# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 100

Service Log

Site Name: Carr St Date: 31-Oct-13 Time: 13:35

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Could not check PT calibration or upload new firmware for AL200. Wrong cable in truck. PT was

pulled up, battery taken out, and TB out. Replaced desiccant. Site down.

Site Notes:

Follow-Up: Upload new firmware into AL200. Check PT cal.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

100

Site ID:

Service Log

Site Name: Date: Time: 16:00 **Carr St** 30-May-13 Technician: SB Service Type: Installation Status: OK

**Configuration Changes** 

Part # Location PT D 3723935 100

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed site, Alert 1, only need 45 foot PT (approx)

Site Notes: ALERT2, ID 10012, Magnum Key

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

110

Site ID:

Service Log

Site Name:Ralston ResDate:17-Jul-13Time:11:35Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

110 11:45 89 0

Problem:

Action Taken: PT and riser fully submerged. Cant access PT water level to high (even with hip waders) to

check calibration. PT tipped three times. TB clean and clear. TB OK

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 110

Service Log

Site Name: Ralston Res Date: 05-Feb-13 Time: 15:25
Service Type: OneRain Service Ca Technician: SB/ZC Status: PT Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced conduit allowing access to PT during high water. PT will be installed in the spring.

Site ID:

110

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Ralston Res Date: 20-Mar-13 Time: 13:21
Service Type: OneRain Service Ca Technician: SB/FL Status: OK

**Configuration Changes** 

Part # Location
TX J 8698 110
TB J 2532 110
PT D 3533101 110
BY R 1216 110

Transducer Calibration

Sensor ID Slope Calib Offset Std Error
113 0.012 0.0132 0.0055

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1216 13.16

Test Transmission								
Port	Time	Count	Measure		Predicted			
110	14:12	1			0			
110	14:12	2			0			
113	13:55	1837	9.54	psi	2232			
113	13:56	1321	6.87	psi	1610			
113	13:57	977	5.08	psi	1194			
113	13:58	592	3.08	psi	727			
113	13:59	222	1.16	psi	279			
113	14:00	914	4.75	psi	913			

Problem:

Action Taken: Installed TXR, Battery, Desiccant, and TB. Installed new PT. Good hydraulic contact. RF OK. TB OK. PT OK.

{Auto Entry: Calibrated sensor 113 by linear regression. Modified calibration data. New

calibration [Slope(0.0120), Calibration Offset(0.0132), Std Error(0.0055), Calibration

Date(3/20/2013 1:59:52 PM)]}.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 110

Service Log

Site Name:Ralston ResDate:26-Aug-13Time:12:16Service Type:InspectionTechnician:ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 110
 12:23
 154
 0

 110
 12:23
 155
 0

110 12:23 155 0 113 12:20 428 2.22 psi 426 113 12:21 1030 5.34 psi 1025

Problem:

Action Taken: PT tested within acceptable range. TB OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

120

Service Log

Site Name: Date: Time: 11:26 **Croke Pump Stn** 13-Jun-13 Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location BY R 1232 120

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power:

**Battery Tests** 

Rev Power: SWR:

Battery # V Quiescent V Load

BY R 1232 13.10 Test Transmission

Port Time Count Measure Predicted 123 11:34 1089 5.35 psi 1083 11:35 123 440 435 2.15 psi

Problem:

Action Taken: TB OK, PT OK. Replaced Battery.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 120

Service Log

Site Name:Croke Pump StnDate:26-Aug-13Time:13:27Service Type:InspectionTechnician:ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 120
 13:33
 87
 0

 120
 13:33
 88
 0

120 13:33 88 0 123 13:30 445 2.18 psi 442 123 13:31 1054 5.19 psi 1050

Problem:

Action Taken: PT tested within acceptable range. TB OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT**

120

Site ID:

**ONERAIN INCORPORATED** 

Service Log

Site Name: 12-Mar-13 Time: 13:19 **Croke Pump Stn** Date: Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location TX J 28970 120 TB J 20912 120 BY R 1220 120

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0120-00E

Jumpers: 3,5 Removed

Eprom:

Tx Freq: 169.500 Rx Freq: 171.875 Fwd Power: 3.8 Rev Power: 0.1

1.39 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1220 13.29 Test Transmission Port Time Count Measure Predicted 120 13:47 1 0 13:48 120 2 0 13:34 1193 5.84 psi 1183 123 123 13:35 320 1.55 psi 314

Problem:

Action Taken: Installed TXR, TB, Battery, and desiccant. Lowered PT. Flushed intake. RF OK. PT OK. TB

OK.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

120

Site ID:

Service Log

Site Name: Date: Time: 10:40 **Croke Pump Stn** 31-Oct-13

Service Type: End of Season Status: Site Down Technician: NK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 123 10:51 1479 7.24 psi 1466 325 123 10:52 332 1.60 psi

Problem:

Action Taken: Two point PT test passed. PT intake flushed, and dug mud out from around riser. PT OK. TXR

out, TB out. Site down.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 130

Service Log

Site Name: Simm St Date: 31-Oct-13 Time: 12:15

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 133
 12:22
 1573
 7.57 psi
 1573

 133
 12:23
 375
 1.80 psi
 375

Problem:

Action Taken: Two point PT test passed. PT OK. TXR out. Site down.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 130

Service Log

Site Name: Simm St Date: 12-Mar-13 Time: 12:28
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1007
 130

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1007 12.94

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 133
 12:48
 1144
 5.51
 psi
 1146

 133
 12:49
 429
 2.07
 psi
 430

**Problem:** Missing PT Desiccant Box

Action Taken: Installed TXR, Battery, and Desiccant. RF OK. PT OK. Need to bring a PT desiccant Box for

PT signal conditioning.

Site Notes:

Follow-Up: Missing PT Desiccant Box

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

130

Service Log

Site Name: Simm St Date: 13-Jun-13 Time: 12:23 Technician: MZ Service Type: Inspection Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 133 12:27 782 3.76 psi 782 12:28 454 455 133 2.19 psi

Problem:

Action Taken: PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 130

Service Log

Site Name: Simm St Date: 13-Aug-13 Time: 14:09
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1037
 130

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1037 13.03

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Two point PT test passed. PT OK Site OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

140

Service Log

Site Name: 17-Jul-13 Time: 12:15 **Blue Mountain** Date: Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 140 12:20 949 0 12:20 950 0 140

Problem:

Action Taken: @ 12:26 AT raw value = 109 = AT = 69 degrees. RH raw value = 55 = RH = 55%. @ 12:27

psychrometer readings. db = 70 and wb = 63. RH = 60% Dewpoint = 74 degrees. AT = 70

degrees. TB two tips. TB clear and clean. Site OK

Site Notes:

Follow-Up:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

150

Service Log

Site Name: Date: Time: 11:35 **Nott Creek** 01-Aug-13 Technician: NK Service Type: Inspection Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

0150-0012-0112-11011 Switches:

Jumpers:

Eprom: В

Tx Freq: 169.525

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site Notes: use combo lock (2012 is code) 796 lock it locked out of chain

Follow-Up:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 150

Service Log

Site Name: Nott Creek Date: 02-Dec-13 Time: 11:48
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1232
 150

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0150-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 2.2

 Rev Power:
 0.1

 SWR:
 1.54

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1232 13.06

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 150
 12:10
 1
 0

 150
 12:10
 2
 0

Problem:

Action Taken: Changed out battery and desiccant. Tested TXR with Watt meter. Radio should be replaced. TB

OK. Site OK.

Site Notes:

Follow-Up: Replace radio in spring

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 150

Service Log

Site Name: Nott Creek Date: 12-Feb-13 Time: 13:41
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location
TX J 25151 150
TB H 560 150
BY R 0842 150

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0150-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 150 13:49 1 0 13:53 0 150 2 13:54 3 0 150 13:54 150 4 0 150 13:54 5 0

Problem:

Action Taken: Installed TXR, TB, Battery, and Desiccant. RF OK. Tb OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 200

Service Log

Site Name: Leyden Reservoir Date: 31-Oct-13 Time: 11:20

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Can not access PT. Lock out of lower structure. TXR out. TB out. Site down. PT was not pulled

up.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 200

Service Log

Site Name: Leyden Reservoir Date: 26-Aug-13 Time: 13:54
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

203

14:00

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 200 14:05 168 0 14:05 0 200 169 200 14:06 170 0 13:59 221 238 203 2.24 psi

514

5.15 psi

536

Problem:

Action Taken: PT tested within acceptable range. TB OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

200

Site ID:

Service Log

Site Name: Leyden Reservoir Date: 15-Mar-13 Time: 12:45
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
TX J 14148 200
TB J 23289 200
BY R 1203 200

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 0200-00D

Jumpers: C:J6,1-2,J3,5 off; L:J8,9,1-

Eprom: R 1.8 9CA1

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.5

 Rev Power:
 0.1

 SWR:
 1.41

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1203 12.90

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 203
 13:04
 268
 2.56 psi
 271

 203
 13:05
 550
 5.36 psi
 558

Problem:

Action Taken: Installed TXR, battery and TB. Lowered PT for season. PT tested OK RF OK TB OK

Site Notes:

Follow-Up: PT conduit broken at start of cat walk. Needs repair.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 200

Service Log

Site Name:Leyden ReservoirDate:13-Jun-13Time:11:54Service Type:InspectionTechnician:MZStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 203
 12:03
 519
 5.14 psi
 535

 203
 12:04
 231
 2.33 psi
 248

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

210

Site ID:

Service Log

Site Name: Leyden Conf. Date: 13-Jun-13 Time: 12:56
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 213
 13:00
 878
 4.25 psi
 892

 213
 13:01
 503
 2.46 psi
 517

Problem:

Action Taken: TB OK, PT OK.

#### MAINTENANCE RECORD Site ID: URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

**ONERAIN INCORPORATED** 

Service Log

Site Name: Leyden Conf. Date: 12-Mar-13 Time: 11:43
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location
TX J 8696 210
TB J 23174 210
BY R 1255 210

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

210

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0210-3-0

Jumpers: C:JB6,1-2 L:JB9,10, 1-2

Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 5.0

 Rev Power:
 0.1

 SWR:
 1.33

Battery Tests

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 210 12:05 1 0 12:07 210 2 0 213 11:54 1198 1213 5.77 psi 213 11:55 387 1.91 psi 402

Problem:

Action Taken: Installed TXR, Battery, TB, and Desiccant. Lowered PT. PT OK. RF OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 210

Service Log

Site Name:Leyden Conf.Date:14-Aug-13Time:10:15Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 0223
 210

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1255 13.03

rest rra				
Port	Time	Count	Measure	Predicted
210	10:21	0		0
210	10:23	0		0
210	10:24	1		0
210	10:25	2		0
210	10:27	3		0
210	10:28	4		0

Problem:

Action Taken: changed out battery. TB received four tips. TB OK Two point PT test passed. PT OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

210

Site ID:

Service Log

Site Name: Leyden Conf. Date: 31-Oct-13 Time: 11:51

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 213
 12:04
 458
 2.23 psi
 469

 213
 12:05
 1451
 6.96 psi
 1461

Problem:

Action Taken: Two point PT test passed. PT OK. TXR out, TB out. Site down.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

220

Site ID:

Service Log

Site Name: **Upper Leyden** Date: 13-Jun-13 Time: 10:19 Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq: Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB OK.

Service Log

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site Name:Upper LeydenDate:26-Aug-13Time:11:45Service Type:InspectionTechnician:ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

220

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq:
Fwd Power:

Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** TB funnel clogged

Action Taken: Cleaned TB funnel. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 220

Service Log

Site Name: Upper Leyden Date: 01-Aug-13 Time: 12:59
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted
220 13:00 188 0

220 13:00 188 0 220 13:01 189 0 220 13:01 190 0

Problem:

Action Taken: TB clean and clear on arrival. TB received four tips. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

220

Site ID:

Service Log

Site Name: Upper Leyden Date: 31-Oct-13 Time: 9:38

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TooK out battery, desiccant, and TB. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

220

Site ID:

Service Log

Site Name: Upper Leyden Date: 12-Feb-13 Time: 15:28
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0907
 220

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0220-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.5

 Rev Power:
 0.2

 SWR:
 1.63

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0907 12.80

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 220
 15:29
 3
 0

 220
 15:29
 4
 0

Problem:

Action Taken: Installed TB and battery. TB OK RF OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

300

Site ID:

Service Log

Site Name: Van Bibber Park Date: 31-Oct-13 Time: 12:40

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TXR out, TB out. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 300

Service Log

Site Name: Van Bibber Park Date: 06-Feb-13 Time: 13:56
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 25451 300
TB J 19612 300
BY R 2231 300

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0300-3-D

Jumpers: Eprom:

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 2231 12.96

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 300
 14:07
 1
 0

 300
 14:08
 2
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 300

Service Log

Site Name:Van Bibber ParkDate:30-Jul-13Time:14:01Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 0324
 300

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq: Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 2231 12.94

lest transmission							
Port	Time	Count	Measure	Predicted			
300	14:04	207		0			
300	14:05	0		0			
300	14:05	0		0			
300	14:09	1		0			
300	14:10	2		0			

Problem:

Action Taken: changed out battery. TB clean and clear on arrival. TB received three tips. TB OK SiteOK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

310

Site ID:

Service Log

Site Name: **Guy Hill** Date: 01-Aug-13 Time: 10:50 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Measure Predicted Port Time Count 310 10:51 179 0 10:52 180 0 310

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 310

Service Log

Site Name: Guy Hill Date: 12-Feb-13 Time: 12:52
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 19666
 310

 TB J 24912
 310

 BY R 1237
 310

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 310 13:02 1 0 13:04 2 0 310 310 13:04 3 0

Problem:

Action Taken: Installed TXR, Battery, TB, and desiccant. RF OK. TB OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

310

Site ID:

Service Log

Site Name: Date: 18-Nov-13 Time: 13:27 **Guy Hill** 

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, and Desiccant for winter.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 320

Service Log

Site Name: Sports Complex Date: 12-Mar-13 Time: 10:26

Service Type: Start Up Technician: SB Status: PT Down

**Configuration Changes** 

Part # Location
TX J 28969 320
TB J 21318 320
BY R 0814 320

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 0320-00E

Jumpers: C: J6 1-2,J3.5 off L: J9,10

Eprom: R1.8 57FE Tx Freq: 169.525

Rx Freq:

 Fwd Power:
 4.2

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0814 13.12

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 320
 11:14
 1
 0

 320
 11:14
 2
 0

**Problem:** PT Unresponsive

Action Taken: installed TXR, Battery, TB, and Desiccant. PT was unresponsive needs replaced. Replaced

top TB screen. RF OK. TB OK. TB DOWN.

Site Notes:

Follow-Up: Replace PT

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

320

Site ID:

Service Log

Site Name: **Sports Complex** Date: 20-Mar-13 Time: 10:59 Service Type: OneRain Service Ca Technician: SB/FL Status: OK

**Configuration Changes** 

Part # Location PT D 3533100 320

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 323 0.011 -0.0107 0.0069

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq: Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
320	11:46	3			0
320	11:46	4			0
323	11:29	1970	9.39	psi	1938
323	11:30	1485	7.07	psi	1459
323	11:31	1036	4.94	psi	1021
323	11:32	671	3.20	psi	663
323	11:33	223	1.05	psi	221
323	11:34	1021	4.88	psi	1024

Problem:

Action Taken: Installed new PT. Dug out intake for hydraulic contact. Continue to monitor riser. DO NOT NEED 100 foot PT. suggest 75 feet.

> {Auto Entry: Calibrated sensor 323 by linear regression. Modified calibration data. New calibration [Slope(0.0110), Calibration Offset(-0.0107), Std Error(0.0069), Calibration

Date(3/20/2013 11:33:54 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 320

Service Log

Site Name:Sports ComplexDate:03-Jun-13Time:11:19Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 320 11:29 90 0 320 11:29 91 0 323 11:25 1254 6.01 psi 1260 323 11:26 450 2.18 psi 457

Problem:

Action Taken: PT tested within acceptable range. PT OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 320

Service Log

Site Name: Sports Complex Date: 31-Oct-13 Time: 12:59

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 323
 13:10
 1585
 7.53 psi
 1581

 323
 13:11
 325
 1.57 psi
 330

Problem:

Action Taken: Two point PT test passed. PT OK. TXR out, TB out. Site down, PT up.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 320

Service Log

Site Name: Sports Complex Date: 14-Aug-13 Time: 10:54
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1238
 320

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

11:10

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power: SWR:

Battery Tests

Battery #

V Quiescent V Load

BY R 0814 13.10

Test Transmission Port Time Count Measure Predicted 319 11:03 0 0 320 11:03 0 0 320 11:09 2 0

3

Problem:

Action Taken: Changed battery. TB clean.TB received three tips. TB OK Two point PT test passed. PT OK Site

320

OK

Site Notes:

Follow-Up:

0

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 320

Service Log

Site Name: Sports Complex Date: 18-Sep-13 Time: 11:24
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 320
 11:28
 11
 0

 320
 11:28
 12
 0

**Problem:** TB did not respond to flood event.

Action Taken: TB heavily clogged on arrival. TB funnel cleaned. TB tested. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 330

Service Log

Site Name: Van Bibber @ 93 Date: 12-Mar-13 Time: 14:04
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location
TX J 25154 330
TB H 557 330
BY R 0505 330

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0505 13.36

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
330	14:30	1		0
330	14:31	2		0
333	14:20	1518	7.38 psi	1509
333	14:21	320	1.56 psi	331

Problem:

Action Taken: Installed TXR, TB, Battery, and desiccant. Lowered PT and Flushed intake. RF OK. Tb OK.

PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 330

Service Log

Site Name: Van Bibber @ 93 Date: 31-Oct-13 Time: 10:08

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 333
 10:11
 1507
 7.41 psi
 1514

 333
 10:12
 324
 1.60 psi
 339

Problem:

Action Taken: Two point PT test passed. PT OK. TB out, TXR out. Site down.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

330

Service Log

Site Name: Van Bibber @ 93 Date: 13-Jun-13 Time: 10:35 Technician: MZ Service Type: Inspection Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 333 10:44 1137 5.59 psi 1147 10:45 333 491 477 2.35 psi

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 330

Service Log

Site Name: Van Bibber @ 93 Date: 26-Aug-13 Time: 12:38
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

333

12:43

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 330 12:44 205 0 330 12:44 206 0 333 12:42 462 2.27 psi 475

1041

5.12 psi

1051

Problem:

Action Taken: PT tested within acceptable range. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 400

Service Log

Site Name: Montview Park Date: 13-Nov-13 Time: 13:57

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 403
 14:01
 900
 4.67 psi
 893

 403
 14:02
 184
 0.93 psi
 181

Problem:

Action Taken: Removed TXR, Battery, Desiccant, and TB. PT tested within acceptable range.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

400

Service Log

Site Name: Date: Time: 11:39 **Montview Park** 13-Aug-13 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location BY R 0810 400

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load BY R 1135

13.10

Test Tra	nsmission			
Port	Time	Count	Measure	Predicted
400	11:46	206		0
400	11:48	0		0
400	11:54	1		0
400	11:55	2		0
500	10:59	21		0
500	11:05	0		0
500	11:06	0		0
500	11:11	1		0
500	11:11	2		0
500	11:14	3		0
500	11:14	4		0

Problem:

Action Taken: Changed out battery. TB clean and clear on arrival. TB leveled. TB received four tips. TB OK

Two point PT test passed. PT OK Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 400

Service Log

Site Name: Montview Park Date: 12-Mar-13 Time: 13:00
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TB J 23318 400
BY R 1135 400

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

TB J 23318 13.02

Test Transmission Port Time Count Measure Predicted 400 13:25 1 0 13:29 0 400 2 400 13:29 0 3 556 403 13:19 570 2.76 psi 403 13:20 137 0.63 psi 128

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 400

Service Log

Site Name: Montview Park Date: 20-Jun-13 Time: 12:29
Service Type: Inspection Technician: Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error
403 0.012 -0.0399 0.007

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
403	12:35	965	5.03	psi	1012
403	12:36	770	4.01	psi	807
403	12:37	576	3.00	psi	604
403	12:38	381	1.98	psi	399
403	12:39	180	0.92	psi	187
403	12:40	751	3.93	psi	752
403	12-41	361	1 88	nsi	362

Problem:

Action Taken: TB OK. Recalibrated PT.

{Auto Entry: Calibrated sensor 403 by linear regression. Modified calibration data. New calibration [Slope(0.0121), Calibration Offset(-0.0399), Std Error(0.0070), Calibration

Date(6/20/2013 12:39:44 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 410

Service Log

Site Name: Kelly Dam Date: 13-Nov-13 Time: 13:22

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 413
 13:26
 1313
 6.47 psi
 1334

 413
 13:27
 268
 1.29 psi
 277

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant. PT tested within acceptable range. Pulled up PT

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

Site ID: 410

Service Log

Site Name: Time: 10:05 **Kelly Dam** Date: 18-Mar-13 Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location TX J 19663 410 TB J 25035 410 BY R 0415 410

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 413 0.011 -0.1493 0.0348

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 0410-3-0

Jumpers:

Eprom: R1.8 57FE Tx Freq: 169.500

Rx Freq:

Fwd Power: 4.0 Rev Power: 0.1 1.38 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0415 12.90

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
413	10:22	1862	9.05	psi	1800
413	10:23	1453	7.04	psi	1393
413	10:24	1040	5.02	psi	985
413	10:25	628	3.01	psi	576
413	10:26	232	1.07	psi	186
413	10:27	1056	5.10	psi	1055
413	10:28	440	2.09	psi	439

Problem:

Action Taken: Installed TXR, battery and TB. PT calibrated. RF OK TB OK Lowered PT for start of season.

