	Horne & 6 th ST		
DATE	4/12/99	TIME	0930
SERVICED BY	<i>(Signature)</i>		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Replace bottles clean and flush intake line*

Shot down program

(Signature)

Water Quality Sampler Maintenance Log Sheet

SITE	Broadway & Lindsey		
DATE	4/12/99	TIME	10:40
SERVICED BY	Rou		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Flush and clean intake line, put in clean bottles

Leave program shut off

Rou

Water Quality Sampler Maintenance Log Sheet

SITE	Falcon Field		
DATE	4/12/99	TIME	1008
SERVICED BY	Rou		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Cap bottles, flush and clean intake lines
Leave Station shut down
(R)

SITE	Horne & Grandview		
DATE	4/12/99	TIME	0950
SERVICED BY			
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Replace bottles, flush and clean intake line
Shut program OFF

(Signature)

Water Quality Sampler Maintenance Log Sheet

SITE	Breadway @ Dobson		
DATE	4/12/99	TIME	0900
SERVICED BY	(Signature)		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Clean bottles, flush intake line, stop program*

(Signature)

STORM EVENT LOG SHEET

SITE: MESA 1

DATE: 4-6-99 TIME: 1500

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

pulling approx. half volume of
sample.

FIELD PARAMETERS:

Sampler Start Time

Effluent pH

Effluent Temperature

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?

YES

NO

Preservatives added to bottles?

YES

NO

STORM EVENT LOG SHEET

SITE: MESA 2

DATE: 4-6-99 TIME: 1525

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

looked good.

FIELD PARAMETERS:

Sampler Start Time

Effluent pH

Effluent Temperature

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?

YES

NO

Preservatives added to bottles?

YES

NO

STORM EVENT LOG SHEET

SITE: MESA 4

DATE: 4-6-99 TIME: 1510

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

- very little sample pumped.
- basin didn't have a lot of runoff.

FIELD PARAMETERS:

Sampler Start Time

Effluent pH

Effluent Temperature

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?

YES NO

Preservatives added to bottles?

YES NO

STORM EVENT LOG SHEET

SITE: MESA 5

DATE: 4-6-99 TIME: 1440

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO *unsure*

IF NO, WHAT WERE PROBLEM(S):

*only 2 bottles filled,
started 6:50 AM 4-1-99*

FIELD PARAMETERS:

Sampler Start Time

Effluent pH

Effluent Temperature

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?

YES NO

Preservatives added to bottles?

YES NO