{Auto Entry: Calibrated sensor 413 by linear regression. Modified calibration data. New calibration [Slope(0.0113), Calibration Offset(-0.1493), Std Error(0.0348), Calibration

Date(3/18/2013 10:26:41 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 410

Service Log

Site Name: Kelly Dam Date: 24-Sep-13 Time: 10:39
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

410 10:35 53 0 410 10:35 54 0

**Problem:** possible TB clogged. Check PT cal after flood event.

Action Taken: TB clogged on arrival. TB cleaned. PT access under water. TB OK Need to check PT

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 410

Service Log

Site Name: Kelly Dam Date: 20-Jun-13 Time: 12:57
Service Type: Inspection Technician: Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 413
 13:02
 740
 3.65 psi
 758

 413
 13:03
 312
 1.53 psi
 326

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 410

Service Log

Site Name: Kelly Dam Date: 09-Aug-13 Time: 13:47
Service Type: Service Call Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 410 13:58 1 0

410 13:58 1 0 410 13:58 2 0

**Problem:** Low battery and possibly clogged TB

Action Taken: PT access underwater. Replaced battery. TB clogged-cleaned TB. TB OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

420

Site ID:

254

Service Log

Site Name: Time: 11:41 **Expo Park** Date: 24-Sep-13 Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location TX J 18599 420 BY R 1252 420

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

11:48

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

**BY R 1116** 

Test Transmission Port Time Count Measure Predicted 420 12:03 1 0 12:03 420 2 0 1440 423 11:47 7.22 psi 1433

262

1.29 psi

12.90

Problem:

Action Taken: Pumped out water from standpipe. Appears water came in from bottom (standpipe has been hit by lawnmower). Installed new TXR and battery. PT tested OK. Riser has very poor hydraulic

423

contact. Attempted to clean however, water is still to high. Will need to flush with pump once

water lowers.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

420

Site ID:

Service Log

Site Name: Expo Park Date: 12-Nov-13 Time: 14:44

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 423
 14:46
 1096
 5.54 psi
 1098

 423
 14:47
 574
 2.96 psi
 585

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for the season. PT Tested OK. Pulled up. Dug out

riser. Drilled hydraulic hole in riser as the pond bottom has risen.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

420

Service Log

Site Name: Date: 12-Mar-13 Time: 11:30 **Expo Park** Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location TX J 11036 420 TB J 13776 420 420 BY R 1116

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

TB J 13776 13.05 Test Transmission

Port Time Count Measure Predicted 423 11:45 568 2.78 psi 549 423 11:46 203 191 0.97 psi

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

420

Service Log

Site Name: Date: Time: 16:21 **Expo Park** 17-Sep-13

Service Type: OneRain Service Ca Technician: GH Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Low battery. Found transmitter floating in water in standpipe. Problem:

Action Taken: Removed transmitter to check for water damage. Water needs to be pumped, and entrance of

water needs to be found & fixed.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

420

Site ID:

Service Log

Site Name:Expo ParkDate:20-Jun-13Time:13:41Service Type:InspectionTechnician:Status:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0420--00D

Jumpers:

Eprom: R1.8 57FE Tx Freq: 169.525

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 423
 13:45
 801
 4.01
 psi
 794

 423
 13:46
 418
 2.08
 psi
 412

Problem:

Action Taken: TB OK. PT OK.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

420

Service Log

Site Name: Date: Time: 13:28 **Expo Park** 09-Aug-13 Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Measure Predicted Port Time Count 420 13:30 297 0

420 13:30 298 0

Problem:

Action Taken: PT access under water. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 430

Service Log

Site Name: Utah Park Date: 09-Aug-13 Time: 13:05
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission						
Port	Time	Count	Measure	Predicted		
430	13:12	389		0		
430	13:13	390		0		
433	13:09	429	2.18 psi	426		
433	13:10	1021	5.22 psi	1024		

Problem:

Action Taken: PT tested within acceptable range. TB OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

430

Site ID:

Service Log

Site Name: **Utah Park** Date: 12-Mar-13 Time: 10:22 Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location TX J 27310 430 TB J 18553 430 430 BY R 0619

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0619 12.94 Test Transmission

Port Time Count Measure Predicted 433 10:57 753 3.81 psi 746 179 433 10:58 189 0.93 psi

Problem:

Action Taken: Start Up. RF OK, TB OK, PT OK, Solar OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 430

Service Log

Site Name: Utah Park Date: 12-Nov-13 Time: 12:58

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 433
 13:01
 1189
 6.07 psi
 1193

 433
 13:03
 427
 2.16 psi
 422

Problem:

Action Taken: Two point PT test passed. PT OK. PT up. TXR out, TB out. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 430

Service Log

Site Name:Utah ParkDate:20-Jun-13Time:13:58Service Type:InspectionTechnician:Status:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 433
 14:05
 751
 3.82 psi
 749

 433
 14:06
 489
 2.47 psi
 484

Problem:

Action Taken: TB OK. PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 430

Service Log

Site Name: Utah Park Date: 24-Sep-13 Time: 12:21
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission			
Port	Time	Count	Measure	Predicted
430	12:29	830		0
430	12:30	831		0
433	12:23	1404	7.17 psi	1408
433	12:24	131	0.64 psi	121
433	12:25	622	3.16 psi	618
433	12:26	1763	9.00 psi	1771

**Problem:** Check PT cal, over reporting

Action Taken: Flushed PT intake. Did a four point PT test. Current calibration good. Will continue to monitor PT

readings. PT OK TB clean and clear on arrival. TB OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 440

Service Log

Site Name: Aurora FS#7 Date: 05-Feb-13 Time: 12:07
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 18543 440
TB J 10749 440
BY R 1231 440

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0440-00E
Jumpers: 5 0ff

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1231 12.99

Port Time Count Measure Predicted 440 12:18 1 0

440 12:18 3 0 440 12:19 4 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

440

Service Log

Site Name: Date: 12-Nov-13 Time: 12:48 Aurora FS#7

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB out, TX out, Site down for winter.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

440

Site ID:

Service Log

Site Name: Aurora FS#7 Date: 25-Jul-13 Time: 13:00
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0303
 440

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1231 13.06

Test Transmission

Port Time Count Measure Predicted 440 13:04 0 0 13:08 0 440 1 440 13:08 2 0

Problem:

Action Taken: Changed out battery. TB clean on arrival. TB received two tips. TB OK Site OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

500

Service Log

Site Name: Date: Time: 12:50 **Havana Park** 13-Nov-13

Status: Site Down Service Type: End of Season Technician: SB

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 503 12:55 1288 6.14 psi 1286 503 12:58 187 181 0.82 psi

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for the season. PT tested within acceptable range.

Pulled up.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 500

Service Log

Site Name: Date: Time: 15:47 Havana Park 17-Sep-13 Technician: GH Service Type: OneRain Service Ca Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem: Not tipping.

Action Taken: Magnet arm rubbing switch. Adjusted & tested.

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

500

Service Log

Site Name: **Havana Park** Date: 20-Jun-13 Time: 13:14 Service Type: Inspection Technician: Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

0500-00E Switches: Jumpers: 3,5 Off

Eprom: 3 Min Sample

Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 503 13:21 970 4.58 psi 962 13:24 540 503 547 2.55 psi

Problem:

Action Taken: TB OK. PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Havana Park Date: 13-Aug-13 Time: 10:58
Service Type: Service Call Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1231
 500

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

500

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0509 13.10

Test Transmission

Port Time Count Measure Predicted

**Problem:** Possible TB clog

Action Taken: TB was clean and clear on arrival. TB received four tips. TB level. TB OK Two point PT test

passed. PT OK Changed battery. Site OK

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 500

Service Log

Site Name: Havana Park Date: 12-Mar-13 Time: 12:10
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 15784 500
TB J 02531 500
BY R 0509 500

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0509 12.86

Test Transmission Port Time Count Measure Predicted 500 12:39 1 0 12:40 500 2 0 503 12:28 363 1.62 psi 347 503 12:31 112 0.41 psi 95

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

510

Service Log

Site Name: Date: Time: 10:56 **Virginia Court** 05-Sep-13 Technician: NK/SB Service Type: OneRain Service Ca Status: OK

**Configuration Changes** 

Part # Location BY R 0405 510

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0405 12.85 Test Transmission

Count Port Time Measure Predicted 510 11:00 0 0

Problem: low battery

Action Taken: Replaced battery.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

510

Site ID:

Service Log

Site Name: Virginia Court Date: 06-Feb-13 Time: 10:05
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 18542 510
TB J 23177 510
BY R 0250 510

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0510-3-D

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0250 12.96

**Test Transmission**Port Time Count Me

 Port
 Time
 Count
 Measure
 Predicted

 510
 10:20
 1
 0

 510
 10:22
 2
 0

 510
 10:22
 3
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 510

Service Log

Site Name: Virginia Court Date: 12-Nov-13 Time: 14:30

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for the season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 510

Service Log

Site Name:Virginia CourtDate:25-Jul-13Time:13:41Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 510 13:42 216 0

510 13:42 217 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 520

Service Log

Site Name:Jewell DetentionDate:05-Feb-13Time:12:38Service Type:Start UpTechnician:PBStatus:OK

**Configuration Changes** 

Part # Location
TB J 10736 520
BY R 1137 520

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0520-00E
Jumpers: 5 off

Eprom: R 1.8 9CA1

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1137 12.88

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 520
 12:52
 1
 0

 520
 12:53
 2
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 520

Service Log

Site Name: Jewell Detention Date: 12-Nov-13 Time: 13:54

Service Type: End of Season Technician: ZC Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, battery and TB for end of season.

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

520

Site ID:

Service Log

**Jewell Detention** Site Name: Date: 25-Jul-13 Time: 13:19 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location BY R 1035 520

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1137 13.20 Test Transmission

Port Time Count Measure Predicted 520 13:29 1 0 13:29 2 0 520

Problem:

Action Taken: Changed battery. TB a little clogged. TB cleaned. TB tipped two times. TB OK Site OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

530

Site ID:

Service Log

Site Name: Denver FS #19 Date: 11-Nov-13 Time: 13:41

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

0530-3-D Switches:

Jumpers: Eprom:

Tx Freq: 169.525

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB out, TXR out. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

530

Site ID:

Service Log

Site Name:Denver FS #19Date:29-Jul-13Time:14:45Service Type:InspectionTechnician:NK/SBStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1240
 530

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0530-3-D

Jumpers: Eprom:

Tx Freq: 169.525

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1240 13.30

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 530
 14:51
 1
 0

 530
 14:51
 2
 0

**Problem:** Battery low

Action Taken: TB OK. Replaced Battery

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

530

Site ID:

Service Log

Site Name: Denver FS #19 Date: 05-Feb-13 Time: 13:35
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 18533 530
TB J 23302 530
BY R 0336 530

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0530-3-D

Jumpers: Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0336 12.92

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

540

Service Log

Site Name: Parker and Miss. Date: 12-Nov-13 Time: 14:15

Service Type: End of Season Technician: ZC Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, battery and TB for end of season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 540

Service Log

Site Name: Parker and Miss. Date: 05-Feb-13 Time: 13:05
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 18532 540
TB J 3174 540
BY R 0825 540

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0540-00E
Jumpers: 5 0ff

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0825 13.17

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 540
 13:21
 1
 0

 540
 13:21
 2
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 600

Service Log

Site Name: Harvard Gulch Pk Date: 08-Mar-13 Time: 13:44
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 8691 600
TB J 21334 600
BY R 1009 600

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

TB J 21334 12.92

Test Transmission Port Time Count Measure Predicted 600 14:08 1 0 14:11 0 600 2 600 14:12 0 3 889 603 14:06 4.71 psi 876 603 14:07 456 2.41 psi 445

Problem:

Action Taken: Start Up. PT OK, RF OK, TB OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

600

Site ID:

Service Log

Site Name: Harvard Gulch Pk Date: 12-Nov-13 Time: 10:28

Service Type: End of Season Technician: ZC Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 603
 10:32
 407
 2.10 psi
 388

 603
 10:33
 962
 5.10 psi
 949

Problem:

Action Taken: PT failed 2 point test. PT will need to be calibrated during spring start up. Removed TXR, TB and

battery. PT pulled up for end of season.

Site Notes:

Follow-Up: Calibrate PT at Spring 2014 start up.

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

600

Site ID:

Service Log

Site Name: Harvard Gulch Pk Date: Time: 10:34 28-Jun-13 Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

0600-00E Switches:

Jumpers: C:J6,1-2,J3,5off;L:J9,10,1-

Eprom: R 1.8 57FE Tx Freq: 169.525

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 603 10:37 763 4.09 psi 761 331 603 10:38 340 1.80 psi

Problem:

Action Taken: TB OK. PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 600

Service Log

Site Name: Harvard Gulch Pk Date: 18-Sep-13 Time: 12:38
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1322
 600

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1322 13.10

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 600
 12:45
 1
 0

 600
 12:46
 2
 0

**Problem:** low battery

Action Taken: Battery replaced. TB clogged on arrival. TB cleaned. TB OK

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 610

Service Log

Site Name: Harvard/Jackson Date: 08-Mar-13 Time: 14:27
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 148 610
TB J 19639 610
BY R 0634 610

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 0610-00E

 Jumpers:
 3,5 off

 Eprom:
 R1.8 583E

 Tx Freq:
 169.525

Rx Freq:

Fwd Power: 2.7
Rev Power: 0.0
SWR: 1

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0634 13.30

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 613
 14:37
 891
 4.36 psi
 891

 613
 14:37
 505
 2.47 psi
 506

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

Site Notes: Riser needs to be extended. Nearly completely covered in mud.

Follow-Up:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 610

Service Log

Site Name: Harvard/Jackson Date: 07-Mar-13 Time: 13:23
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location
TX J 148 610
TB J 19639 610
BY R 0634 610

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 613 0.013 -0.0781 0.0199

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

 Switches:
 0610-00E

 Jumpers:
 3,5 off

 Eprom:
 R1.8 583E

 Tx Freq:
 169.525

Rx Freq:
Fwd Power: 3.9

Rev Power: 0.1 SWR: 1.38

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Measure		Predicted
610	13:56	2			0
610	13:56	3			0
613	13:39	1797	9.61	psi	1964
613	13:44	1805	9.71	psi	1984
613	13:45	1317	7.06	psi	1443
613	13:46	921	4.95	psi	1011
613	13:47	615	3.29	psi	673
613	13:48	235	1.23	psi	253
613	13:49	954	5.11	psi	949
613	13:50	300	1.58	psi	298

Problem:

Action Taken: Installed TXR, TB, Battery, and Desiccant. Replaced desiccant in PT box. Calibrated PT. RF OK. PT OK. TB OK.

{Auto Entry: Calibrated sensor 613 by linear regression. Modified calibration data. New calibration [Slope(0.0125), Calibration Offset(-0.0781), Std Error(0.0199), Calibration

Date(3/7/2013 1:48:13 PM)]}.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 610

Service Log

Site Name: Harvard/Jackson Date: 04-Nov-13 Time: 14:00

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 613
 14:03
 998
 4.89 psi
 995

 613
 14:04
 357
 1.74 psi
 353

Problem:

Action Taken: Removed TXR, TB, Battery and desiccant for season. Pulled up PT.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 610

Service Log

Site Name: Harvard/Jackson Date: 06-Sep-13 Time: 13:32
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location **BY R 1130 610** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 613 0.011 0.0348 0.0078

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0634 13.23

Test Transmission Port Time Count Measure Predicted 610 13:44 0 1 610 13:45 2 0 14:02 270 613 289 1.43 psi 613 14:03 680 3.35 psi 625 613 14:04 1192 1089 5.87 psi 613 14:05 1584 7.79 psi 1443 613 14:06 1773 1949 9.58 psi 613 14:07 1148 5.65 1151 psi 613 14:08 248 1.23 psi 249

**Problem:** low battery

Action Taken: Replaced battery. TB clean and clear on arrival. TB OK Two point PT test failed. PT re-

calibrated. PT riser flushed. PT OK Site OK

{Auto Entry: Calibrated sensor 613 by linear regression. Modified calibration data. New calibration [Slope(0.0113), Calibration Offset(0.0348), Std Error(0.0078), Calibration

Date(9/6/2013 2:06:25 PM)]}.

Site Notes: Riser needs extension. 2" pipe. At least a foot extension.

Follow-Up:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

610

Service Log

Site Name: Time: 11:07 Harvard/Jackson Date: 28-Jun-13 Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 613 0.011 0.032 0.0054

Tx Maintenance

Test Transmission

11:11

11:12

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

Port	Time	Count	Measure	Predicted
613	11:08	1051	5.18 psi	962
613	11:09	823	4.06 psi	755
613	11:10	629	3.11 psi	580

422

219

2.09 psi

1.09 psi

392

207

Problem:

Action Taken: TB OK. Recalibrated PT.

{Auto Entry: Calibrated sensor 613 by linear regression. Modified calibration data. New calibration [Slope(0.0113), Calibration Offset(0.0320), Std Error(0.0054), Calibration

613

613

Date(6/28/2013 11:12:51 AM)]}.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 620

Service Log

Site Name: Quincy/Highline Date: 06-Feb-13 Time: 10:47
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 15788 620
TB J 18560 620
BY R 1214 620

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0620-00E
Jumpers: 5 off

Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1214 13.19

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 620
 10:59
 1
 0

 620
 11:00
 2
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

620

Site ID:

Service Log

Site Name: Quincy/Highline Date: 12-Nov-13 Time: 11:07

Service Type: End of Season Technician: ZC Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TB, TXR and Battery. Site down for end of season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 620

Service Log

Site Name:Quincy/HighlineDate:25-Jul-13Time:10:53Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 620 10:53 160 0

620 10:54 161 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 630

Service Log

Site Name: Temple Pond Date: 07-Mar-13 Time: 16:42
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 8697 630
TB J 18549 630
BY R 1249 630

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0630-00E

Jumpers: C:JB3,5 off, JB6 1-2

Eprom: 3 min sample

*Tx Freq:* **169.500** 

Rx Freq:

Fwd Power: 3.8
Rev Power: 0.0
SWR: 1

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1249 13.18

Port Time Count Measure Predicted 630 11:29 1 0 11:29 630 2 0 633 11:16 794 3.71 psi 785 633 11:19 302 1.37 psi 299

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID: 630

Service Log

Site Name: Date: 12-Nov-13 Time: 11:39 **Temple Pond** 

Service Type: End of Season Technician: ZC Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 633 11:49 1067 5.09 psi 1096 633 11:52 451 460 2.11 psi

Problem:

Action Taken: Tested PT. PT OK. Removed TXR, battery and TB for end of season. PT raised.

Site Notes:

Follow-Up: Check PT calibration at Spring 2014 start up

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 630

Service Log

Site Name: Temple Pond Date: 28-Jun-13 Time: 12:43
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 633
 12:45
 656
 3.09 psi
 656

 633
 12:48
 301
 1.40 psi
 306

Problem:

Action Taken: TB OK. PT OK.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

Site ID: 630

Service Log

Site Name: **Temple Pond** Date: 09-Sep-13 Time: 10:38 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 633 0.011 -0.0951 0.0304

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Measure		Predicted
630	10:47	440			0
630	10:47	441			0
633	10:42	1369	6.38	psi	1340
633	10:45	2009	9.39	psi	1965
633	10:48	1011	4.70	psi	992
633	10:51	473	2.18	psi	467
633	10:54	58	0.23	psi	62
633	10:57	1100	5.13	psi	1105
633	11.00	269	1 23	nei	271

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Two point PT test failed. PT recalibrated. PT OK Site OK

{Auto Entry: Calibrated sensor 633 by linear regression. Modified calibration data. New calibration [Slope(0.0108), Calibration Offset(-0.0951), Std Error(0.0304), Calibration

Date(9/9/2013 10:54:59 AM)]}.

Site Notes:

Follow-Up:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 640

Service Log

Site Name: Goldsmith/E'man Date: 12-Nov-13 Time: 12:35

Service Type: End of Season Technician: ZC Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

12:47

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted 643 12:40 1719 9.11 psi 1860 12:43 643 1714 1858 9.10 psi 643 12:44 1298 1444 7.09 psi 12:45 643 882 5.07 psi 1028 643 12:46 477 3.09 psi 620

61

1.05 psi

201

Problem:

Action Taken: Tested PT. Check PT zero and span at start up. Removed TXR, battery and TB. Raised PT for

643

end of season.

Site Notes:

Follow-Up: Check PT cal, span and zero at Spring 2014 start up.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

640

Site ID:

Service Log

Site Name: Date: Time: 11:47 Goldsmith/E'man 08-Mar-13 Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location TB J 18554 640 BY R 0348 640

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Time

12:08

12:08

12:00

12:01

Port

640

640

643

643

Part # Ref V Freg Err Deviation ROM Batt

Count

2

2

985

378

Measure Predicted

4.82 psi

1.86 psi

0

0

982

377

Settings and Performance

0640-00E Switches:

Jumpers: C:J6,1-2,J3,5off; L:J9,10 1

Eprom: R1.8 57FE Tx Freq: 169.525

Rx Freq:

Fwd Power: 2.9 Rev Power: 0.0 SWR:

**Battery Tests** 

Battery # V Quiescent V Load BY R 0348 13.00 13.07

Problem:

Action Taken: Start Up. RF OK. PT OK. TB OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

640

Service Log

Site Name: Goldsmith/E'man Date: Time: 12:11 28-Jun-13 Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 643 12:17 452 2.13 psi 432 12:18 224 206 643 1.02 psi

Problem:

Action Taken: TB OK. PT OK.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

640

Service Log

Site Name: Time: 14:26 Goldsmith/E'man Date: 06-Sep-13 Technician: NK Service Type: Inspection Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 643 0.011 0.1763 0.0508

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count Measure			Predicted		
643	14:32	1451	7.12	psi	1504		
643	14:33	1908	9.33	psi	1964		
643	14:34	1084	5.34	psi	1134		
643	14:35	524	2.62	psi	569		
643	14:36	66	0.40	psi	107		
643	14:37	1242	6.09	psi	1239		
643	14.38	313	1 59	nei	312		

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Two point PT test failed. PT recalibrated. PT OK PT riser flushed. Site OK

> {Auto Entry: Calibrated sensor 643 by linear regression. Modified calibration data. New calibration [Slope(0.0112), Calibration Offset(0.1763), Std Error(0.0508), Calibration Date(9/6/2013 2:36:41 PM)]}.

Site Notes:

Follow-Up:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 640

Service Log

Site Name: Goldsmith/E'man Date: 25-Jul-13 Time: 10:06
Service Type: OneRain Service Ca Technician: NK Status: OK

**Configuration Changes** 

Part # Location **BY R 0305 640** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 643 0.011 -0.2742 0.0782

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 0640-00E

Jumpers: C:J6,1-2,J3,5off; L:J9,10 1

Eprom: R1.8 57FE Tx Freq: 169.525

Rx Freq:

 Fwd Power:
 3.2

 Rev Power:
 0.1

 SWR:
 1.43

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0348 13.13

Test Transmission						
Port	Time	Count	Measure		Predicted	
640	10:38	1			0	
640	10:38	2			0	
643	10:22	1917	9.14	psi	1864	
643	10:24	1487	7.07	psi	1441	
643	10:25	1135	5.37	psi	1093	
643	10:26	634	2.95	psi	599	
643	10:27	29	0.02	psi	2	

**Problem:** Site completely down

Action Taken: Bad battery. Volts were 2.01. Changed out battery. Site now works. Two point PT test failed. Re-

calibrated PT. PT OK TB received two tips. TB OK Site operational.

{Auto Entry: Calibrated sensor 643 by linear regression. Modified calibration data. New calibration [Slope(0.0111), Calibration Offset(-0.2742), Std Error(0.0782), Calibration

Date(7/25/2013 10:27:32 AM)]}.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

650

Site ID:

Service Log

Site Name: Iliff Pond Date: 11-Apr-13 Time: 9:57
Service Type: OneRain Service Ca Technician: MZ/NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

. Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Tested PT's. Both Signal Conditioning units appear to be bad. Canal PT tested bad. Follow up

site visit to verify Signal Conditioning units required.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

650

Site ID:

Service Log

Site Name: Iliff Pond Date: 08-Mar-13 Time: 12:21
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 18531 650
TB J 18583 650
BY R 1024 650

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 654 0.011 0.2642 0.0481

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

TB J 18583 13.23

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
650	13:02	1			0
650	13:02	2			0
654	12:47	1071	5.10	psi	1108
654	12:48	821	3.94	psi	857
654	12:49	598	2.92	psi	633
654	12:50	409	2.02	psi	439
654	12:51	176	0.93	psi	200

Problem:

Action Taken: Start Up. PT 654 new calibration. PT 653 unresponsive. TB OK. RF OK.

{Auto Entry: Calibrated sensor 654 by linear regression. Modified calibration data. New calibration [Slope(0.0107), Calibration Offset(0.2642), Std Error(0.0481), Calibration

Date(3/8/2013 12:52:58 PM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 650

Service Log

Site Name: **Iliff Pond** Date: 24-Apr-13 Time: 11:49 Technician: NK/SB Service Type: OneRain Service Ca Status: OK

**Configuration Changes** 

Part # Location PT D 886724 650

Transducer Calibration

Sensor ID Calib Offset Slope Std Error 653 0.011 -0.1862 0.0554 654 0.012 0.018 0.0047

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
650	12:36	57			0
650	12:37	58			0
653	12:04	1999	9.24	psi	1909
653	12:05	1554	7.23	psi	1492
653	12:06	1087	5.03	psi	1034
653	12:07	636	2.90	psi	591
653	12:08	216	0.91	psi	179
653	12:09	1297	6.01	psi	1302
653	12:10	611	2.78	psi	611
654	12:19	1720	9.04	psi	1924
654	12:20	1329	6.98	psi	1481
654	12:22	1068	5.62	psi	1186
654	12:23	615	2.24	psi	457
654	12:23	209	1.10	psi	213

Problem: Stream PT Down

Action Taken: Stream PT bad. Replaced PT and calibrated. Adjusted zero and span on detention pond signal

conditioning. Recalibrated PT. Both PTs OK with good hydraulic contact.

(Auto Entry: Calibrated sensor 653 by linear regression. Modified calibration data. New calibration [Slope(0.0108), Calibration Offset(-0.1862), Std Error(0.0554), Calibration Date(4/24/2013 12:08:30 PM)]}.

{Auto Entry: Calibrated sensor 654 by linear regression. Modified calibration data. New calibration [Slope(0.0121), Calibration Offset(0.0180), Std Error(0.0047), Calibration

Date(4/24/2013 12:28:49 PM)]}.

Site Notes: 653 is stream, 654 is detention pound. 653 is green wire and 654 is white wire going to

transmitter. Installed 75 ft PT stream side

Follow-Up: captive nuts on top section

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 650

Service Log

Site Name: Iliff Pond Date: 28-Jun-13 Time: 11:41
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 654 0.012 0.0314 0.0041

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

 Switches:
 0659-00E

 Jumpers:
 3,4,5 0ff

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
653	11:51	748	3.57	psi	731
653	11:52	356	1.71	psi	345
654	11:56	781	4.12	psi	862
654	11:57	650	3.42	psi	713
654	11:58	533	2.81	psi	582
654	11:59	348	1.84	psi	373
654	12:00	191	1.02	psi	194

Problem:

Action Taken: TB OK. PT 653 OK. Recalibrated PT 654.

{Auto Entry: Calibrated sensor 654 by linear regression. Modified calibration data. New calibration [Slope(0.0121), Calibration Offset(0.0314), Std Error(0.0041), Calibration

Date(6/28/2013 12:00:31 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 650

Service Log

Site Name: Iliff Pond Date: 22-Apr-13 Time: 10:16
Service Type: Service Call Technician: SB/NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: PT stuck in conduit. Need to replace 10 foot stick. 1/2". 654 is working. located near steps.

Site Notes: Red tape PT is located at pond.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 650

Service Log

Site Name: Iliff Pond Date: 12-Nov-13 Time: 13:12

Service Type: End of Season Technician: ZC Status: Site Down

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 653
 13:15
 461
 2.15 psi
 446

653 13:16 1093 5.11 psi 1067 654 13:23 411 2.15 psi 407 654 13:24 966 5.08 psi 965

Problem:

Action Taken: Tested PTs. Removed TXR, battery and TB. Raised PTs for end of season.

Site Notes:

Follow-Up: Check cal on 653 on Spring 2014 start up. Check hydraulic contact on 653. Stand pipe needs

captive nuts.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 650

Service Log

Site Name: Iliff Pond Date: 06-Sep-13 Time: 12:44
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0814
 650

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power:

SWR:

Rev Power:

Battery Tests
Battery #

V Quiescent V Load

BY R 0814 13.14

Test Tra	nsmission			
Port	Time	Count	Measure	Predicted
650	13:14	1		0
650	13:15	2		0
650	13:16	3		0
650	13:16	4		0
653	13:05	1405	6.83 psi	1427
653	13:06	243	1.20 psi	247
654	12:59	359	1.90 psi	361
654	13:00	1103	5.82 psi	1109

**Problem:** low battery

Action Taken: TB clean and clear on arrival. TB OK Two point test passed for both PT's. Current cal good. PT's

OK Replaced battery. Site OK

Site Notes: All the captive nuts are gone. Needs new nuts

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 650

Service Log

Site Name: Iliff Pond Date: 26-Apr-13 Time: 10:14
Service Type: Service Call Technician: NK/MZ Status: OK

**Configuration Changes** 

Part # Location PT D 3570759 650

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 653 0.011 0.0502 0.0146

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
650	12:35	60			0
650	12:35	61			0
653	12:20	2031	6.70	psi	1448
653	12:20	1533	7.32	psi	1580
653	12:21	1097	5.24	psi	1137
653	12:21	662	3.17	psi	694
653	12:23	446	2.14	psi	475
653	12:23	209	1.01	psi	234
653	12:24	26	0.14	psi	48
653	12:26	1902	9.08	psi	1957
653	12:26	1495	7.15	psi	1544
653	12:27	1045	5.01	psi	1087
653	12:27	590	2.84	psi	625
653	12:28	194	0.94	psi	217

Problem:

Action Taken: {Auto Entry: Calibrated sensor 653 by linear regression. Modified calibration data. New

calibration [Slope(0.0110), Calibration Offset(0.0502), Std Error(0.0146), Calibration

Date(4/26/2013 12:28:21 PM)]}.

Installed new PT stream side (653). PT ok, TB OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 700

Service Log

Site Name: Tollgate at 6th Date: 28-Mar-13 Time: 12:22
Service Type: Start Up Technician: MZ/BL Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 0700-00E

 Jumpers:
 JB 3-5 off

 Eprom:
 R 1.8 57EE

 Tx Freq:
 169.525

Rx Freq:
Fwd Power:
Rev Power:
SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 700
 12:25
 177
 0

 700
 12:25
 178
 0

Problem:

Action Taken: RF OK. TB OK. Disabled Bubble transmissions. SWR = 1.06

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

700

Site ID:

Service Log

Site Name: Date: 29-Jan-13 Time: 11:54 Tollgate at 6th Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq: Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed frequency to 169.500 Mhz

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 700

Service Log

Site Name: Tollgate at 6th Date: 25-Jul-13 Time: 13:52
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 700
 13:53
 312
 0

 700
 13:54
 313
 0

Problem:

Action Taken: TB clear and clean on arrival. TB received two tips. TB OK Site OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 710

Service Log

Site Name: Horseshoe Park Date: 21-Mar-13 Time: 13:24
Service Type: Start Up Technician: SB/FL Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 8694
 710

 TB J 10739
 710

 BY R 0909
 710

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error 713 0.011 -0.1049 0.0239

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0909 12.94

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
710	13:50	1			0
713	13:37	1965	9.09	psi	1847
713	13:38	1542	7.12	psi	1448
713	13:39	1040	4.78	psi	976
713	13:40	671	3.08	psi	631
713	13:41	283	1.27	psi	265
713	13:42	859	3.95	psi	861

Problem:

Action Taken: Installed battery TXR, TB, desiccant and lowered PT. Calibrated PT. replaced top screen to TB. RF OK. Tb OK.

{Auto Entry: Calibrated sensor 713 by linear regression. Modified calibration data. New calibration [Slope(0.0107), Calibration Offset(-0.1049), Std Error(0.0239), Calibration Date(3/21/2013 1:41:18 PM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

710

Site ID:

Service Log

Site Name: Horseshoe Park Date: 12-Nov-13 Time: 13:18

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 713 0.011 -0.1141 0.0236

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
713	13:20	1256	5.99	psi	1197
713	13:21	1901	9.10	psi	1814
713	13:21	1468	7.01	psi	1399
713	13:21	698	3.31	psi	663
713	13:22	264	1.22	psi	248
713	13:22	921	4.37	psi	919
713	13.23	581	2 75	nei	581

Problem:

Action Taken: Two point PT test failed. Re-calibrated PT. PT OK. PT up. TXR out, TB out. Flushed PT riser.

Site down for winter.

{Auto Entry: Calibrated sensor 713 by linear regression. Modified calibration data. New calibration [Slope(0.0111), Calibration Offset(-0.1141), Std Error(0.0236), Calibration

Date(11/12/2013 1:22:27 PM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 710

Service Log

Site Name: Horseshoe Park Date: 27-Jun-13 Time: 14:27
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 713 0.012 -0.0166 0.0051

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: **00E**Jumpers: **JB3&5** 

Eprom: R1.8 9CA1

*Tx Freq:* **169.525** 

Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
713	14:44	996	4.99	psi	1086
713	14:45	793	3.97	psi	866
713	14:46	598	2.98	psi	653
713	14:47	399	2.00	psi	440

193

0.97 psi

218

Problem:

Action Taken: TB Clogged. Cleaned. TB OK. PT recalibrated.

{Auto Entry: Calibrated sensor 713 by linear regression. Modified calibration data. New calibration [Slope(0.0116), Calibration Offset(-0.0166), Std Error(0.0051), Calibration

713

14:48

Date(6/27/2013 2:49:01 PM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

710

Site ID:

Service Log

Site Name: Horseshoe Park Date: 20-Aug-13 Time: 13:07
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 713 0.012 -0.063 0.0162

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
713	13:32	629	3.13	psi	683
713	13:33	1782	8.92	psi	1932
713	13:34	1374	6.87	psi	1490
713	13:35	1001	5.00	psi	1087
713	13:36	111	0.53	psi	124
713	13:37	1211	6.04	psi	1207
713	13:38	277	1.36	psi	276

Problem:

Action Taken: TB clogged on arrival. TB cleaned. TB received two tips. TB OK Two point PT test failed. PT re-

calibrated. PT OK Site OK

{Auto Entry: Calibrated sensor 713 by linear regression. Modified calibration data. New calibration [Slope(0.0116), Calibration Offset(-0.0630), Std Error(0.0162), Calibration

Date(8/20/2013 1:36:51 PM)]}.

**Site Notes:** gate lock is a master type key. numbers hard to read on key #2396

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 720

Measure Predicted

4.68 psi

2.28 psi

psi

psi

6.14

2.25

0

0

0

941

461

483

1299

Service Log

Site Name: Time: 14:36 **Confluence Pond** Date: 08-Mar-13 Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location TX J 11034 720 TB J 19636 720 BY R 0324 720

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Time

15:12

15:12

15:12

14:51

14:52

15:00

15:01

Port

720

720

720

723

723

724

724

Part # Ref V Freq Err Deviation ROM Batt

Count

1

2

3

942

462

1285

476

Settings and Performance

Switches: 0720-00E

Jumpers: C: JB6(12), J3,4 off;L:JB8,

Eprom: R 1.1.1 5C58

Tx Freq: 169.525

Rx Freq:

Fwd Power: 4.2 Rev Power: 0.1 1.36 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0324 13.15 4.20

Problem:

Action Taken: Installed TXR, Battery, Desiccant, and TB. RF OK. Tb OK. PT OK. Flushed pond PT intake.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 720

Service Log

Site Name: Confluence Pond Date: 09-Aug-13 Time: 12:33
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

rest rra	nsmission				
Port	Time	Count	Measu	ure	Predicted
720	12:49	19			0
720	12:49	20			0
720	12:49	21			0
723	12:45	1063	5.33	psi	1073
723	12:46	440	2.20	psi	445
724	12:39	483	2.27	psi	487
724	12:40	1078	5.16	psi	1094

Problem:

Action Taken: Both PT's tested within acceptable range. TB OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 720

Service Log

Site Name: Confluence Pond Date: 09-Oct-13 Time: 13:46

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 723 13:51 493 2.43 psi 490 630 723 13:52 627 3.12 psi 13:57 736 708 724 3.32 psi 410 724 13:58 438 1.90 psi

Problem:

Action Taken: PT tested within acceptable range. Removed TXR, Battery, TB, and desiccant for the season.

Pulled up PT. Flushed riser with pump.

Site Notes:

Follow-Up: calibrate pond PT.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 720

Service Log

Site Name:Confluence PondDate:27-Jun-13Time:13:50Service Type:InspectionTechnician:MZStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 723
 14:01
 581
 2.92 psi
 590

723 14:02 201 1.00 psi 205 724 13:55 898 4.29 psi 911 724 13:56 424 2.01 psi 433

Problem:

Action Taken: TB OK. PTs (2) OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 720

Service Log

Site Name:Confluence PondDate:25-Jul-13Time:12:11Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1204
 720

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq: Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0324 12.99

Test Transmission

Port Time Count Measure Predicted

720 12:22 1 0 12:23 2 0 720 720 12:23 3 0 12:23 4 0 720

Problem:

Action Taken: Replaced battery. TB clean and clear. TB tipped four times. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

730

Site ID:

1 30

Service Log

Site Name: No Name @ Quincy Date: 09-Oct-13 Time: 11:37

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 733 11:41 351 1.63 psi 372

33 11:41 351 1.63 psi 372

Problem:

Action Taken: PT tested within acceptable range. Removed TXR, Battery, TB, and desiccant for the season.

Pulled up PT.

Site Notes:

Service Log

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 730

ONERAIN INCORPORATE

Site Name:No Name @ QuincyDate:05-Sep-13Time:9:33Service Type:OneRain Service CaTechnician:NK/SBStatus:OK

**Configuration Changes** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 733 0.011 -0.0343 0.0144

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
733	10:08	1978	9.33	psi	2148
733	10:09	1426	6.73	psi	1549
733	10:10	1934	9.15	psi	2107
733	10:11	497	2.34	psi	536
733	10:12	1068	5.03	psi	1156
733	10:12	75	0.35	psi	76
733	10:15	770	3.62	psi	769
733	10:16	1611	7.59	psi	1610

**Problem:** Over reporting PT

Action Taken: Replaced PT. Calibrated new PT. Adjusted zero and span on sig board.

{Auto Entry: Calibrated sensor 733 by linear regression. Modified calibration data. New calibration [Slope(0.0109), Calibration Offset(-0.0343), Std Error(0.0144), Calibration

Date(9/5/2013 10:13:08 AM)]}.

Site Notes: 50 ft PT will work fine, 75ft not needed.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 730

Service Log

Site Name: No Name @ Quincy Date: 21-Aug-13 Time: 13:40
Service Type: Repair Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

nsmission			
Time	Count	Measure	Predicted
13:52	31		0
13:52	32		0
13:53	33		0
13:53	34		0
13:54	35		0
13:45	1468	6.36 psi	1463
13:46	362	1.57 psi	358
	Time 13:52 13:52 13:53 13:53 13:54 13:45	Time Count 13:52 31 13:52 32 13:53 33 13:53 34 13:54 35 13:45 1468	Time         Count         Measure           13:52         31           13:52         32           13:53         33           13:53         34           13:54         35           13:45         1468         6.36 psi

**Problem:** Stand pipe leaning over too far for tipping bucket to catch rain accurately.

Action Taken: Dug up stand pipe, re-leveled, and poured concrete. Two point PT test passed. Current PT cal

good. PT OK TB received five tips. TB OK Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

730

Site ID:

Service Log

Site Name: No Name @ Quincy Date: 27-Jun-13 Time: 13:25
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 733
 13:30
 792
 3.45 psi
 791

 733
 13:31
 479
 2.08 psi
 477

Problem:

Action Taken: PT OK, TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 730

Service Log

Site Name: No Name @ Quincy Date: 16-Sep-13 Time: 15:37
Service Type: OneRain Service Ca Technician: GH Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1024
 730

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Bad rain reports.

Action Taken: TB intermittent. Replaced (s/n unknown). Batt & desiccant changed, TB leveled & test

transmissions verified.

Site Notes: Follow-Up:

ONERAIN INCORPORATED 18-Dec-13

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 730

Service Log

Site Name: No Name @ Quincy Date: 09-Aug-13 Time: 10:58
Service Type: Service Call Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission				
Port	Time	Count	Measure	Predicted
730	11:00	15		0
730	11:12	16		0
730	11:12	17		0
730	11:22	18		0
730	11:25	19		0
730	11:26	20		0
733	11:05	1225	5.31 psi	1220
733	11:06	510	2.20 psi	503

**Problem:** TB under reporting.

Action Taken: TB was not clogged. TB appears to be operation. Site is listing approx. 15deg possibly causing

rain to be missed.

PT tested within acceptable range.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 730

Service Log

Site Name: No Name @ Quincy Date: 08-Mar-13 Time: 13:41
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location
TX J 15783 730
TB J 19644 730
BY R 0636 730

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 0730-00E

 Jumpers:
 3,5 Off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 4.3

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0636 13.24

Test Transmission Port Time Count Measure Predicted 730 14:13 1 0 14:13 730 2 0 13:59 1387 5.97 psi 1372 733 733 14:00 379 1.61 psi 367

Problem:

Action Taken: Installed TXR, TB, Battery, Desiccant, and lowered PT. Flushed PT intake. RF OK. PT OK. TB

OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 740

Service Log

Site Name: Smoky Hill Date: 29-Jul-13 Time: 13:31
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** ALERT down

Action Taken: Verified ALERT was transmitting via ALERT2 TX. Checked ALERT amp. Pushing 20 to 25 watts

during TX. ALERT TX antenna SNR = 1.2. Replaced AC to DC charger on ALERT2 battery.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 740

Service Log

Site Name: Smoky Hill Date: 19-Feb-13 Time: 14:46
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq: Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY K 0001 13.46

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Checked AC trickle charge due to concern of low output. Correct model is installed (500mA).

RF Ok. AC OK.

Site Notes: Follow-Up:

ONERAIN INCORPORATED 18-Dec-13

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 740

Service Log

Site Name: Smoky Hill Date: 21-Jun-13 Time: 13:47
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Low ALERT reports

Action Taken: Replaced ALERT transmit radio. Turned ON power amplifier. Output is 15 watts.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 750

Service Log

Site Name: Quincy Reservoir Date: 26-Jun-13 Time: 11:04
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1032
 750

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

**Action Taken:** Replaced battery due to low voltage. Poor solar connection, repaired.. RF OK. TXR OK. TB OK. Solar tests OK.

Wind OK. @ 11:12 ID 751 raw =50 => 12.23% RH, ID 752 raw = 288 => 86.75 deg.F,

psychrometer readings Td = 90 deg.F, Tw = 62 deg.F implying RH = 21% and dp = 45 deg.F. TB

OK.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 750

Service Log

Site Name: Quincy Reservoir Date: 28-Mar-13 Time: 13:27
Service Type: Start Up Technician: MZ/BL Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1247
 750

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1247 13.46

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery, desiccant. RF OK. TXR OK. TB OK. Solar tests OK, rechecked all

connections, voltages, ohmed out. SWR = 1.08

Wind OK. @ 13:34 ID 751 raw = 119 => 29.1% RH, ID 752 raw = 222 => 57.7 deg.F,

psychrometer readings Td = 61 deg.F, Tw = 47 deg.F implying RH = 36% and dp = 37 deg.F. TB

OK.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

750

Site ID:

Service Log

Site Name: Quincy Reservoir Date: 12-Nov-13 Time: 11:47
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1003
 750

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX J 239 333 2 0.00

Settings and Performance

Switches: 0750-0012-1312-1111

Jumpers: 2km wind run

Eprom: B

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1003 13.21

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 750
 12:06
 1
 0

 750
 12:06
 2
 0

Problem:

Action Taken: Replaced battery and desiccant. Tested TXR with IFR. TXR on outer limits of specs. Consider

replacing radio. TB clean and clear on arrival. TB OK.

Station readings @ 11:53 AT = 57.2F = raw = 221. RH = 28.3% = raw = 116. WS = 3.08 mph =

raw = 609. Anemometer free of movement. Readings are good.

Digital Psycrometer @ 12:04 AT = 66F. RH = 17.0%.

Site Notes:

Follow-Up: Replace Radio in spring 2014.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 750

Service Log

Site Name: Quincy Reservoir Date: 09-Aug-13 Time: 11:53
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted 750 11:59 25 0

 750
 11:59
 25
 0

 750
 12:00
 26
 0

 750
 12:01
 27
 0

Problem:

Action Taken: Wind OK. @ 11:47 ID 751 raw = 142 => 34.7% RH, ID 752 raw = 259 => 73.9 deg.F,

psychrometer readings RH = 32% and Temp = 79.5 deg. TB OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 760

Service Log

Site Name: Mission Viejo Pk Date: 09-Oct-13 Time: 12:41

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for the season.

Site Notes:

Follow-Up: Needs new captive nuts

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 760

Service Log

Site Name: Mission Viejo Pk Date: 05-Feb-13 Time: 11:03
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 18534
 760

 TB J 8453
 760

 BY R 1021
 760

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0760-00E
Jumpers: 5 off

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1021 12.96

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 760
 11:16
 1
 0

 760
 11:18
 2
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 760

Service Log

Site Name: Mission Viejo Pk Date: 25-Jul-13 Time: 11:40
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1201 13.24

Test Transmission

Port Time Count Measure Predicted 760 11:53 1 0

760 11:53 1 0 760 11:53 2 0

Problem:

Action Taken: changed out battery. TB clear and clean on arrival. TB received two tips.TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 800

Service Log

Site Name: Sable Ditch Date: 21-Mar-13 Time: 14:41
Service Type: Start Up Technician: SB/FL Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
800 14:47 5 0

800 14:47 6 0 803 14:46 1461 6.96 psi 1462 803 14:47 458 2.16 psi 455

Problem:

Action Taken: Installed TXR, Battery, Desiccant, and TB. Lowered PT. PT tested within range. RF OK. TB

OK.

Site Notes: key 2396

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 800

Service Log

Site Name:Sable DitchDate:05-Sep-13Time:11:44Service Type:InspectionTechnician:ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

803

11:55

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted 800 11:55 223 0 11:55 224 800 0 803 11:54 1078 5.19 psi 1092

453

2.15 psi

Problem:

Action Taken: PT tested within acceptable range. TB OK

Site Notes: Follow-Up:

454

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 800

Service Log

Site Name:Sable DitchDate:09-Jul-13Time:12:59Service Type:InspectionTechnician:MZStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 803
 13:02
 968
 4.66 psi
 980

 803
 13:03
 535
 2.56 psi
 541

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 800

Service Log

Site Name: Sable Ditch Date: 11-Apr-13 Time: 13:55
Service Type: OneRain Service Ca Technician: MZ/NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Bad RF cable from Polyphaser to Antenna. Temp replacement installed

Site Notes: Install N-type (M) to UHF (M) from polyphaser to antenna. Polyphaser is currently bypassed.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 800

Service Log

Site Name: Date: Time: 14:32 Sable Ditch 13-Nov-13

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 803 0.011 -0.106 0.0332

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission					
Port	Time	Count	Meas	sure	Predicted	
803	14:40	1588	7.63	psi	1603	
803	14:41	1917	9.22	psi	1937	
803	14:42	1033	4.95	psi	1041	
803	14:43	535	2.54	psi	535	
803	14:44	9	0.00	psi	3	
803	14:45	1564	7.51	psi	1569	
803	14:46	423	1.99	psi	424	

Problem:

Action Taken: Two point PT test failed. Re-calibrated PT. PT OK. PT pulled up. TXR out, TB out. Site down.

{Auto Entry: Calibrated sensor 803 by linear regression. Modified calibration data. New calibration [Slope(0.0111), Calibration Offset(-0.1060), Std Error(0.0332), Calibration

Date(11/13/2013 2:44:28 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

800

Site ID:

Service Log

Site Name: Sable Ditch Date: 12-Mar-13 Time: 13:48
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 15785
 800

 TB J 29967
 800

 BY R 1246
 800

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1246 13.12

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Start Up. RF OK, TB OK. PT to be installed at later date.

Site Notes: Install PT, need new 2" riser cap

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 810

Service Log

Site Name:Grandby DitchDate:20-Aug-13Time:14:26Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Meas	ure	Predicted		
810	14:33	221			0		
810	14:34	222			0		
813	14:29	1271	6.16	psi	1281		
813	14:30	403	1.95	psi	406		

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Two point PT test passed. PT OK

Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 810

Service Log

Site Name: Grandby Ditch Date: 13-Nov-13 Time: 13:38

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 813
 13:44
 1547
 7.47 psi
 1553

 813
 13:45
 437
 2.10 psi
 437

Problem:

Action Taken: End of season. Two point PT test passed. PT OK.PT pulled up. TXR out, TB out. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 810

Service Log

Site Name: Grandby Ditch Date: 12-Mar-13 Time: 14:29
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 15787 810
TB J 10735 810
BY R 0603 810

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 0603 13.03

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 813
 14:37
 917
 4.32 psi
 898

 813
 14:38
 289
 1.32 psi
 275

Problem:

Action Taken: Start Up. RF OK, TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 810

Service Log

Site Name:Grandby DitchDate:05-Jun-13Time:13:09Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
810 13:17 107 0

813 13:12 1032 4.96 psi 1032 813 13:13 398 1.90 psi 396

Problem:

Action Taken: PT tested within acceptable range. PT OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 820

Service Log

Site Name: ETG @ Buckley Date: 20-Aug-13 Time: 14:02
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted

820 14:16 186 0 823 14:11 1293 6.14 psi 1296 823 14:12 312 1.41 psi 304

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Two point PT test passed. PT cal

good. PT OK Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 820

Service Log

Site Name: ETG @ Buckley Date: 12-Nov-13 Time: 13:56

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 823
 13:57
 949
 4.51 psi
 953

 823
 13:58
 445
 2.10 psi
 448

Problem:

Action Taken: Two point PT test passed. PT OK. PT up. TXR out, TB out, for season end. Site down.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

820

Site ID:

Service Log

Site Name: Time: 14:53 ETG @ Buckley Date: 18-Mar-13 Service Type: Start Up Technician: GH Status: OK

**Configuration Changes** 

Part # Location TB J 23319 820 BY R 0335 820

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

0820-3-0 Switches:

Jumpers: C:J6,1-2,J3,5off;L:J9,10,1-

Eprom: R1.8 9CA1 Tx Freq: 169.500

Rx Freq:

Fwd Power: 4.6 Rev Power: 0.2 1.53 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

TB J 23319 13.29 BY R 0335 13.14

Test Tra	nsmission				
Port	Time	Count	Measu	ıre	Predicted
820	15:38	1			0
820	15:54	2			0
820	15:54	3			0
820	15:58	4			0
820	15:59	5			0
823	15:31	1038	4.94	psi	1044
823	15:32	429	2.02	psi	432

Problem:

Action Taken: Installed TX, TB, BY. Cleaned and leveled. Checked PT and dropped.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 820

Service Log

Site Name: ETG @ Buckley Date: 05-Jun-13 Time: 13:23
Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 820 13:32 72 0 820 13:32 74 0 823 13:30 1139 5.41 psi 1143 13:31 823 333 1.55 psi 333

Problem:

Action Taken: PT tested within acceptable range. PT OK. TB OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

830

Site ID:

Service Log

Site Name: Date: 05-Feb-13 Time: 10:36 Side Creek Park Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location TX J 11037 830 TB J 23294 830 830 BY R 0810

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0830-3-D

Jumpers: Eprom:

Tx Freq: 169.500

Rx Freq:

Fwd Power: 4.0 Rev Power: 0.1 1.38 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0810 12.87 Test Transmission

Port Time Count Measure Predicted 830 10:47 1 0 10:49 0 830 2

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 830

Service Log

Site Name:Side Creek ParkDate:25-Jul-13Time:12:33Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1220
 830

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

830

830

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0810 13.08

Test Transmission

Port Time Count Measure Predicted

830 12:36 0 0

1

2

12:41

12:42

Problem:

Action Taken: Changed out battery. TB was cleaned. Some debris. TB received two tips. TB OK Site OK

Site Notes: Follow-Up:

0

0

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 830

Service Log

Site Name: Side Creek Park Date: 12-Nov-13 Time: 13:40

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for the season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

840

Site ID:

Service Log

Site Name: Aurora FS 12 Date: 05-Feb-13 Time: 10:03
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TB J 12717 840
BY R 1236 840

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1236 13.02

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 840
 10:14
 1
 0

 840
 10:14
 2
 0

Problem:

Action Taken: Installed TB, battery, desiccant. Changed frequency to 169.500 MHz. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

840

Site ID:

Service Log

Site Name: Aurora FS 12 Date: 25-Jul-13 Time: 14:11
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 840 14:12 203 0

840 14:12 203 0 0 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 840

Service Log

Site Name: Aurora FS 12 Date: 13-Nov-13 Time: 12:13

Service Type: End of Season Technician: NK Status: Site Down

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced dessicant.TB out, Battery out. End of season. Test TXR with watt meter. TXR OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 840

Service Log

Site Name: Aurora FS 12 Date: 16-Sep-13 Time: 13:54
Service Type: OneRain Service Ca Technician: GH Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:

Eprom: Tx Freq: Rx Freq: Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Plugged screen & funnel.

Action Taken: Cleaned & tested.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 850

Service Log

Site Name: Flying J Date: 09-Jul-13 Time: 13:41
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1322
 850

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1322 12.87

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced Battery. TB OK, PT OK>

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 850

Service Log

Site Name: Flying J Date: 15-Mar-13 Time: 13:40
Service Type: Start Up Technician: GH Status: OK

**Configuration Changes** 

 Part #
 Location

 TB J 16628
 850

 BY R 1204
 850

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 1.8

 Rev Power:
 0.5

 SWR:
 3.23

Battery Tests

Battery # V Quiescent V Load

TB J 16628 13.07 BY R 1204 13.03

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
850	14:09	1		0
850	14:15	2		0
850	14:15	3		0
850	14:24	4		0
850	14:24	5		0
850	14:34	6		0
850	14:34	7		0
853	14:20	1133	4.97 psi	1138
853	14:21	473	2.09 psi	475

Problem:

Action Taken: Installed PT and TB, leveled. High SWR. Broken elbow to PT pipe.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 850

Service Log

Site Name: Flying J Date: 16-Sep-13 Time: 14:34
Service Type: OneRain Service Ca Technician: GH Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0509
 850

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Low bat.

Action Taken: Changed batt. Enc damp, changed desc. Cleaned screen. Tested.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 850

Service Log

Site Name: Flying J Date: 13-Nov-13 Time: 11:30

Service Type: OneRain Service Ca Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** PT riser cap seized.

Action Taken: TXR out, PT conduit and PT out. Can not free cap to riser. Will take riser back to shop and

repair. TB out. Site down for winter

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 860

Service Log

Site Name: Sand Creek @ Colfax Date: 09-Jul-13 Time: 13:12
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 863
 13:18
 655
 3.16 psi
 642

 863
 13:19
 151
 0.75 psi
 153

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 860

Service Log

Site Name: Sand Creek @ Colfax Date: 13-Nov-13 Time: 13:13

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 863
 13:19
 1453
 7.17 psi
 1453

 863
 13:19
 391
 1.88 psi
 383

Problem:

Action Taken: End of season. Removed TB and Battery. Two point PT test passed. PT OK. PT up. Site down.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

860

Site ID:

Service Log

Site Name: Time: 12:35 Sand Creek @ Colfax Date: 18-Mar-13 Service Type: Start Up Technician: GH Status: OK

**Configuration Changes** 

Part # Location TB J 21330 860 BY R 1126 860

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: 169.525

Rx Freq:

Fwd Power: 2.0 Rev Power: 0.2 1.92 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

TB J 21330 12.87 BY R 1126 12.87

Test Transmission							
Port	Time	Count	Measure	Predicted			
860	14:06	1		0			
860	14:06	2		0			
860	14:09	3		0			
860	14:10	4		0			
863	14:04	3		0			
863	14:17	429	2.11 psi	429			
863	14:18	1039	5.12 psi	1038			

Problem:

Action Taken: Changed freq. Installed BY, TB, clean and leveled, checked and dropped PT.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

870

Site ID:

Service Log

Site Name: Time: 12:05 **Murphy Creek** Date: 21-Mar-13 Service Type: OneRain Service Ca Technician: SB/FL Status: OK

**Configuration Changes** 

Part # Location TB J 16621 870 BY R 0842 870

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 873 0.01 0.1224 0.0268

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: 169.500

Rx Freq:

Fwd Power: 3.5 Rev Power: 0.1 1.41 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
870	12:56	0			0
870	12:56	1			0
873	12:45	1918	8.37	psi	1885
873	12:46	1473	6.44	psi	1439
873	12:47	1142	5.00	psi	1107
873	12:48	673	2.97	psi	640
873	12:49	240	1.09	psi	206
873	12:50	1347	5.91	psi	1351

Problem:

Action Taken: Calibrated and lowered PT. PT has been drifting in the past. Will monitor before replacement.

TB OK. Replaced radio.

{Auto Entry: Calibrated sensor 873 by linear regression. Modified calibration data. New calibration [Slope(0.0100), Calibration Offset(0.1224), Std Error(0.0268), Calibration

Date(3/21/2013 12:49:23 PM)]}.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 870

Service Log

Site Name: Time: 9:55 **Murphy Creek** Date: 12-Nov-13

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 873 0.01 0.1494 0.0323

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission					
Port	Time	Count	Meas	sure	Predicted	
873	9:56	1196	5.25	psi	1162	
873	9:57	584	2.60	psi	555	
873	9:59	1803	7.89	psi	1764	
873	10:00	1496	6.55	psi	1459	
873	10:01	246	1.13	psi	221	
873	10:02	1289	5.65	psi	1289	
873	10:03	455	2.04	psi	455	

Problem:

Action Taken: Removed Battery, Desiccant, and pulled PT up for winter. Re-calibrated PT. RF OK.

{Auto Entry: Calibrated sensor 873 by linear regression. Modified calibration data. New calibration [Slope(0.0100), Calibration Offset(0.1494), Std Error(0.0323), Calibration Date(11/12/2013 10:01:48 AM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID: 870

Service Log

Site Name: Date: 27-Jun-13 Time: 11:24 **Murphy Creek** Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 873 11:33 1130 5.03 psi 1148 11:34 873 460 2.12 psi 477

Problem:

Action Taken: RF OK, PT OK, TB OK.

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 870

Service Log

Site Name: Murphy Creek Date: 20-Aug-13 Time: 12:18
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location **BY R 0637 870** 

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error 873 0.010 0.3804 0.1397

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

DL CS 25875 12.98

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
870	12:27	0			0
870	12:27	1			0
873	12:32	1402	6.24	psi	1427
873	12:34	2047	9.24	psi	2120
873	12:35	1816	8.06	psi	1847
873	12:36	1428	6.38	psi	1459
873	12:37	697	3.20	psi	726
873	12:38	267	1.34	psi	296
873	12:39	0	0.02	psi	-8
873	12:41	1125	5.10	psi	1163
873	12:42	2028	9.03	psi	2071
873	12:43	1561	6.97	psi	1595
873	12:44	663	3.08	psi	699
873	12:45	229	1.20	psi	265

**Problem:** Low battery

Action Taken: Changed out battery, TB clean and clear on arrival. TB received two tips. TB OK Two point PT

test failed. Re-calibrated PT. PT OK Site OK

{Auto Entry: Calibrated sensor 873 by linear regression. Modified calibration data. New calibration [Slope(0.0101), Calibration Offset(0.3804), Std Error(0.1397), Calibration

Date(8/20/2013 12:47:13 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 900

Service Log

Site Name: Aurora Res Wx Date: 29-Jan-13 Time: 13:10
Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed frequency to 169.500 Mhz

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

900

Site ID:

Service Log

Site Name: **Aurora Res Wx** Date: 12-Nov-13 Time: 10:55 Technician: NK/SB Service Type: End of Season Status: OK

**Configuration Changes** 

Part # Location BY R 1209 900

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

11:21

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: 169.525

Rx Freq:

Fwd Power: 4.5 Rev Power: 0.1 1.35 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1209 13.21

Time Count Measure Predicted Port 900 11:15 0 1 11:16 0 900 2 900 11:16 3 0 900 11:18 4 0

6

Problem:

Action Taken: Changed battery and desiccant. Tested solar. Solar OK. Station readings @ 11:02 AT = 55.1F =

raw = 951. RH = 33.1% = raw = 331. WS = 5.10 mph = raw = 51. WD = 268 deg. BP = 831

mbar. Solar Rad = 2.05 MJ/m2. TB clogged on arrival. TB cleaned. TB OK. Site OK.

900

Digital Psycrometer @ 11:05. AT = 56.4F. RH = 36.1%.

Original Radio 3.2 Watts. Replaced radio with new one 4.5 watts

Site Notes: Key: 900

Follow-Up:

0

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 900

Service Log

Site Name: Aurora Res Wx Date: 28-Mar-13 Time: 14:08
Service Type: Start Up Technician: MZ/BL Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1011
 900

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1011 13.02

Test Transmission

Port Time Count Measure Predicted 900 14:13 3 0

Problem:

Action Taken: Replaced Desiccant. RF OK. Solar OK. TB funnel partially clogged, cleaned. TB OK. Wind OK. @ 14:14 ID 901 raw = 293 => 29.3% RH, ID 902 raw = 996 => 60 deg. F. Psychrometer

readings Td = 61 deg.F, Tw = 47 deg.F implying RH = 36% and dp = 34 deg.F. SWR = 1.00

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

900

Site ID:

Service Log

Site Name: Aurora Res Wx Date: 26-Jun-13 Time: 10:34
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced Desiccant. RF OK. Solar OK. TB OK. Wind OK. @ 14:14 ID 901 raw = 155 => 15.5%

RH, ID 902 raw = 1256 => 86 deg. F. Psychrometer readings Td = 87 deg.F, Tw = 59 deg.F

implying RH = 19% and dp = 39 deg.F. SWR = 1.00

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 940

Service Log

Site Name: Aurora Regional Pond Date: 08-Mar-13 Time: 10:44

Service Type: Start Up Technician: SB Status: PT Down

**Configuration Changes** 

Part # Location
TX J 25152 940
TB J 10738 940
BY R 1243 940

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0940-00E
Jumpers: 3,5 Off

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1243 12.89

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 940
 11:19
 1
 0

 940
 11:20
 2
 0

**Problem:** PT Bad

Action Taken: Installed TXR, Battery, and desiccant. PT is bad. Not reading any mv. RF OK. TB OK.

Site Notes:

Follow-Up: Replace PT

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 940

Service Log

Site Name: Time: 11:54 **Aurora Regional Pond** Date: 27-Jun-13 Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location TX J 13313 940

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 943 0.012 -0.0053 0.0286

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
943	12:20	961	4.95	psi	992
943	12:21	795	4.01	psi	803
943	12:22	590	2.99	psi	599
943	12:23	395	2.01	psi	402
943	12:24	205	1.07	psi	213

Problem:

Action Taken: Replaced Transmitter. Not counting tips. TB sensor OK. PT OK.

{Auto Entry: Calibrated sensor 943 by linear regression. Modified calibration data. New calibration [Slope(0.0118), Calibration Offset(-0.0053), Std Error(0.0286), Calibration

Date(6/27/2013 12:24:37 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 940

Service Log

Site Name: Aurora Regional Pond Date: 09-Oct-13 Time: 10:05

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0940-00E
Jumpers: 3,5 Off

Eprom:

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 943
 10:08
 297
 1.45 psi
 289

 943
 10:09
 912
 4.50 psi
 901

Problem:

Action Taken: PT tested within acceptable range. Removed TXR, Battery, TB, and desiccant for the season.

Pulled up PT.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 940

Service Log

Site Name: Aurora Regional Pond Date: 20-Aug-13 Time: 10:40
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 940
 10:41
 61
 0

 940
 10:41
 62
 0

940 10:41 62 0 943 10:44 1229 6.19 psi 1240 943 10:45 392 2.00 psi 401

Problem:

Action Taken: TB clogged on arrival. TB cleaned. TB received two tips. TB OK Two point PT test passed.

Current cal good. PT OK Site OK

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 940

Service Log

Site Name: Time: 11:14 **Aurora Regional Pond** Date: 21-Mar-13 Service Type: OneRain Service Ca Technician: SB/FL Status: OK

**Configuration Changes** 

Part # Location PT D 2841955 940

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 943 0.012 0.0135 0.0035

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

rest rrai	nsmission				
Port	Time	Count	Measure		Predicted
943	11:41	1769	8.84	psi	1792
943	11:42	1429	7.14	psi	1449
943	11:43	1101	5.51	psi	1117
943	11:44	640	3.20	psi	652
943	11:45	236	1.18	psi	243
943	11:46	1115	5.57	psi	1117

Bad PT Problem:

Action Taken: Installed new PT. 40 feet length. RF OK. PT OK.

{Auto Entry: Calibrated sensor 943 by linear regression. Modified calibration data. New calibration [Slope(0.0115), Calibration Offset(0.0135), Std Error(0.0035), Calibration

Date(3/21/2013 11:45:11 AM)]}.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 950

Service Log

Site Name: Piney Ck @ Liverpool Date: 08-Mar-13 Time: 11:53
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location
TX J 15781 950
TB J 8374 950
BY R 0849 950

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0950-00E
Jumpers: 3,5 off

Eprom: R 1.8 3206 STD

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.2

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0849 13.08

Test Transmission Port Time Count Measure Predicted 950 12:15 1 0 12:16 950 2 0 953 12:04 1019 5.09 psi 1031 12:05 953 500 2.53 psi 517

Problem:

Action Taken: Installed TXR, TB, Battery, and dropped PT. Replaced desiccant in PT Box. RF OK. PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 950

Service Log

Site Name: Piney Ck @ Liverpool Date: 20-Aug-13 Time: 11:03
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

**Test Transmission**Port Time Count N

 Port
 Time
 Count
 Measure
 Predicted

 950
 11:11
 139
 0

 953
 11:08
 1385
 6.82 psi
 1378

 953
 11:09
 327
 1.53 psi
 317

Problem:

Action Taken: TB received two tips. TB clean and clear on arrival. TB OK Two point PT test passed. Current

Cal good. PT OK Site OK

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

950

Site ID:

Service Log

Site Name: Piney Ck @ Liverpool Date: 09-Oct-13 Time: 10:36

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0950-00E

Jumpers: 3,5 off

Eprom: R 1.8 3206 STD

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 953
 10:39
 363
 1.85 psi
 381

 953
 10:40
 873
 4.38 psi
 888

Problem:

Action Taken: PT tested within acceptable range. Removed TXR, Battery, TB, and desiccant for the season.

Pulled up PT.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 950

Service Log

Site Name: Piney Ck @ Liverpool Date: 27-Jun-13 Time: 12:39
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 953
 12:45
 985
 4.82 psi
 976

 953
 12:46
 439
 2.12 psi
 435

Problem:

Action Taken: RF OK, PT OK, TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Maple Grove ResDate:03-Jun-13Time:11:45Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1000

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed program for a 720 min report time.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

1000

Service Log

Site Name: Time: 10:01 **Maple Grove Res** Date: 17-May-13 Service Type: Installation Technician: NK/CY Status: OK

**Configuration Changes** 

Part # Location PT D 3445242 1000 BY R 1310 1000

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1310 12.91 Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed Campbell Sci AL200 TXR. Installed new Druck PT (10 psi, 160ft). Changed battery and

desiccant.

Re-mounted riser to concrete wall. RF good. Hearing data locally and transmitting to base.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1000

Service Log

Site Name: Maple Grove Res Date: 09-Jul-13 Time: 13:55
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Rain accumulation not coming in correctly

Action Taken: Changed radio on time from, when there is a message to every frame.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1000

Service Log

Site Name: Maple Grove Res Date: 03-Jan-13 Time: 10:42
Service Type: OneRain Service Ca Technician: PB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:

Tx Freq: Rx Freq: Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** PT drifting heavily, over-reporting.

Action Taken: Jumpered J3.

Site Notes:

Follow-Up: Replace PT at spring startup. Repair conduit run when replacing.

#### MAINTENANCE RECORD Site ID: URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

ONERAIN INCORPORATED

Service Log

Site Name: Maple Grove Res Date: 26-Sep-13 Time: 11:48
Service Type: OneRain Service Ca Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1320
 1000

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

1000

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1320 13.11

**Problem:** low battery

Action Taken: Replaced battery. Site OK

Site Notes: Follow-Up:

Test Transmission

Port Time Count Measure Predicted

Service Log
Site Name:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

ONERAIN INCORPORA

**Maple Grove Res** 

06-Nov-13 Time: 13:57

Site ID:

1000

Service Type: End of Season Technician: SB Status: OK

Date:

**Configuration Changes** 

 Part #
 Location

 TX C 1030
 1000

 BY R 1207
 1000

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1207 13.07

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: re-installed TXR after firmware upgrade. Replaced battery and desiccant. RF OK. PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Maple Grove Res Date: 04-Nov-13 Time: 12:06

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1000

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Updated OS on AL200. After new OS was uploaded, connection through devcfg is no longer

possible. Can not connect to AL200 to load cfg file. Will TXR back to shop and bench test there.

Site is down.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1000

Service Log

Site Name: Maple Grove Res Date: 20-Mar-13 Time: 12:17
Service Type: OneRain Service Ca Technician: SB/FL Status: PT Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

Battery Tests

SWR:

Battery #

V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

1000 12:19 64 0

**Problem:** New Conduit and PT

Action Taken: Riser falling off from wall. Need to move uplake. 150 PT should do it. 160 of we have.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Denver West Date: 06-Feb-13 Time: 13:12
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 18539
 1010

 TB J 8382
 1010

 BY R 1234
 1010

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1010

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1010-3-D

Jumpers: Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1234 12.84

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1010
 13:30
 1
 0

 1010
 13:30
 2
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1010

Service Log

Site Name:Denver WestDate:30-Jul-13Time:12:50Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1137
 1010

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:

Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1234 13.02

Test Transmission

Port	Time	Count	Measure	Predicted
1010	12:54	202		0
1010	12:55	203		0
1010	12:59	204		0

Problem:

Action Taken: TB slightly clogged with bees and other bugs stuck in funnel. TB received three tips. TB ok and

level. Changed out battery. Site OK Stand pipe has large dent in the side near door.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1010

Site ID:

Service Log

Site Name: Denver West Date: 04-Nov-13 Time: 10:58

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TXR out, TB out. Site down.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1020

Site ID:

Service Log

Site Name: Nolte Pond Date: 18-Mar-13 Time: 13:03
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
TX J 18538 1020
BY R 0611 1020

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1020-E00

Jumpers: c: JB6,1-2 JB3,5=Off

 Eprom:
 57EE R1.8

 Tx Freq:
 169.525

 Rx Freq:
 171.875

 Fwd Power:
 3.7

 Rev Power:
 0.1

 SWR:
 1.39

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0611 12.90

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1023
 13:14
 524
 2.24 psi
 532

 1023
 13:16
 1271
 5.46 psi
 1281

Problem:

Action Taken: Installed TXR and battery. Lowered PT for season. PT OK RF OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1020

Site ID:

Service Log

Site Name:Nolte PondDate:03-Jun-13Time:12:57Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1023
 12:58
 1265
 5.46 psi
 1282

 1023
 12:59
 410
 1.78 psi
 423

Problem:

Action Taken: PT tested within acceptable range. PT OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1020

Service Log

Site Name: Nolte Pond Date: 04-Nov-13 Time: 11:20

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1023 0.010 -0.0316 0.0803

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission						
Port	Time	Count	Measure		Predicted	
1023	11:34	1628	7.07	psi	1656	
1023	11:35	2047	9.37	psi	2191	
1023	11:36	1169	5.09	psi	1194	
1023	11:37	662	2.89	psi	683	
1023	11:39	30	0.17	psi	49	
1023	11:40	1134	4.94	psi	1159	
1023	11:41	1636	7.10	psi	1662	
1023	11:42	2047	9.10	psi	2129	
1023	11:43	709	3.10	psi	731	
1023	11:44	78	0.38	psi	96	
1023	11:45	635	2.78	psi	631	
1023	11:47	1879	8.14	psi	1843	
1030	10:35	418			0	
1030	10:35	419			0	

Problem:

Action Taken: Two point PT test failed. PT was re-calibrated. Upper end of new calibration isalomst 20 counts

away. Consider replacing PT. Also PT conduit near riser is broken. Stop bolt needs to be larger.

PT was sticking out of riser on bottom. TXR out, PT up. Site down.

{Auto Entry: Calibrated sensor 1023 by linear regression. Modified calibration data. New calibration [Slope(0.0102), Calibration Offset(-0.0316), Std Error(0.0803), Calibration

Date(11/4/2013 11:45:07 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1030

Service Log

Site Name: NREL/SERI Date: 12-Feb-13 Time: 11:23
Service Type: Start UP Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 19662
 1030

 TB J 13269
 1030

 BY R 1010
 1030

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1030-3-D

Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 1.0

 SWR:
 3

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1030
 11:34
 1
 0

 1030
 11:35
 2
 0

Problem:

Action Taken: Installed TXR, Battery, TB, and Desiccant. RF OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1030

Service Log

Site Name: NREL/SERI Date: 30-Jul-13 Time: 13:38
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1030
 13:39
 143
 0

 1030
 13:40
 144
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

1030

Service Log

Site Name: NREL/SERI Date: 04-Nov-13 Time: 10:33

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TXR out, TB out. End of season. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1040

Site ID:

Service Log

Site Name: Lena @ Hwy 6 Date: 18-Mar-13 Time: 13:36
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
TX J 4395 1040
BY R 0502 1040

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1040-3-0

Jumpers: C: JB6,1-2 L:JB9,10,1-2

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0502 12.90

Test Transmission						
Port	Time	Count	Measure	Predicted		
1040	13:54	1		0		
1040	13:54	2		0		
1040	14:04	3		0		
1043	13:57	504	2.35 psi	492		
1043	13:58	1068	5.01 psi	1055		

Problem:

Action Taken: Installed TXR, battery and TB. Lowered PT for season. PT OK TB OK RF OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Lena @ Hwy 6 Date: 26-Sep-13 Time: 11:26
Service Type: OneRain Service Ca Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1040

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 1040
 11:36
 453
 0

 1040
 11:36
 454
 0

 1043
 11:31
 1531
 7.27 psi
 1532

 1043
 11:32
 224
 1.08 psi
 222

**Problem:** PT not reporting.

Action Taken: PT diaphragm packed with dirt and mud, Cleaned PT. Two point PT test passed. PT OK TB

clean and clear. TB OK Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1040

Service Log

Site Name: Lena @ Hwy 6 Date: 15-Oct-13 Time: 11:37

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1043
 11:41
 476
 2.29 psi
 478

 1043
 11:42
 103
 0.51 psi
 103

Problem:

Action Taken: PT tested within acceptable range. Pulled up for winter. Removed txr, tb, battery, and desiccant.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1040

Site ID:

Service Log

Site Name: Lena @ Hwy 6 Date: 03-Jun-13 Time: 13:16
Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 1040 13:23 98 0 1040 13:23 99 0 1043 13:19 1236 5.88 psi 1238 13:20 299 1043 300 1.44 psi

Problem:

Action Taken: PT tested within acceptable range. PT OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1050

Site ID:

Service Log

Site Name:FairgroundsDate:30-Jul-13Time:12:41Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: tx j 18536

Jumpers:

Eprom:

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 1050 12:42 172 0 12:42 173 0 1050 1050 12:42 174 0

Problem:

Action Taken: TB clean and clear on arrival. TB received three tips. TB OK site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1050

Site ID: 1

Service Log

Site Name: Fairgrounds Date: 06-Feb-13 Time: 12:39
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 18536 1050
TB J 19496 1050
BY R 1026 1050

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: tx j 18536

Jumpers: Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1026 13.01

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Fairgrounds Date: 15-Oct-13 Time: 12:10

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1050

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: tx j 18536

Jumpers: Eprom:

Tx Freq: 169.525

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, Desiccant, and TB for winter.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1060

Service Log

Site Name:ApexDate:30-Jul-13Time:12:12Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB was clogged on arrival. TB cleaned. TB received three tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Apex Date: 12-Feb-13 Time: 11:57
Service Type: Start UP Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 18537
 1060

 TB J 19637
 1060

 BY R 1226
 1060

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1060

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1060-3-d

Jumpers: Eprom:

Ty Fuery

Tx Freq: 169.525

Rx Freq:

 Fwd Power:
 4.3

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1226 12.98

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1060
 12:13
 1
 0

 1060
 12:13
 2
 0

Problem:

Action Taken: Installed TXR, Battery, TB, and Desiccant. RF OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1060

Site ID:

Service Log

Site Name: Apex Date: 15-Oct-13 Time: 11:07

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 1060 11:10 484 0

1060 11:10 404 0 1060 11:10 485 0

Problem:

Action Taken: Removed TXR, TB, Battery, and Desiccant for the season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1100

Service Log

Site Name: L'ville Dwy "D" Date: 15-Mar-13 Time: 11:27
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 2806
 1100

 TB J 17973
 1100

 BY R 0501
 1100

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0501 12.90

Test Transmission Port Time Count Measure Predicted 1100 11:52 1 0 11:52 1100 2 0 1103 11:44 450 2.20 psi 448 11:45 1103 1036 5.08 psi 1031

Problem:

Action Taken: Installed TXR, battery, and TB. Lowered PT for season. PT tested OK RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1100

Service Log

Site Name: L'ville Dwy "D" Date: 30-Oct-13 Time: 14:28

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1103
 14:32
 1447
 7.05 psi
 1431

 1103
 14:33
 243
 1.22 psi
 251

Problem:

Action Taken: Two point PT test passed. Current cal good. TXR out, TB out. PT pulled up.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1100

Service Log

Site Name: L'ville Dwy "D" Date: 22-Jul-13 Time: 13:33
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission						
Port	Time	Count	Measure	Predicted		
1100	13:34	89		0		
1100	13:35	90		0		
1103	13:40	1485	7.32 psi	1485		
1103	13:41	315	1.56 psi	319		

Problem:

Action Taken: TB two tips. TB clean and clear. TB OK Two point PT test passed. PT OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1110

Service Log

Site Name: Gunbarrel Date: 17-Oct-13 Time: 9:34

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1110-0012-1112-11011

Jumpers: W4, W10

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.8

 Rev Power:
 0.1

 SWR:
 1.39

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1113
 9:54
 1419
 6.87 psi
 1418

 1113
 9:55
 246
 1.19 psi
 248

Problem:

Action Taken: Site take out. TXR and TB taken out. RF OK Adjusted zero on PT, span was fine. Two point PT

test passed. Current PT cal good. PT OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1110

Service Log

Site Name: Gunbarrel Date: 15-Mar-13 Time: 10:15
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25145
 1110

 TB H 0635
 1110

 BY R 1240
 1110

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1110-0012-1112-11011

Jumpers: W4, W10

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1240 12.90

Test Transmission						
Time	Count	Measure	Predicted			
10:41	2		0			
10:42	3		0			
10:42	4		0			
10:43	5		0			
10:44	6		0			
10:36	511	2.45 ps	si 509			
10:37	1050	5.07 ps	si 1047			
	Time 10:41 10:42 10:42 10:43 10:44 10:36	Time Count 10:41 2 10:42 3 10:42 4 10:43 5 10:44 6 10:36 511	Time Count Measure 10:41 2 10:42 3 10:42 4 10:43 5 10:44 6 10:36 511 2.45 ps			

Problem:

Action Taken: Installed TXR, battery and TB. Tested PT. PT OK TB OK Cleaned TB funnel.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1110

Service Log

Site Name: Gunbarrel Date: 26-Aug-13 Time: 10:17
Service Type: Service Call Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission						
Port	Time	Count	Meas	sure	Predicted	
1110	10:56	77			0	
1110	10:57	78			0	
1113	10:48	1915	9.27	psi	1913	
1113	10:48	1471	7.12	psi	1469	
1113	10:50	1051	5.08	psi	1049	
1113	10:51	635	3.06	psi	633	
1113	10:52	228	1.09	psi	228	

**Problem:** PT sensor not reporting on timed reports

Action Taken: PT zero was below the 0 point. Adjusted zero to be at positive 2 counts. 5 point test on PT

indicated current calibration was still valid. TB OK

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1110

Service Log

Site Name: Gunbarrel Date: 22-Jul-13 Time: 11:30
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1235
 1110

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1235 12.89

Test Transmission					
Port	Time	Count	Measure	Predicted	
1110	11:40	1		0	
1110	11:40	6		0	
1110	11:41	7		0	
1110	11:42	8		0	
1110	11:42	9		0	

Problem:

Action Taken: Replaced battery. TB clear and clean. TB leveled. TB six tips. Pt two point test passed. PT OK

Site ok

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1110

Service Log

Site Name:GunbarrelDate:16-Aug-13Time:13:08Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission						
Port	Time	Count	Measure	Predicted		
1110	13:09	72		0		
1110	13:09	73		0		
1113	13:15	1313	6.38 psi	1318		
1113	13:16	321	1.58 nsi	329		

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Two point PT test passed. Current PT

cal good. PT OK Site OK

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1200

Service Log

Site Name: Broomfield #3207 Date: 16-Jul-13 Time: 15:03
Service Type: Inspection Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 1200 15:09 108 0 15:10 109 0 1200 1203 15:08 942 5.12 psi 941 15:10 1203 391 2.14 psi 391

Problem:

Action Taken: PT tested within acceptable range. TB OK

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1200

Service Log

Site Name: Broomfield #3207 Date: 14-Mar-13 Time: 11:16
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 27311
 1200

 TB J 21358
 1200

 BY R 1130
 1200

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1200-3-0

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

Battery Tests

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 1200 11:43 1 0 11:45 0 1200 2 1200 11:45 0 3 1203 11:36 453 2.45 psi 450 1203 11:37 962 5.21 psi 959

Problem:

Action Taken: Installed TXR, battery and TB. Lowered PT for season. PT tested OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1200

Service Log

Site Name: Broomfield #3207 Date: 06-Nov-13 Time: 11:25

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1203
 11:39
 949
 5.14 psi
 945

 1203
 11:40
 387
 2.09 psi
 382

Problem:

Action Taken: Removed TXR, TB, Battery and desiccant. PT OK. Pulled up for winter.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1200

Site ID:

Service Log

Site Name: Broomfield #3207 Date: 14-Aug-13 Time: 14:38
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1021
 1200

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1130 13.13

rest rrai	nsmission			
Port	Time	Count	Measure	Predicted
1200	14:50	1		0
1200	14:51	2		0
1200	14:51	3		0

Problem:

Action Taken: Changed battery. TB dirty and clogged a little. TB cleaned. TB received three tips. TB OK Two

point PT test passed. PT OK current PT cal good. Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

1300

Service Log

Site Name: Hidden Lake Date: 26-Sep-13 Time: 12:33
Service Type: Service Call Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted 1300 12:42 170 0 12:42 171 1300 0 1303 12:41 1828 7.14 psi 1839 12:42 1303 306 1.21 psi 304

**Problem:** Questionable PT calibration

Action Taken: Two point PT test passed. PT OK PT riser flushed. TB clean and clear on arrival. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1300

Service Log

Site Name: Hidden Lake Date: 14-Mar-13 Time: 10:06
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
TX J 11923 1300
TB J 18572 1300
BY R 1140 1300

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1300-00E
Jumpers: none
Eprom: 5.0S
Tx Freq: 169.500
Rx Freq:
Ewd Power: 4.0

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1140 12.90

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
1300	10:29	1		0
1300	10:29	2		0
1303	10:21	1312	5.07 psi	1304
1303	10:22	588	2.27 psi	579
1310	9:54	1		0
1310	9:55	2		0
1310	9:56	3		0

Problem:

Action Taken: Installed TXR, battery and TB. RF OK Lowered PT for season. PT tested OK. TB OK Replaced

TB screen that was missing.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Hidden LakeDate:14-Aug-13Time:12:33Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 0415
 1300

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1300

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1140 13.02

Test Transmission

Port Time Count Measure Predicted 1300 12:44 1 0 1300 12:44 2 0 1300 12:46 3 0

Problem:

Action Taken: changed battery. TB clogged on arrival. TB cleaned. TB recievedthree tips. TB OK Two point PT

test passed. PT OK Site OK

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1300

Service Log

Site Name:Hidden LakeDate:13-Jun-13Time:13:33Service Type:InspectionTechnician:MZStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1303
 13:37
 1161
 4.54
 psi
 1166

 1303
 13:38
 734
 2.88
 psi
 736

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1300

Service Log

Site Name: Hidden Lake Date: 04-Nov-13 Time: 14:20

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1303
 14:28
 409
 1.58 psi
 399

 1303
 14:29
 1830
 7.09 psi
 1826

Problem:

Action Taken: Two point PT test passed. Current PT cal good. PT OK. TXR out, TB out. PT up. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1310

Service Log

Site Name: Little Dry Creek @ 64t Date: 14-Aug-13 Time: 13:08
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1310
 13:15
 179
 0

 1310
 13:16
 180
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Two point PT test passed. Current PT

cal good. PT OK Site OK

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1310

Service Log

Site Name: Little Dry Creek @ 64t Date: 26-Jun-13 Time: 10:11
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
1310 10:19 80 0

1310 10:19 81 0 1313 10:16 1057 5.15 psi 1048 1313 10:17 432 2.09 psi 423

Problem:

Action Taken: PT tested within acceptable range. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1310

Site ID:

Service Log

Site Name: Little Dry Creek @ 64t Date: 06-Nov-13 Time: 13:22

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1313
 13:26
 1293
 6.29 psi
 1280

 1313
 13:27
 711
 3.45 psi
 701

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant. PT tested. Pulled up.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Little Dry Creek @ 64t Date: 14-Mar-13 Time: 9:33
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 11922
 1310

 TB J 19629
 1310

 BY R 1120
 1310

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1310

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1310-00E

Jumpers:

Eprom:

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1120 13.10

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1313
 9:50
 453
 2.17 psi
 440

 1313
 9:51
 1069
 5.17 psi
 1051

Problem:

Action Taken: Installed TXR, battery and TB. RF OK PT lowered for season. PT tested OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1320

Site ID:

Service Log

Site Name: SPR @Mausoleum Date: 11-Nov-13 Time: 12:10

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1323
 12:13
 962
 4.72 psi
 957

 1323
 12:14
 734
 3.59 psi
 729

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for season. PT tested within acceptable range.

Site Notes: BOCO Key

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1320

Service Log

Site Name: SPR @Mausoleum Date: 11-Jul-13 Time: 13:57
Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1206
 1320

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 1320 14:06 2 0 1320 14:07 3 0 1323 14:04 1141 5.66 psi 1146 14:05 288 1323 286 1.42 psi

**Problem:** Low voltage

Action Taken: replaced battery. PT tested within acceptable range. PT OK. TB OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1320

Service Log

Site Name: SPR @Mausoleum Date: 14-Mar-13 Time: 13:53
Service Type: Start Up Technician: SB/GH Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 28973
 1320

 TB S 0206
 1320

 BY R 1031
 1320

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

 Fwd Power:
 4.1

 Rev Power:
 0.1

 SWR:
 1.37

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1031 13.12

Test Transmission Port Time Count Measure Predicted 1320 14:06 1 0 14:06 1320 2 0 1323 14:00 1064 5.24 psi 1062 14:01 1323 359 1.76 psi 357

Problem:

Action Taken: Installed TXR, Battery, TB, and Desiccant. Lowered PT. PT OK. RF OK. TB OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1340

Site ID:

Service Log

Site Name:Sanderson GulchDate:18-Sep-13Time:12:02Service Type:OneRain Service CaTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1343
 12:05
 448
 4.95 psi
 449

 1343
 12:06
 135
 1.67 psi
 132

**Problem:** Didn't show rise in water during flood event.

Action Taken: PT is good. Intake is clear. Stream channel does not show much of a stage change. Maybe 6 to

12 inches.

Site Notes:

Follow-Up: In spring look into replacing hydro tx with HS tx with count of 2047 count.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1340

Site ID:

Service Log

Site Name: Sanderson Gulch Date: 06-Nov-13 Time: 13:38

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1343
 13:42
 664
 7.16 psi
 662

 1343
 13:43
 166
 1.96 psi
 160

Problem:

Action Taken: Two point PT test passed. Current PT calibration OK. PT pulled up. TXR out, TB out. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1340

Service Log

Site Name: Sanderson Gulch Date: 02-Jul-13 Time: 13:27
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 1340
 13:36
 1406
 0

 1340
 13:37
 1407
 0

1343 13:30 571 6.19 psi 569 1343 13:31 28 0.51 psi 20

Problem:

Action Taken: two point PT test passed. Span might need to be adjusted. PT calibration OK TB clean. TB two

tips. TB OK

Site Notes:

Follow-Up:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1340

Service Log

Site Name: Sanderson Gulch Date: 14-Mar-13 Time: 12:18
Service Type: Start Up Technician: SB/GH Status: OK

**Configuration Changes** 

Part # Location
TX N 3105 1340
TB S 0203 1340
BY R 1209 1340

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1343 0.024 0.6957 0.166

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 1340

Jumpers:

Eprom: 9601-01-90 ver 3.9M

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.1

 Rev Power:
 0.0

 SWR:
 1

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1209 13.18

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
1340	12:53	1274			0
1340	12:54	1275			0
1343	12:27	815	8.77	psi	839
1343	12:28	633	6.85	psi	656
1343	12:29	437	4.84	psi	463
1343	12:30	260	3.00	psi	287
1343	12:31	78	1.11	psi	107
1343	12:33	541	5.93	psi	543
1343	12:34	190	2.21	psi	184

Problem:

Action Taken: Installed TXR, Battery, TB, and Desiccant. Re-calibrated PT. Lowered Unit. Replaced top

screen. Tightened screws on TB level. RF OK. TB OK. PT OK.

{Auto Entry: Calibrated sensor 1343 by linear regression. Modified calibration data. New calibration [Slope(0.0239), Calibration Offset(0.6957), Std Error(0.1660), Calibration

Date(3/14/2013 12:31:36 PM)]}.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1350

Service Log

Site Name: Chatfield Dam Date: 30-Jul-13 Time: 10:29
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1350
 10:30
 953
 0

 1350
 10:31
 954
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Chatfield Dam Date: 06-Feb-13 Time: 11:29
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX N 3108 1350
TB S 9803 1350
BY R 0828 1350

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1350

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1350

Jumpers:

Eprom: 9601-01-90 Ver. 3.9M

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0828 12.92

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1350
 11:41
 816
 0

 1350
 11:41
 817
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1350

Service Log

Site Name: Chatfield Dam Date: 06-Nov-13 Time: 12:00

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TXR out, TB out. Site down, end of season

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1360

Site ID:

Service Log

Site Name: Denver ZOO Date: 11-Nov-13 Time: 14:23

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1360

Jumpers:

Eprom: 9601-01-90 Ver. 3.9M

*Tx Freq:* **169.525** 

Rx Freq:
Fwd Power:
Rev Power:
SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for season.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1360

Site ID:

Service Log

Site Name: Denver ZOO Date: 05-Feb-13 Time: 14:13
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX N 3104
 1360

 TB S 7799
 1360

 BY R 1136
 1360

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1360

Jumpers:

Eprom: 9601-01-90 Ver. 3.9M

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1136 12.67

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1360
 14:22
 1197
 0

 1360
 14:23
 1198
 0

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Fire Station 13 Date: 06-Feb-13 Time: 11:53
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 18530
 1370

 TB S 0401
 1370

 BY R 0510
 1370

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1370

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1370

Jumpers:

*Eprom:* **9601-01-90 v. 3.9M** 

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0510 13.20

Test Transmission					
Port	Time	Count	Measure	Predicted	
1370	12:06	1		0	
1370	12:06	3		0	
1370	12:08	4		0	
1370	12:08	5		0	

Problem:

Action Taken: Installed txr, battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1370

Service Log

Site Name: Fire Station 13 Date: 06-Nov-13 Time: 11:40

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TXR out, TB out, Site down, end of season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1370

Site ID:

Service Log

Site Name: Fire Station 13 Date: 30-Jul-13 Time: 10:43
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 1370 10:44 139 0

1370 10:44 140 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1380

Site ID:

Service Log

Site Name:Ferril LakeDate:11-Nov-13Time:14:05Service Type:End of SeasonTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:

Fwd Power: 4.3
Rev Power: 0.1
SWR: 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1232 12.98

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery and desiccant, Tested TXR with watt meter. TXR OK. Purged bubbler. Bubbler

OK. Solar OK. Site OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Ferril Lake Date: 17-Sep-13 Time: 14:15
Service Type: OneRain Service Ca Technician: GH Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1380

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Locked up bubbler.

Action Taken: Power cycled bubbler. Verified readings updated. Note LB at base for bubbler line conduit broken

(apparent vandalism; lock tab on box had been bent also). LB needs repair.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Ferril Lake Date: 09-Jul-13 Time: 12:23
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1380

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Solar OK. RF OK Purged bubbler. Bubbler OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Ferril Lake Date: 22-Feb-13 Time: 11:27
Service Type: OneRain Service Ca Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1380

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Site stopped reporting on 2/12/2013

Action Taken: Radio determined to be bad. Replaced battery. Solar OK. RF OK Replaced desiccant. Purged

bubbler. Bubbler OK.

Site Notes:

Follow-Up: Install new test button for data logger.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1380

Service Log

Site Name: Ferril Lake Date: 30-Jan-13 Time: 13:46
Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed frequency to 169.500

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Upper Sloan Date: 04-Nov-13 Time: 13:06

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1400

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1403
 13:11
 1558
 7.10 psi
 1561

 1403
 13:12
 430
 1.94 psi
 427

Problem:

Action Taken: Two point PT test passed. PT OK. TXR out. TB out. PT up. Site down.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1400

Site ID:

Service Log

Site Name: Upper Sloan Date: 26-Jun-13 Time: 10:43
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error 1403 0.011 -0.0001 0.0017

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
1400	10:59	88			0
1400	11:00	89			0
1403	10:48	1181	5.38	psi	1193
1403	10:49	490	2.23	psi	494
1403	10:50	1597	7.27	psi	1611
1403	10:51	1998	9.09	psi	2015
1403	10:52	1573	7.15	psi	1587
1403	10:53	1123	5.11	psi	1133
1403	10:54	688	3.13	psi	694
1403	10:55	257	1.17	psi	259
1403	10:56	1142	5.20	psi	1141
1403	10:57	466	2.12	psi	465

**Problem:** PT appears to be over reporting

Action Taken: TB OK. PT tested outside of calibration range. PT calibrated.

PT monitored while onsite.

PT appears to be OK Over reporting appears to be caused by wave action at sensor location. Changed event reporting from a change of .25% to 1%. Continue to monitor.

{Auto Entry: Calibrated sensor 1403 by linear regression. Modified calibration data. New calibration [Slope(0.0105), Calibration Offset(-0.0001), Std Error(0.0017), Calibration Date(6/26/2013 10:55:18 AM)]}.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1400

Service Log

Site Name: Upper Sloan Date: 18-Mar-13 Time: 11:45
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
TX J 15782 1400
TB J 21344 1400
BY R 0405 1400

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1400-3-0

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.5

 Rev Power:
 0.1

 SWR:
 1.41

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0405 13.10

Test Transmission Port Time Count Measure Predicted 1400 12:08 1 0 1400 12:08 2 0 1403 12:02 1203 5.33 psi 1181 12:03 1403 475 2.10 psi 467

Problem:

Action Taken: Installed TXR, battery and TB. Lowered PT for season. PT OK RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1400

Site ID:

Service Log

Site Name: Upper Sloan Date: 14-Aug-13 Time: 11:42
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1040
 1400

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq: Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0405 13.22

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1400
 11:54
 1
 0

 1400
 11:54
 2
 0

Problem:

Action Taken: changed battery. TB clogged. TB cleaned. TB received three tips. TB OK Two point PT test

passed. Current cal good. PT OK Site OK

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID: 1420

Service Log

Site Name: Date: Time: 14:01 **Diamond Hill** 16-Jul-13 Service Type: Inspection Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

14:12

1420

Port Time Count Measure Predicted 1420 14:12 2012 0

2013

Problem:

Action Taken: @ 14:00 ID 1421 raw = 27 => 27% RH, ID 1422 raw = 122 => 82 deg.F, psychrometer readings

Td = 86 deg.F, Tw = 65 deg.F implying RH = 34% and dp = 54 deg.F. TB OK

Site Notes:

Follow-Up:

0

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Diamond Hill Date: 28-Aug-13 Time: 14:19
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1420

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Wind not working

Action Taken: Wind sensor has freedom of movement. Not bearings as suspected. Need to follow up with

larger ladder and proper tools. Spare 5386

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Diamond Hill Date: 04-Feb-13 Time: 14:43

Service Type: Start Up Technician: SB Status:

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1420

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1420

Jumpers:

Eprom: 9601-01-81 Ver 3.5

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed radio to freq 169.500

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1420

Site ID:

Service Log

Site Name:Diamond HillDate:11-Nov-13Time:9:35Service Type:End of SeasonTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location
TX N 4011 1420
BY R 1130 1420

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1420

Jumpers:

Eprom: 9601-01-81 Ver 3.5

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.2

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1130 13.32

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced TXR. Suspect bad TXR, wind run was not working properly. Replaced battery and

desiccant. Station readings @ 10:39 AT = 65F raw = 105. RH = 16% raw = 16. Anemometer free of movement. TB clean and clear on arrival. TB OK. Digital Psycrometer readings @ 10:54 AT =

64.9 RH = 17.2%. Station readings all seem good. Station OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1420

Service Log

Site Name: Diamond Hill Date: 20-Nov-13 Time: 13:47

Service Type: OneRain Service Ca Technician: NK/SB Status: Wind down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted 1420 14:18 1 0

1420 14:20 2 0 1420 14:20 3 0

**Problem:** WS not working

Action Taken: Reloaded program. Still no wind speed. Copied TXR outputs on terminal window. Will diagnose

outputs at shop. WS down.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1440

Site ID:

Service Log

Site Name: Elbert Wx Date: 25-Nov-13 Time: 10:37
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: W4, W10 2-3 Eprom: 555 4.01

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 4.2

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1440
 10:47
 865
 0

 1440
 10:48
 866
 0

Problem:

Action Taken: Changed battery and replaced desiccant. Tested TXR with Watt meter. TXR OK.

Station readings @ 10:44 AT = 26F. RH = 84%, WS = 7.67 mph, WD = 59.27 deg. TB OK.

Readings and sensors good.

Digital Psycrometer @ 10:47 AT = 32.7F, RH = 70.2%.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1460

Service Log

Site Name: Urban Farm Date: 05-Sep-13 Time: 12:39
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

. Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB OK. Wind OK. @ 12:37 ID 1461 raw = 238 => 23.8% RH, ID 1462 raw = 12274 => 87.4

deg.F. Digital Phsycrometer reads 91 deg and 25.9% RH. Battery at 13.7V, solar OK.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1460

Service Log

Site Name: Urban Farm Date: 28-Mar-13 Time: 10:18
Service Type: Start Up Technician: MZ/BL Status: OK

**Configuration Changes** 

Part # Location BY R 1004 1460 Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1004 12.94

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1460
 10:32
 980
 0

 1460
 10:33
 981
 0

Problem:

Action Taken: TB OK. Wind OK. @ 10:26 ID 1461 raw = 62 => 60.2% RH, ID 1462 raw = 852 => 72.9 deg.F,

psychrometer readings Td = 49 deg.F, Tw = 43 deg.F implying RH = 64% and dp = 37 deg.F.

Solar OK. RF OK SWR = 1.04. Replaced battery and desiccant.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Urban Farm Date: 20-Nov-13 Time: 13:07
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1032
 1460

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1460

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1032 13.31

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1460
 13:14
 1562
 0

 1460
 13:15
 1563
 0

Problem:

Action Taken: Replaced desiccant and battery. Tested TXR. TXR on edge of needing replacement. Power fwd

= 3 watts. Pretty low. TB clean and clear on arrival. TB OK. Station readings seem reasonable. AT = 57F = raw = 970. RH = 22.10 = raw = 219. Anemometer free of movement. Tested solar.

Solar OK. Site and sensors OK.

Digital Psycrometer @ 13:18 AT = 59.7. RH = 16.4%

Site Notes: Use 1460 Key

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1460

Site ID:

Service Log

Site Name:Urban FarmDate:20-Jun-13Time:11:26Service Type:InspectionTechnician:Status:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB OK. Wind OK. @ 11:15 ID 1461 raw = 110 => 11% RH, ID 1462 raw = 1203 => 80 deg.F.

Solar OK. RF OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1480

Service Log

Site Name: DIA @ Third Creek Date: 24-Sep-13 Time: 13:24
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1484 0.012 -0.4414 0.1094

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Meas	sure	Predicted
1480	14:01	291			0
1480	14:01	293			0
1483	13:54	1594	7.80	psi	1594
1483	13:55	252	1.23	psi	251
1484	13:27	1753	8.21	psi	1641
1484	13:28	1505	6.97	psi	1393
1484	13:29	1060	4.74	psi	952
1484	13:30	670	2.80	psi	564
1484	13:31	111	0.00	psi	8
1484	13:32	1511	6.98	psi	1397
1484	13:33	1943	9.13	psi	1824
1484	13:34	1143	5.13	psi	1028
1484	13:35	710	2.96	psi	597
1484	13:36	310	0.96	psi	199

**Problem:** Stream PT dropping and rising by a significant amount

Action Taken: Stream PT failed two point test. Re-cal stream PT. Stream PT has drifted significantly. However

was able to re-calibrate drift out of PT. Stream PT will need replacement.

Well PT OK Two point test passed.

TB clean and clear on arrival. TB OK

{Auto Entry: Calibrated sensor 1484 by linear regression. Modified calibration data. New calibration [Slope(0.0115), Calibration Offset(-0.4414), Std Error(0.1094), Calibration

Date(9/24/2013 1:47:54 PM)]}.

**Site Notes:** Craig Shlinger is contact for gate operation.

Follow-Up: Replace stream PT.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1480

Service Log

Site Name: DIA @ Third Creek Date: 20-Nov-13 Time: 12:22

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

. ....

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

PortTimeCountMeasurePredicted148312:337173.50 psi715

 1483
 12:34
 273
 1.32 psi
 270

 1484
 12:27
 754
 4.02 psi
 844

 1484
 12:28
 415
 2.33 psi
 506

Problem:

Action Taken: Well PT passed two point Test. Stream PT needs re-calibration in spring. TXR out. TB still at

site. Site down. PT's pulled up.

Site Notes:

Follow-Up: Re-calibrate stream PT in Spring. Might need replaced. TB still in.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1480

Service Log

Site Name: DIA @ Third Creek Date: 08-Aug-13 Time: 13:04 Technician: NK/SB Service Type: Repair Status: OK

**Configuration Changes** 

Part # Location TX J 2183 1480 PT D 3892266 1480 BY R 1312 1480

Transducer Calibration

Sensor ID Calib Offset Slope Std Error 1483 -0.0131 0.0063 0.011 1484 0.012 -0.0949 0.0232

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load BY R 1312

12.80

Test Transmission						
Port	Time	Count	Meas	sure	Predicted	
1480	13:50	1			0	
1480	13:50	2			0	
1483	13:23	1897	9.26	psi	1827	
1483	13:24	1455	7.11	psi	1403	
1483	13:25	1014	4.94	psi	976	
1483	13:26	401	1.95	psi	386	
1483	13:27	24	0.12	psi	24	
1484	13:31	1866	9.25	psi	1905	
1484	13:32	1484	7.09	psi	1463	
1484	13:33	1120	5.16	psi	1069	
1484	13:34	710	2.99	psi	626	
1484	13:36	21	0.00	psi	17	
1484	13:38	1824	9.13	psi	1879	
1484	13:39	1420	7.03	psi	1451	

Problem: Site destroyed by vandals

Action Taken: Installed new TX, new solar, replaced battery, and desiccant. TB tested and leveled. TB OK

Found stream PT to be bad. Replaced stream PT. Calibrated both PT's. Site is fully operational.

{Auto Entry: Calibrated sensor 1483 by linear regression. Modified calibration data. New calibration [Slope(0.0113), Calibration Offset(-0.0131), Std Error(0.0063), Calibration Date(8/8/2013 1:28:03 PM)]}.

{Auto Entry: Calibrated sensor 1484 by linear regression. Modified calibration data. New calibration [Slope(0.0120), Calibration Offset(-0.8820), Std Error(0.2048), Calibration Date(8/8/2013 1:44:33 PM)]}.

Auto Entry: Calibrated sensor 1484 by linear regression. Modified calibration data. New calibration [Slope(0.0116), Calibration Offset(-0.0949), Std Error(0.0232), Calibration

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1480

Date(8/8/2013 2:24:02 PM)]}.

Site Notes: +3 is stilling well stage, +4 is stream stage.

Follow-Up:

Service Log

Site Name: DIA @ Third Creek Date: 09-Jul-13 Time: 14:37

Service Type: Inspection Technician: MZ Status: Site Down

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

\_\_\_\_\_\_

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Vandalism. Solar needs replaced. PT wiring disconnected, needs tested, possible replaced.

TXR board disconnected, needs tested.

Site Notes: Total rehab required. Someone broke into the building.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1480

Service Log

Site Name: DIA @ Third Creek Date: 29-Mar-13 Time: 14:40
Service Type: Installation Technician: SB/FL Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 23967
 1480

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

Battery Tests

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 1483
 14:43
 1252
 6.25 psi
 1234

 1483
 14:44
 410
 2.05 psi
 406

 1484
 14:51
 1332
 6.41 psi
 1324

 1484
 14:52
 462
 2.19 psi
 463

Problem:

Action Taken: Installed TXR, Battery, Desiccant and Lowered PTs. RF OK. PT OK. TB OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

1500

Service Log

Site Name: Powers Park Date: 07-Mar-13 Time: 12:12
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 28971
 1500

 TB J 8366
 1500

 BY R 0502
 1500

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1500-00E

Jumpers: C:J6,1-2,J3,5off;L:J8,9,1-2

Eprom: R1.8 57FE Tx Freq: 169.525

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0502 13.20

Test Transmission							
Port	Time	Count	Measure	Predicted			
1500	12:34	1		0			
1500	12:34	4		0			
1500	12:35	5		0			
1500	12:35	7		0			
1503	12:25	1191	6.23 psi	1194			
1503	12:26	424	2.24 psi	433			

Problem:

Action Taken: Installed TXR, Battery, TB, and desiccant. TB OK. RF OK. PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

1500

Service Log

Site Name:Powers ParkDate:09-Sep-13Time:13:31Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 0634
 1500

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0634 13.12

lest transmission					
Port	Time	Count	Measure	Predicted	
1500	13:38	1		0	
1500	13:38	2		0	
1500	13:41	3		0	
1500	13:41	4		0	
1503	13:49	1087	5.61 psi	1076	
1503	13:50	230	1.23 psi	239	

**Problem:** low battery

Action Taken: changed out battery. TB clean and clear. TB OK Two point PT test passed. Current PT cal good.

Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1500

Site ID:

Service Log

Site Name: Powers Park Date: 04-Nov-13 Time: 13:07

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, and desiccant for winter.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1500

Service Log

Site Name:Powers ParkDate:02-Jul-13Time:14:39Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Measur	e	Predicted		
1500	14:50	186			0		
1500	14:51	187			0		
1500	14:51	188			0		
1503	14:43	1171	6.12 p	si	1173		
1503	14:44	147	g 08.0	si	159		

Problem:

Action Taken: Two point PT test passed. PT OK TB clogged. TB now clean. TB three tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1520

Service Log

Site Name: Marston Lake Date: 02-Jul-13 Time: 13:02
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission						
	Port	Time	Count	Measure	Predicted	
	1520	13:11	313		0	
	1520	13:12	315		0	
	1520	13:12	316		0	
	1520	13:13	317		0	
	1520	13:14	318		0	
	1523	13:06	1582	6.84 psi	1562	
	1523	13:07	340	1.58 psi	349	

Problem:

Action Taken: Two point PT test passed. PT OK TB dirty and clogged. TB cleaned and tipped 5 times. TB OK

Site OK

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1520

Service Log

Site Name: **Marston Lake** Date: 06-Nov-13 Time: 12:25 Technician: NK Service Type: End of Season Status: OK

**Configuration Changes** 

Part # Location BY R 1116 1520

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt **SW C354** 120 2 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

**BY R 1116** 13.20 Test Transmission Time Measure Predicted Port Count 1520 12:55 494 0 1520 12:56 495 0 1520 12:56 496 0 1523 12:42 1609 6.95 psi 1589 1523 12:46 1265 1263 5.54 psi 1523 12:47 494 2.23 psi 500 1523 12:47 1801 1790 7.82 psi

Problem:

Action Taken: TXR tested with IFR, TXR is within specs. TXR OK. snwr = 1.31. RF OK. Two point PT test passed. Current PT cal good. PT OK. Pt is pulled up for winter

Station readings at 12:47 AT = 55.2 F raw = 952. RH = 11.9% raw = 238. WS = 8mph. WD = 307. Digital Psycrometer readings @ 12:53 AT= 58.8 F RH = 18.6%. All readings seem

reasonable and within spec.

TB clean and clear on arrival. TB OK. Site is OK.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1520

Service Log

Site Name: Marston Lake Date: 27-Mar-13 Time: 13:34
Service Type: Start Up Technician: GH Status: OK

**Configuration Changes** 

Part # Location
BY R 1210 1520
BY R 1124 1520

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 1520-0012-1112-11011

 Jumpers:
 J4 J10

 Eprom:
 AB-SP09

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1124 13.35 BY R 1020 13.10 Test Transmission

Port Time Count Measure Predicted

1520 14:05 222 0

1520 14:05 222 0 14:09 223 1520 0 14:27 1124 4.96 psi 1128 1523 181 1523 14:29 0.92 psi 197

Problem:

Action Taken: Checked cal then dropped PT. Cleaned and leveled TB, no large screen. Replaced Bats and

desiccant. Tested transmissions.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1520

Site ID:

Service Log

Site Name: Marston Lake Date: 09-Sep-13 Time: 14:21
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 1520
 14:26
 376
 0

 1520
 14:26
 377
 0

1523 14:31 1640 7.21 psi 1649 1523 14:32 238 1.19 psi 259

Problem:

**Action Taken:** sensor values from station @ 14:21 AT raw = 1264 = 86.4 F... RH raw = 356 = 17.8%.... WS =

5 mph... WD = 111 deg. Digital Psychrometer values @ 14:24.... AT = 89.0....RH = 27.9%. Solar panel clean. TB clean and clear on arrival. Two point PT test passed. Current PT cal good. PT

OK Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Bear Creek @ Lowell Date: 13-Aug-13 Time: 12:54
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1227
 1530

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1530

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 0948 13.04

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed battery. TB clean and clear on arrival. TB received two tips. TB OK Two point PT test

passed. PT OK Site OK

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1530

Service Log

Site Name: Bear Creek @ Lowell Date: 14-Mar-13 Time: 11:28
Service Type: Start Up Technician: SB/GH Status: OK

**Configuration Changes** 

Part # Location
TX J 147 1530
TB S 0205 1530
BY R 0948 1530

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 1530

Jumpers:

Eprom: 9601-01-N Ver 3.9M

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0948 12.85

Test Transmission Port Time Count Measure Predicted 1530 11:55 1 0 1530 11:55 2 0 11:41 1090 4.72 psi 1106 1533 458 1533 11:43 448 1.94 psi

Problem:

Action Taken: Installed TXR, TB, BAT, desiccant. Lowered PT, calibrated within range. TB springs missing,

replaced. RF ok, TB OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1530

Service Log

Site Name: Bear Creek @ Lowell Date: 06-Nov-13 Time: 13:08

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1533
 13:13
 1691
 7.29 psi
 1682

 1533
 13:14
 391
 1.67 psi
 386

Problem:

Action Taken: Two point PT test passed. Current PT cal good. PT pulled up. TXR taken out. TB is still at site.

Can't set ladder up. Might consider re-locating TB to a more accessible location. Site down

Site Notes:

Follow-Up: TB is still installed at site.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 1530

Service Log

Site Name: Time: 13:51 Bear Creek @ Lowell Date: 02-Jul-13 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1533 0.01 0.0039 0.0089

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
1533	13:55	1409	6.12	psi	1431
1533	13:56	2047	9.22	psi	2153
1533	13:57	1563	6.78	psi	1584
1533	13:58	875	3.81	psi	892
1533	13:59	297	1.28	psi	305
1533	14:01	1973	8.56	psi	2000
1533	14:02	1481	6.41	psi	1500
1533	14:03	943	4.10	psi	961
1533	14:04	510	2.21	psi	521
1533	14:05	169	0.73	psi	176

Problem:

Action Taken: Two point PT test failed. New PT calibration. PT OK

{Auto Entry: Calibrated sensor 1533 by linear regression. Modified calibration data. New calibration [Slope(0.0100), Calibration Offset(0.0039), Std Error(0.0089), Calibration Date(7/2/2013 2:05:27 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1550

Site ID:

Service Log

Site Name: Lakewood CC Date: 29-Jul-13 Time: 15:27
Service Type: Inspection Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1550
 15:30
 229
 0

 1550
 15:30
 230
 0

Problem:

Action Taken: TB OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1550

Site ID:

Service Log

Site Name: Lakewood CC Date: 12-Feb-13 Time: 10:23
Service Type: Start UP Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 18535
 1550

 TB J 11492
 1550

 BY R 1002
 1550

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.3

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1002 13.02

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1550
 10:37
 1
 0

 1550
 10:37
 2
 0

Problem:

Action Taken: Installed TXR, TB, Battery, and Desiccant. RF OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1550

Site ID:

Service Log

Site Name: Lakewood CC Date: 04-Nov-13 Time: 13:47

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TXR out, TB out. Site down.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1560

Service Log

Site Name: Lakewood Gulch Date: 18-Mar-13 Time: 11:14
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1560-00E

Jumpers: C:J6,1-2,J3+5off

Eprom:

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1563
 11:22
 1031
 5.13 psi
 1030

 1563
 11:23
 428
 2.13 psi
 429

Problem:

Action Taken: Installed Battery. PT lowered for start of season. PT OK Changed radio frequency to 169.500.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1560

Site ID:

Service Log

Site Name: Lakewood Gulch Date: 11-Nov-13 Time: 11:49

Service Type: End of Season Technician: NK/SB Status: Site Down

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1563 0.012 0.0438 0.0219

Tx Maintenance

Test Transmission

11:56

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 1560-00E

Jumpers: C:J6,1-2,J3+5off

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

Time Count Port Measure Predicted 1563 11:52 1382 6.99 psi 1403 1563 11:53 1806 1830 9.12 psi 11:54 1005 1022 1563 5.09 psi 593 610 1563 11:54 3.03 psi 1563 11:55 0 0.00 psi 1

1329

6.72 psi

1333

Problem:

Action Taken: Two point PT test failed. Re-calibrated PT. PT OK.PT pulled up for winter. Tested TXR with watt

meter. TXR OK. Site down for winter.

{Auto Entry: Calibrated sensor 1563 by linear regression. Modified calibration data. New calibration [Slope(0.0116), Calibration Offset(0.0438), Std Error(0.0219), Calibration

1563

Date(11/11/2013 11:55:32 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1560

Service Log

Site Name: Lakewood Gulch Date: 16-Jul-13 Time: 12:34
Service Type: OneRain Service Ca Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
1563	13:01	1459	7.32	psi	1468
1563	13:02	1007	5.10	psi	1025
1563	13:03	619	3.18	psi	638
1563	13:04	244	1.28	psi	257
1563	13:05	0	0.00	psi	1

**Problem:** Intermittent data coming through on contrail.

Action Taken: SNR good 1.2. Original radio dead, no readings on WATT meter. Replaced radio. 5 point PT test

for troubling shooting comm issues. PT OK Site OK Data getting to contrail.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

1560

Service Log

**Lakewood Gulch** Site Name: Date: 11-Jul-13 Time: 14:23 Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem: Not reporting

Action Taken: Suspect bad CE. DO not have one in the truck.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1600

Service Log

Site Name: Englewood Dam Date: 21-Mar-13 Time: 10:05
Service Type: OneRain Service Ca Technician: SB/FL Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1600
 10:36
 8
 0

 1600
 10:36
 9
 0

**Problem:** PT Over reporting

Action Taken: Changed cable from desiccant box to to TXR. Changed delta transmit to 20 counts. PT tested

OK

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1600

Service Log

Site Name: Englewood Dam Date: 07-Mar-13 Time: 10:10
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1603 0.014 -0.4485 0.0998

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 1610-3-0 00E

Jumpers: JB 3-5 off Eprom: R 1.8 9CA1

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 3.9

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0913 12.94

Test Transmission					
Port	Time	Count	Meas	sure	Predicted
1613	10:30	1581	9.14	psi	1889
1613	10:31	1224	7.04	psi	1462
1613	10:32	902	5.13	psi	1070
1613	10:33	562	3.12	psi	661
1613	10:34	221	1.11	psi	251
1613	10:35	788	4.45	psi	788
1613	10:36	392	2.13	psi	394

Problem:

Action Taken: Installed TXR, TB, and lowered PT. Calibrated PT. PT OK. RF OK. TB OK. Replaced TB

Screen. Replaced desiccant in PT box.

{Auto Entry: Calibrated sensor 1603 by linear regression. Modified calibration data. New calibration [Slope(0.0136), Calibration Offset(-0.4485), Std Error(0.0998), Calibration

Date(3/7/2013 10:34:55 AM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Service Log

Site Name: Date: Time: 11:07 **Englewood Dam** 04-Nov-13

Status: Site Down Service Type: End of Season Technician: SB

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1600

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 1603 11:11 1247 6.10 psi 1235

1603 11:12 496 490 2.42 psi

Problem:

Action Taken: Removed TXR, TB, and desiccant. Pulled up PT for winter.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

1600

Site ID:

Service Log

Site Name: **Englewood Dam** Date: 16-Jul-13 Time: 10:38

Service Type: OneRain Service Ca Technician: NK/ZC Status: PT Down

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem: Intermitnit data. PT and voltage spiked 5 days ago.

Action Taken: Tested site with spare TX. Spare TX behaves as original one. Sending 16 V and PT topping out

on alert count. Tested PT with volt meter and PT cal. No voltage reading on PT when pumped

up. Bad PT

Site Notes:

Follow-Up: Replace PT

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: **Englewood Dam** Date: 18-Jul-13 Time: 13:58 Technician: NK/GH Service Type: Inspection Status: OK

**Configuration Changes** 

Part # Location PT D 3597530 1600 BY R 1310 1600

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1603 0.012 -0.1068 0.0367

Site ID:

1600

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load BY R 1310

12.94

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
1600	14:49	4		0
1600	14:49	4		0
1600	14:49	5		0
1600	14:49	5		0
1603	14:23	1793	9.10 psi	1577
1603	14:24	1402	7.11 psi	1238
1603	14:25	1047	5.30 psi	931
1603	14:26	618	3.11 psi	560
1603	14:27	238	1.17 psi	231
1603	14:28	31	0.11 psi	52
1603	14:29	1196	6.06 psi	1193
1603	14:30	234	1.15 psi	233

Down PT Problem:

Action Taken: Replaced PT and fixed broken conduit. Calibrated new PT. Replaced Battery. TB two tips. Site

operational.

{Auto Entry: Calibrated sensor 1603 by linear regression. Modified calibration data. New calibration [Slope(0.0118), Calibration Offset(-0.1068), Std Error(0.0367), Calibration

Date(7/18/2013 2:29:10 PM)]}.

Site Notes: lower PT pull box is 10ft N from the NW corner of the inlet structure.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Englewood Dam Date: 09-Sep-13 Time: 12:00
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error 1603 0.011 0.0003 0.0041

Site ID:

1600

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
1600	12:01	65			0
1600	12:03	66			0
1600	12:06	67			0
1603	12:15	1570	7.74	psi	1522
1603	12:16	1890	9.32	psi	1831
1603	12:17	1115	5.50	psi	1085
1603	12:18	489	2.41	psi	481
1603	12:19	51	0.25	psi	58
1603	12:20	1181	5.83	psi	1179
1603	12:21	220	1.09	psi	220

Problem:

Action Taken: TB clogged on arrival. TB cleaned and tipped. TB OK Installed upper screen on TB. Two point

PT test failed. Re-calibrated PT. PT OK Site OK

{Auto Entry: Calibrated sensor 1603 by linear regression. Modified calibration data. New calibration [Slope(0.0114), Calibration Offset(0.0003), Std Error(0.0041), Calibration

Date(9/9/2013 12:19:33 PM)]}.

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1600

Site ID:

Service Log

Site Name: Englewood Dam Date: 09-Jul-13 Time: 10:13
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1603 0.015 -2.5263 0.3414

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
1603	10:30	993	5.12	psi	901
1603	10:31	800	3.92	psi	698
1603	10:32	612	2.76	psi	501
1603	10:33	417	1.53	psi	293
1603	10:34	325	0.95	psi	194
1603	10:35	1006	5.22	psi	919
1603	10:36	779	3.80	psi	678
1603	10:37	624	2.83	psi	512
1603	10:38	466	1.83	psi	343
1603	10:39	350	1.11	psi	220

Problem:

Action Taken: TB partially clogged, cleared, and OK. Recalibrated PT, may need replaced.

{Auto Entry: Calibrated sensor 1603 by linear regression. Modified calibration data. New calibration [Slope(0.0145), Calibration Offset(-2.5263), Std Error(0.3414), Calibration

Date(7/9/2013 10:39:49 AM)]}.

Site Notes: Verify PT. Std Error is too high.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1610

Site ID:

Service Log

Site Name: Holly Dam Date: 07-Mar-13 Time: 11:06
Service Type: Start Up Technician: SB Status: OK

**Configuration Changes** 

Part # Location
TX J 27313 1610
BY R 1028 1610

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1610-3-0 00E

Jumpers: JB 3-5 off Eprom: R 1.8 9CA1

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 2.5

 Rev Power:
 0.1

 SWR:
 1.5

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1028 13.08

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1613
 11:22
 1132
 5.37 psi
 1119

 1613
 11:23
 441
 2.01 psi
 434

Problem:

Action Taken: Installed TXR, and desiccant. Replaced desiccant in PT box. RF is marginal continue to

monitor. Applied anti-seize to PT riser.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Service Log

Site Name: Time: 11:24 **Holly Dam** Date: 09-Sep-13 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1613 0.011 -0.4272 0.1296

Site ID:

1610

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
1613	11:38	1543	7.31	psi	1516
1613	11:39	1937	9.25	psi	1911
1613	11:40	1055	4.95	psi	1033
1613	11:41	483	2.16	psi	465
1613	11:42	101	0.31	psi	87
1613	11:43	1298	6.14	psi	1303
1613	11:44	291	1.24	psi	294

Problem:

Action Taken: changed out battery, Two point PT test failed. Re-calibrated PT. PT OK Site OK

{Auto Entry: Calibrated sensor 1613 by linear regression. Modified calibration data. New calibration [Slope(0.0112), Calibration Offset(-0.4272), Std Error(0.1296), Calibration Date(9/9/2013 11:43:02 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1610

Service Log

Site Name: Holly Dam Date: 09-Jul-13 Time: 10:56
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1613
 11:00
 535
 2.55 psi
 544

 1613
 11:01
 193
 0.88 psi
 203

Problem:

Action Taken: PT OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1610

Service Log

Site Name: Holly Dam Date: 04-Nov-13 Time: 11:42

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1613
 11:45
 1057
 4.95 psi
 1057

 1613
 11:46
 406
 1.77 psi
 402

**Problem:** poor hydraulic contact.

Action Taken: Pulled TXR, Battery, and desiccant for the season. Pulled up PT. Poor hydraulic contact.

During sep event debris has settled on the east side of outlet structure (where riser is). Need to

dig out and flush intake.

Site Notes:

Follow-Up: Bring pump to flush riser.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1620

Service Log

Site Name: Slaughterhouse Date: 02-Jul-13 Time: 15:02
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

 Sensor ID
 Slope
 Calib Offset
 Std Error

 1623
 0.011
 0.1389
 0.0473

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
1620	15:08	98		0
1620	15:11	99		0
1620	15:16	100		0
1623	15:06	1846	9.14 psi	i 1865
1623	15:07	1279	6.36 psi	i 1299
1623	15:09	641	3.21 psi	i 656
1623	15:10	408	2.07 psi	i 422
1623	15:11	112	0.61 psi	i 125

Problem:

Action Taken: Two point PT test failed. New calibration. PT OK TB logged. TB cleaned. TB three tips. TB OK

Site OK

{Auto Entry: Calibrated sensor 1623 by linear regression. Modified calibration data. New calibration [Slope(0.0113), Calibration Offset(0.1389), Std Error(0.0473), Calibration Data(7/2/2013 3:12:00 PM)]

Date(7/2/2013 3:12:09 PM)]}.

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1620

Service Log

Site Name:SlaughterhouseDate:09-Sep-13Time:12:51Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1140
 1620

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0404 12.96

Test Transmission Port Time Count Measure Predicted 1620 13:05 1 0 13:05 1620 2 0 1623 13:14 1285 6.36 psi 1287 1623 13:15 226 1.16 psi 225

**Problem:** low battery

Action Taken: Replaced battery. TB clean and clear on arrival. TB OK Two point PT test passed. PT OK Site

OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1620

Site ID:

Service Log

Site Name: Slaughterhouse Date: 04-Nov-13 Time: 12:32

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** TEE broke at riser.

Action Taken: Pulled TXR, Battery, TB, and desiccant for season. Could not test PT due to cars blocking path

to standpipe. Conduit is broken at riser.

Site Notes:

Follow-Up: Fix conduit at Tee

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1620

Site ID:

Service Log

Site Name: Slaughterhouse Date: 14-Mar-13 Time: 10:34
Service Type: Start Up Technician: SB/GH Status: OK

**Configuration Changes** 

Part # Location
TX J 11033 1620
TB J 23084 1620
BY R 0404 1620

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: **1620-00E** 

Jumpers: C:J6,1-2,J3,5off;L:J8,9,1-2

Eprom: R1.8 57FE Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0404 12.94

Test Transmission Port Time Count Measure Predicted 1620 11:00 1 0 11:00 1620 2 0 1623 10:47 1363 6.74 psi 1376 1623 10:48 304 1.54 psi 315

Problem:

Action Taken: Installed TXR, Battery, TB, and Desiccant. Lowered PT. Flushed intake. RF OK. PT OK. TB

OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1630

Service Log

Site Name: S Platte @ Dart Date: 11-Jul-13 Time: 13:21
Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1317
 1630

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Battery Low

Action Taken: Replaced battery. Staff gauge is within .1 feet of USGS. Precision does not allow to get any

closer.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1630

Site ID:

Service Log

Site Name: S Platte @ Dart Date: 12-Nov-13 Time: 10:01
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1124
 1630

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1124 13.24

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery. USGS sensor reading - 1.54'. UDFCD sensor reading - 1.45'. Site OK.

# MAINTENANCE RECORD Site ID: URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: SPR at Union Ave. Date: 24-Apr-13 Time: 13:09
Service Type: Start Up Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1313
 1640

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

1640

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

 Tx Freq:
 169.525

 Rx Freq:
 171.875

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1313 12.98

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Battery changed, desiccant changed. TB ok, RF OK Did not receive tips locally computer went

asleep. verified by contrail mobile.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1640

Service Log

Site Name: SPR at Union Ave. Date: 04-Nov-13 Time: 13:35
Service Type: End of Season Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

 Tx Freq:
 169.525

 Rx Freq:
 171.875

 Fwd Power:
 4.1

 Rev Power:
 0.1

 SWR:
 1.37

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

1640 13:37 162 0

Problem:

Action Taken: TB OK. RF OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1640

Service Log

Site Name: SPR at Union Ave. Date: 02-Jul-13 Time: 14:14
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 1640 14:19 49 0

1640 14:19 49 0 1640 14:20 51 0

Problem:

Action Taken: TB clean. two tips on TB, TB OK No PT. Taking stage data from USGS logger. Site OK

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:SPR at 19th StreetDate:11-Nov-13Time:11:01Service Type:End of SeasonTechnician:NK/SBStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1243
 1650

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Site ID:

1650

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 251
 5.00
 86
 2.4
 0.00

Settings and Performance

Switches: JB 9&10 @1&2,EvT-E,WL Jumpers: JB1off,JB2on,JB3on,Jb4o

Eprom:

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1304 13.50

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Tested TXR with IFR. TXR within specs. TXR OK. Changed battery and desiccant. Solar tested.

Solar OK. State of CO reading 2.82 ft. UDD reading 2.76 ft. Site OK.

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1650

Service Log

Site Name: SPR at 19th Street Date: 24-Apr-13 Time: 13:48
Service Type: Start Up Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1304
 1650

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: JB 9&10 @1&2,EvT-E,WL

Jumpers: JB1off,JB2on,JB3on,Jb4o

Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1304 12.89

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: changed out battery, and desiccant. RF ok, shaft encoder OK state of CO reads 3.23, one rain

reads 3.21 at 1356.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1650

Service Log

Site Name: SPR at 19th Street Date: 29-Jan-13 Time: 11:09
Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed frequency to 169.500 Mhz

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1650

Service Log

Site Name:SPR at 19th StreetDate:16-Jul-13Time:14:26Service Type:InspectionTechnician:NK/ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq: Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: State of CO reading 3.27 ft, OR reading 3.24 ft @ 14:30

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1660

Service Log

Site Name: SPR at Henderson Date: 20-Nov-13 Time: 10:53

Service Type: OneRain Service Ca Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location **BY R 1249** 1660

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: JB1&4 off, JB2&3 on

Eprom:

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1303 13.13

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1660
 11:13
 259
 0

 1660
 11:13
 261
 0

**Problem:** No longer reading stage

Action Taken: DNRW replaced bubbler. SDI 12 wire was disconnected. Re-connected SDI12 sniffer wire.

Changed battery and desiccant. TB clean and clear on arrival. TB OK. Can not talk to the SDI12

sniffer. We are bringing sniffer back to the shop.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1660

Service Log

Site Name: SPR at Henderson Date: 25-Nov-13 Time: 13:18
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Stage not working.

Action Taken: Re-programmed SDI12 sniffer to SDI address1. Site and stage now working. Site OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1660

Service Log

Site Name: SPR at Henderson Date: 06-Aug-13 Time: 14:05
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 1660 14:06 29 0

1660 14:06 29 0 1660 14:07 30 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1660

Site ID:

Service Log

Site Name: SPR at Henderson Date: 24-Apr-13 Time: 14:25
Service Type: Start Up Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1303
 1660

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: JB1&4 off, JB2&3 on

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.0

 SWR:
 1.1

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1303 12.98

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1660
 14:29
 0
 0

 1660
 14:30
 1
 0

Problem:

Action Taken: changed out battery and desiccant. TB ok, RF ok, solar OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1660

Service Log

Site Name: SPR at Henderson Date: 21-Jun-13 Time: 14:09
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed 4015 SDI12 sniffer. 0-10 feet range. Address 0 parameter 0

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Cherry Ck @ Champa Date: 11-Nov-13 Time: 11:30
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location BY R 0905 1700 Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1700

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

 Tx Freq:
 169.525

 Rx Freq:
 171.875

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0905 13.01

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1700
 11:35
 1111
 0

 1700
 11:36
 1112
 0

Problem:

Action Taken: Test TXR with watt meter. TXR OK. TB clean and clear on arrival. TB OK. Stage OK. Replaced

battery and desiccant. Site OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1700

Service Log

Site Name: Cherry Ck @ Champa Date: 15-May-13 Time: 14:39
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Site down. Not reporting for a few weeks

Action Taken: TXR set to wrong freq. Set freq to 169.500. Tested locally, OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1700

Service Log

Site Name: Cherry Ck @ Champa Date: 16-Jul-13 Time: 13:32
Service Type: Inspection Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 1700 13:43 1009 0

1700 13:48 1011 0

Problem:

Action Taken: TXR OK Replaced battery.TB clogged, TB cleaned. TB tipped three times. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1710

Service Log

Site Name:Shop CreekDate:25-Jul-13Time:11:12Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 1710 11:15 100 0

1710 11:15 100 0 1710 11:16 101 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1710

Site ID:

Service Log

Site Name: Shop Creek Date: 05-Feb-13 Time: 11:31
Service Type: Start Up Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TB J 16624 1710
BY R 1022 1710

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1710-0012-0112-11011

Jumpers: Eprom:

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1022 12.86

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1710
 11:45
 1
 0

 1710
 11:45
 2
 0

Problem:

Action Taken: Installed battery, TB, desiccant. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1710

Service Log

Site Name: Shop Creek Date: 09-Oct-13 Time: 13:08

Service Type: End of Season Technician: SB Status: Site Down

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1710-0012-0112-11011

Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 5.0

 Rev Power:
 0.1

 SWR:
 1.33

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed Battery, TB, and desiccant for the season. Pulled up PT.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1720

Site ID:

Service Log

Site Name: Cherry Ck/Steele Date: 18-Sep-13 Time: 13:07
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0502
 1720

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1119 13.01

Test Transmission

Port Time Count Measure Predicted

**Problem:** low battery

Action Taken: replaced battery. TB clogged on arrival. TB cleaned. PT intake flushed. Site OK

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1720

Measure Predicted

3.16 psi

1.42 psi

0

0

636

282

Service Log

Site Name: Cherry Ck/Steele Date: 08-Mar-13 Time: 15:15
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 21423
 1720

 TB H 561
 1720

 BY R 1119
 1720

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Time

15:47

15:48

15:41

15:42

Port

1720

1720

1723

1723

Part # Ref V Freg Err Deviation ROM Batt

Count

1

2

645

292

Settings and Performance

Switches: 1720-0012-1112-11011

Jumpers: W4,W10

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 2.9

 Rev Power:
 0.0

 SWR:
 1

**Battery Tests** 

Battery # V Quiescent V Load

TB S 0202 12.92 BY R 1119 12.90

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1720

Service Log

Site Name: Cherry Ck/Steele Date: 11-Nov-13 Time: 12:38

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1723
 12:51
 1484
 7.21 psi
 1464

 1723
 12:52
 400
 1.93 psi
 385

Problem:

Action Taken: Two Point PT test passed. PT good. PT pulled up for winter. TXR out, TB out. Site down. Found

intake pipe. Pipe is broken. In spring need to replace intake.

Site Notes:

Follow-Up: Replace intake pipe.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1720

Site ID:

Service Log

Site Name: Cherry Ck/Steele Date: 09-Jul-13 Time: 11:44
Service Type: Inspection Technician: MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1723
 12:00
 956
 4.66 psi
 943

 1723
 12:01
 431
 2.08 psi
 416

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1800

Service Log

Site Name: Sand Creek Park Date: 05-Sep-13 Time: 12:16
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 1800
 12:36
 163
 0

 1800
 12:37
 164
 0

1803 12:31 1046 5.15 psi 1042 1803 12:32 426 2.15 psi 425

Problem:

Action Taken: PT tested within acceptable range. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1800

Service Log

Site Name: Sand Creek Park Date: 13-Nov-13 Time: 12:21

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1803
 12:21
 1103
 5.41 psi
 1097

 1803
 12:22
 216
 1.12 psi
 213

Problem:

Action Taken: Removed TXR, TB, Battery, and desiccant for season. PT tested within acceptable range.

Damage to 90 in conduit. Needs replaced

Site Notes:

Follow-Up: Replace 90 in conduit.

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 1800

Service Log

Site Name: Time: 10:48 Sand Creek Park Date: 28-Mar-13 Technician: MZ/BL Service Type: Start Up Status: OK

**Configuration Changes** 

Part # Location TX J 08745 1800 TB J 18576 1800 PT D 3643168 1800 BY R 1029 1800

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1803 0.011 0.6291 0.0995

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1029 13.21

Test Transmission						
Port	Time	Count	Measure		Predicted	
1800	12:07	2			0	
1803	11:51	870	4.38	psi	878	
1803	11:51	547	2.89	psi	581	
1803	11:53	733	3.77	psi	755	
1803	11:56	1486	7.47	psi	1491	
1803	11:57	975	4.99	psi	998	
1803	11:57	642	3.38	psi	677	
1803	11:57	404	2.23	psi	449	
1803	11:58	177	1.13	psi	230	
1803	11:59	954	4.90	psi	980	
1803	11:59	772	4.03	psi	807	
1803	12:00	614	3.25	psi	651	
1803	12:00	372	2.08	psi	419	
1803	12:00	167	1.09	psi	222	

Problem:

Action Taken: Start Up. RF OK. TB OK. Installed new PT.

{Auto Entry: Calibrated sensor 1803 by linear regression. Modified calibration data. New calibration [Slope(0.0112), Calibration Offset(0.6291), Std Error(0.0995), Calibration Date(3/28/2013 12:01:01 PM)]}.

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1800

Service Log

Site Name: Sand Creek Park Date: 20-Jun-13 Time: 11:57
Service Type: Inspection Technician: Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 1803 0.011 0.1956 0.0303

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission					
Port	Time	Count	Measure		Predicted
1803	12:04	1053	5.19	psi	1013
1803	12:05	828	4.10	psi	788
1803	12:06	635	3.17	psi	596
1803	12:07	438	2.21	psi	399
1803	12:08	214	1.12	psi	175
1803	12:10	801	3.97	psi	799
1803	12:11	400	2.02	psi	399

Problem:

Action Taken: TB OK. PT Recalibrated.

{Auto Entry: Calibrated sensor 1803 by linear regression. Modified calibration data. New calibration [Slope(0.0112), Calibration Offset(0.1956), Std Error(0.0303), Calibration

Date(6/20/2013 12:10:04 PM)]}.

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1810

Site ID:

Service Log

Site Name: Sand Creek Mouth Date: 29-Jan-13 Time: 10:19
Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0432
 1810

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq:

Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0432 12.85

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1813
 10:39
 740
 3.48 psi
 711

 1813
 10:40
 1004
 4.86 psi
 993

Problem: Arrived on site to switch over to 169.500 for A2 thru Smoky Hill Rptr. Site found with USGS

shack off moorings, GOES antenna pulled down, large hole in side of shack.

Action Taken: Switched frequency. Checked PT conduit, OK. Photographed damage. Notified USGS.

Tested PT. PT OK. Poor hydraulic contact. Replaced battery.

Site Notes:

**Follow-Up:** Dig out hydraulic contact.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Sand Creek Mouth Date: 13-Nov-13 Time: 10:46

Service Type: OneRain Service Ca Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1810

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed complete site from current location. Will relocate site in spring. Site down. TXR out, TB

out. Solar out.

Site Notes: No longer at water treatment plant in old USGS shack.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1810

Service Log

Site Name: Sand Creek Mouth Date: 25-Sep-13 Time: 10:01
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1810
 10:14
 353
 0

 1810
 10:14
 354
 0

**Problem:** PT stopped reporting during flood event.

Action Taken: PT conduit destroyed. Was able to find PT cable, however PT end sensor is missing. Removed

PT. Removed desiccant and sig conditional box. Something cut the cable near the end. Turned JP3 on TX. Building structure is fine. TX is good. Site is rain only now. TB clean and clear on

arrival. TB OK Consider relocating across river with USGS site.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Niver Detention Date: 06-Nov-13 Time: 12:13

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

1900

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1903
 12:18
 1052
 5.34 psi
 1080

 1903
 12:21
 298
 1.50 psi
 303

Action Taken: Removed TXR, Battery, TB, and desiccant for season. Top end of PT did not calibrate in range.

Re-calibrate when conduit is fixed. Replaced top screen.

Site Notes:

Problem:

Follow-Up: Fix conduit and calibrate PT.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1900

Site ID:

Service Log

Site Name: Niver Detention Date: 15-Mar-13 Time: 11:24
Service Type: Start Up Technician: GH Status: OK

**Configuration Changes** 

Part # Location
TX J 25153 1900
TB J 10764 1900
BY R 1006 1900

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1900-00E

Jumpers: C:J6,1-2,J3,J5 off; L:J9,10

**Eprom**: **R 1.8-3min. 57FE** 

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 5.0

 Rev Power:
 0.3

 SWR:
 1.65

**Battery Tests** 

Battery # V Quiescent V Load

TX J 25153 13.08

Test Transmission						
Port	Time	Count	Measure	Predicted		
1900	11:48	1		0		
1900	11:59	2		0		
1900	11:59	3		0		
1903	12:21	1027	4.98 psi	1007		
1903	12:24	402	1.94 psi	392		

Problem:

Action Taken: Installed TXR, TB, PT, dessicant. Leveled TB. Cleaned TB funnel, large screen missing. PT pipe

separated from conduit.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1900

Site ID:

Service Log

Site Name:Niver DetentionDate:13-Jun-13Time:14:05Service Type:InspectionTechnician:MZStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 1900-00E

Jumpers: C:J6,1-2,J3,J5 off; L:J9,10

**Eprom**: **R 1.8-3min. 57FE** 

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1903
 14:12
 962
 4.80 psi
 970

 1903
 14:15
 450
 2.24 psi
 452

Problem:

Action Taken: TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1900

Service Log

Site Name: Niver Detention Date: 14-Aug-13 Time: 13:36
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1900
 13:37
 123
 0

 1900
 13:37
 124
 0

Problem:

Action Taken: TB clogged on arrival. TB cleaned. TB received two tips. TB OK Two point PT test passed. PT

OK

Conduit near riser is broken and riser has dropped about 6 inches. Need to re-strap riser to wall,

and fix broken union.

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1920

Site ID:

1320

Service Log

Site Name:BrightonDate:26-Jun-13Time:13:07Service Type:InspectionTechnician:MZStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

**Action Taken:** @ 13:13 ID 1921 raw = 38 => 15% RH, ID 1922 raw = 174 => 94 deg.F, psychrometer readings

Td = 93 deg.F, Tw = 63 deg.F implying RH = 19% and dp = 45 deg.F. TB OK. Solar OK, Wind

DK.

Site Notes:

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1920

Service Log

Site Name: Brighton Date: 21-Aug-13 Time: 14:35
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0509
 1920

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 1920

Jumpers:

Eprom: 9601-01-N Ver 3.5R

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0509 13.06

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1920
 14:48
 1832
 0

 1920
 14:48
 1833
 0

**Problem:** Battery Dead

Action Taken: Replaced battery. Checked solar. 19.8 volts @ 5ma. Solar is failing will need replaced in the

future. TB clean and clear on arrival. TB received two tips. TB OK Anemometer free of

movement. WS and WD values seem reasonable. Station values @ 14:43 AT 92 raw = 172. RH

23.92% raw = 61.... Psycrometer AT 94 F RH 20% @ 14:54.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

1920

Site ID:

Service Log

Site Name: Brighton Date: 06-Sep-13 Time: 10:41
Service Type: OneRain Service Ca Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 9735
 1920

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0509 13.17

Test Transmission

Port Time Count Measure Predicted

**Problem:** low battery, bad solar panel

Action Taken: replaced solar panel and changed out battery. TB clear and clean on arrival. Site OK

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 1920

Service Log

Site Name: Brighton Date: 20-Nov-13 Time: 10:25
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1316
 1920

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX N 231 167 2.2 0.00

Settings and Performance

Switches: 1920

Jumpers:

Eprom: 9601-01-N Ver 3.5R

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1316 12.99

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 1920
 10:39
 2027
 0

 1920
 10:39
 2028
 0

Problem:

Action Taken: Changed out battery and desiccant. Tested TXR with IFR. TXR is within specs. TXR OK. Tested

solar. Solar OK. Anemometer free of movement. WS and WD OK. TB clean and clear on arrival.

TB OK. Site OK.

Digital Psycrometer readings @ 10:39 AT = 59.4F RH= 26.3%

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2210

Service Log

Site Name: Hiwan Date: 22-Oct-13 Time: 10:45

Service Type: End of Season Technician: SB Status: Site Down

Configuration Changes

 Part #
 Location

 BY R 1301
 2210

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 3.5

 Rev Power:
 0.1

 SWR:
 1.41

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1301 12.99

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Wind OK. Good freedom of movement. TB OK. AT reading 55 actual 54. RH Reading 32,

actual 30. Replaced battery and desiccant. Solar OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2210

Service Log

Site Name: Hiwan Date: 02-Jul-13 Time: 12:24

Service Type: OneRain Service Ca Technician: NK Status: Wind down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission					
Port	Time	Count	Measure	Predicted	
2210	10:01	1033		0	
2210	10:01	1049		0	
2210	10:01	1034		0	
2210	10:02	1034		0	

Problem:

Action Taken: TB clean. TB tipped two times.TB OK Replaced Wind Speed sensor. New sensor is not working.

Reading 0 mph with wind present. Taking back wind speed sensor to OR to troubleshoot.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2210

Service Log

Site Name:HiwanDate:09-Jul-13Time:12:21Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2210
 12:18
 1050
 0

 2210
 12:19
 1051
 0

Problem:

Action Taken: Installed new bearing for wind sensor. Updated FW in data logger to 26 (previously 14).

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2210

Service Log

Site Name: Hiwan Date: 18-Feb-13 Time: 13:19
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1208
 2210

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 3.5

 Rev Power:
 0.2

 SWR:
 1.63

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1208 13.41

Port Time Count Measure Predicted 2210 13:26 904 0

2210 13:26 904 0 2210 13:27 905 0 2212 13:28 72 0

Problem:

Action Taken: Replaced battery and desiccant. RF OK. TB OK. RHAT OK. Could not use psychromter due to

cold conditions. Wind sensor appears to not be operating effectively. May need replacement.

Site Notes:

Follow-Up: Replace wind sensor

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2210

Service Log

Site Name: Hiwan Date: 26-Sep-13 Time: 10:44
Service Type: Service Call Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
2210 10:48 1204 0

2210 10:51 1205 0 2210 10:51 1206 0

**Problem:** customer believes TB is plugged.

Action Taken: TB was partially clogged. TB cleaned. TB was level on arrival. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2210

Site ID:

Service Log

Site Name: Hiwan Date: 30-Jan-13 Time: 10:54
Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed frequency to 169.500.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Evergreen LakeDate:29-Oct-13Time:11:11Service Type:End of SeasonTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2220

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Cant access site

Action Taken: A new lock has been placed on the chain. This lock is a larger diameter and will not allow ours

to be removed. Can not access site.

Site Notes: Evergreen Metro District 303-674-4112

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2220

Service Log

Site Name: Evergreen Lake Date: 27-Mar-13 Time: 14:20
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0440
 2220

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0440 12.99

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2223
 14:30
 1006
 4.45 psi
 1006

 2223
 14:31
 349
 1.55 psi
 350

Problem:

Action Taken: Start Up. RF OK, PT OK. Change battery and desiccant.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2220

Service Log

Site Name:Evergreen LakeDate:19-Aug-13Time:12:24Service Type:InspectionTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2223
 12:25
 1386
 6.19 psi
 1400

 2223
 12:26
 424
 1.90 psi
 429

Problem:

Action Taken: Two point PT test passed. PT cal good. PT OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Evergreen LakeDate:02-Jul-13Time:11:39Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1309
 2220

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2220

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1309 12.90

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery. Site ok

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2220

Service Log

Site Name: Evergreen Lake Date: 01-Jul-13 Time: 13:32
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2223
 13:34
 1690
 7.43 psi
 1681

 2223
 13:35
 390
 1.76 psi
 397

Problem:

Action Taken: Two point PT test passed. PT OK Site OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Service Log

Site Name: **Evergreen Lake** Date: 02-Dec-13 Time: 10:07 Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

Location Part # BY R 1112 2220

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2220

Tx Maintenance

Part # Ref V Deviation ROM Batt Freg Err **TX J 289** 5.00 218 2.4 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1309 13.05 Test Transmission

Port Time Count Predicted Measure 2223 10:13 1567 7.00 psi 1583 2223 10:14 402 397 1.78 psi

Problem:

Action Taken: Changed out battery and desiccant. Tested TXR with IFR. TXR is within specs. TXR OK. Two

point PT test passed. PT OK. Site OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2230

Service Log

Site Name: Bear Creek @ Cub Date: 27-Mar-13 Time: 13:43
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25158
 2230

 TB H 1175
 2230

 BY R 9733
 2230

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Battery Tests

Battery # V Quiescent V Load

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
2230	13:57	2		0
2230	13:57	2		0
2230	13:57	3		0
2230	13:57	3		0
2230	13:58	5		0
2230	13:58	5		0
2230	13:58	6		0
2230	13:58	6		0
2233	13:54	877	3.74 psi	866
2233	13:55	367	1.38 psi	376

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2230

Site ID:

Service Log

Site Name: Bear Creek @ Cub Date: 22-Oct-13 Time: 12:11

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Standpipe had 1 foot of water in it. Pulled PT up for winter. Removed TXR, Battery, Desiccant,

and TB. Area was heavily flooded. May need to reconstruct conduit after construction. Good

hydraulic contact.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2230

Service Log

Site Name: Bear Creek @ Cub Date: 28-Aug-13 Time: 12:26
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 2230 12:24 1 0

2230 12:25 2 0

**Problem:** Site not reporting

Action Taken: Found battery to be dead. Bad battery. Replaced. Site OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2230

Service Log

Site Name: Bear Creek @ Cub Date: 28-Jun-13 Time: 12:50
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Measure	Predicted			
2230	12:57	112		0			
2230	12:59	113		0			
2230	12:59	114		0			
2233	12:53	1174	5.26 psi	1180			
2233	12:54	537	2.19 psi	544			

Problem:

Action Taken: PT tested within acceptable range. TB OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2230

Service Log

Site Name: Bear Creek @ Cub Date: 19-Aug-13 Time: 12:38
Service Type: Inspection Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1140
 2230

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 9733 13.04

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2233
 12:38
 1250
 5.61 psi
 1255

 2233
 12:39
 633
 2.65 psi
 639

**Problem:** Low Battery

Action Taken: PT Tested OK. Changed battery. TB clogged. Cleaned.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2240

Service Log

Site Name: Cold Spring Glch Date: 28-Jun-13 Time: 11:53
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
2240 12:02 106 0

2240 12:02 107 0 2243 11:56 1056 5.14 psi 1061 2243 11:57 431 2.11 psi 437

Problem:

Action Taken: PT tested within acceptable range. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2240

Service Log

Site Name: Cold Spring Glch Date: 19-Aug-13 Time: 13:06
Service Type: Inspection Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

2240 13:15 239 0 2243 13:13 921 4.48 psi 925 2243 13:14 455 2.22 psi 459

Problem:

Action Taken: TB received three tips. TB clean and clear on arrival. TB OK Two point PT test passed. PT OK

Site OK

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2240

Service Log

Site Name: Cold Spring Glch Date: 27-Mar-13 Time: 12:42
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25150
 2240

 TB H 616
 2240

 BY R 0401
 2240

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0401 13.10

Test Transmission Port Time Count Measure Predicted 2240 12:54 1 0 2240 12:54 0 3 2240 12:54 3 0 12:54 2240 5 0 2240 12:54 5 0 2240 12:56 2243 12:51 768 764 3.70 psi 2243 12:53 289 1.39 psi 289

Problem:

Action Taken: Start Up. RF OK, TB OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Cold Spring Glch Date: 29-Oct-13 Time: 12:50

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2240

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** PT Riser destroyed. PT stuck in earth.

Action Taken: Removed TXR, Battery, TB, and Desiccant for season. PT Riser was destroyed and PT is stuck

in the ground. Need to come back with proper tools.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2250

Service Log

Site Name: Rosedale Date: 26-Sep-13 Time: 9:48
Service Type: Service Call Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Measu	ıre	Predicted		
2250	10:00	465			0		
2250	10:02	466			0		
2250	10:02	467			0		
2253	9:55	1560	7.35	psi	1534		
2253	9:57	295	1.22	psi	272		
2253	9:59	705	3.22	psi	682		

**Problem:** PT showing little stage change

Action Taken: Three point PT test passed. Flushed PT intake pipe. Can not find end of intake. Conduit seems

to be intact. Water pretty high, probably 8 inches below bridge. Talked to local near site. Said during flood water was 2 to 3 ft. above the road. Road was completely wiped out after flood. TB

clean and clear on arrival. Site seems OK Will check PT data again.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2250

Service Log

Site Name: Rosedale Date: 04-Apr-13 Time: 12:35
Service Type: Start Up Technician: SB/NK Status: OK

**Configuration Changes** 

Part # Location
TX J 21421 2250
TB H 467 2250
BY R 1132 2250

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2250-0012-1112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1132 13.32

Test Transmission Port Time Count Measure Predicted 2250 13:01 1 0 2250 13:01 2 0 2253 12:48 1287 1287 6.15 psi 12:50 2253 529 2.48 psi 531

Problem:

Action Taken: Installed TXR, Battery, TB, Desiccant, and lowered PT. PT tested OK. Good hydraulic contact.

RF OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2250

Service Log

Site Name:RosedaleDate:28-Jun-13Time:13:10Service Type:InspectionTechnician:ZCStatus:OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 2250 13:17 98 0 2250 13:17 99 0 2250 13:18 100 0 519 521 2253 13:15 2.43 psi 2253 13:16 1071 5.10 psi 1070

Problem:

Action Taken: PT tested within acceptable range. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2250

Service Log

Site Name:RosedaleDate:28-Aug-13Time:11:50Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 2250
 12:00
 271
 0

 2250
 12:01
 272
 0

2253 11:56 1100 5.24 psi 1099 2253 11:57 450 2.10 psi 451

Problem:

Action Taken: PT tested within acceptable range. PT OK. TB OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2250

Service Log

Site Name: Rosedale Date: 22-Oct-13 Time: 11:21

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 2253 11:26 828 3.78 psi 797

253 11:26 828 3.78 psi 797

**Problem:** Water in standpipe

Action Taken: Found TXR submerged in water in standpipe. Approx. 1 foot of water in pipe. Did not have

proper pump attachment to remove water. Removed TXR, Battery, TB, and desiccant. Zip tied

cables out of water. Flushed intake.

Site Notes:

Follow-Up: Water in standpipe.

# MAINTENANCE RECORD Site ID: URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Brook Forest Date: 22-Oct-13 Time: 13:20

Service Type: End of Season Technician: SB Status: Site Down

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

2260

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2260-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq:
Fwd Power:
Rev Power:
SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2260

Service Log

Site Name: Brook Forest Date: 18-Feb-13 Time: 14:00
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25149
 2260

 TB H 553
 2260

 BY R 1122
 2260

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2260-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1122 13.40

Port Time Count Measure Predicted
2260 14:08 1 0

 2260
 14:08
 1
 0

 2260
 14:09
 20
 0

 2260
 14:09
 21
 0

Problem:

Action Taken: Installed TXR, battery, TB. RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2260

Site ID:

Service Log

Site Name: Brook Forest Date: 30-Jul-13 Time: 8:07
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2260-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2260
 8:07
 258
 0

 2260
 8:08
 259
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2270

Service Log

Site Name:Cub Ck below BlueDate:28-Aug-13Time:12:35Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Measi	ure	Predicted		
2270	12:51	280			0		
2270	12:51	281			0		
2273	12:41	1148	5.63	psi	1155		
2273	12:42	383	1.79	psi	384		

Problem:

Action Taken: PT tested within acceptable range. Intake was clogged. Remove cap, cleaned, flushed intake.

PT OK with good hydraulic contact. TB OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2270

Service Log

Site Name: Cub Ck below Blue Date: 28-Jun-13 Time: 12:28
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

PortTimeCountMeasurePredicted227012:381060

 2270
 12:38
 107
 0

 2273
 12:32
 1079
 5.29 psi
 1086

 2273
 12:33
 442
 2.10 psi
 446

Problem:

Action Taken: PT tested within acceptable range. TB OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2270

Service Log

Site Name: Cub Ck below Blue Date: 04-Apr-13 Time: 13:22
Service Type: Start Up Technician: SB/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 15786
 2270

 TB H 551
 2270

 BY R 0413
 2270

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 2270-0012-1112-11011

Jumpers: W10,W4

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load TB H 551 0.10 4.00

BY R 0413 13.60

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2273
 13:33
 1125
 5.53 psi
 1135

 2273
 13:34
 507
 2.42 psi
 511

Problem:

Action Taken: Installed TXR, BAT, TB. Tested PT. PT calibrated within acceptable range. TX ok, TB ok

Site Notes:

Follow-Up: Consider replacing stand pipe mast. Bent and obstructs top section

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2270

Site ID:

Service Log

Site Name: Cub Ck below Blue Date: 22-Oct-13 Time: 12:47

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2273
 12:59
 871
 4.24 psi
 875

2273 13:00 444 2.09 psi 445

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for season. Pulled up PT.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2280

Site ID:

Service Log

Site Name: Kinney Peak Date: 18-Feb-13 Time: 14:43
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25157
 2280

 TB H 9401
 2280

 BY R 1134
 2280

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1134 13.10

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2280
 14:51
 1
 0

 2280
 14:51
 3
 0

Problem:

Action Taken: Installed TXR, battery and TB. RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2280

Service Log

Site Name: Kinney Peak Date: 29-Oct-13 Time: 11:40

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TB, TXR, Battery and desiccant for season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Kinney Peak Date: 30-Jul-13 Time: 8:41
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1102
 2280

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2280

0

0

Tx Maintenance

2280

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq:

Fwd Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1134 13.14

 Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2280
 8:54
 0
 0

 2280
 8:57
 1
 0

2

2280 8:58 3

8:57

Problem:

Action Taken: Replaced battery. TB clean and clear on arrival. TB received three tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2310

Service Log

Site Name: Genesee Village Date: 26-Sep-13 Time: 11:10
Service Type: OneRain Service Ca Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2310-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** suspecting clogged TB

Action Taken: TB clean and clear on arrival. TB received four tips. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2310

Service Log

Site Name:Genesee VillageDate:30-Jul-13Time:11:29Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2310-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.500** 

Rx Freq:
Fwd Power:
Rev Power:
SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2310

Service Log

Site Name: Genesee Village Date: 18-Feb-13 Time: 11:11
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25156
 2310

 TB H 570
 2310

 BY R 1002
 2310

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2310-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1002 13.02

Test Transmission						
Port	Time	Count	Measure	Predicted		
2310	11:21	1		0		
2310	11:21	2		0		
2310	11:22	4		0		
2310	11:22	5		0		

Problem:

Action Taken: Installed TXR, battery, and TB. RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Genesee Village Date: 22-Oct-13 Time: 9:55

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2310

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2310-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2320

Service Log

Site Name: Choke Cherry Res Date: 01-Jul-13 Time: 10:58
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted
2320 11:57 136 0

 2320
 11:57
 136
 0

 2320
 11:59
 137
 0

 2320
 11:59
 138
 0

Problem:

Action Taken: TB clear. TB tipped twice. TB OK RPT OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2320

Service Log

Site Name: Choke Cherry Res Date: 28-Aug-13 Time: 10:26
Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

*Eprom:* **2320 J** 

Tx Freq: 169.525

Rx Freq: 169.525

Fwd Power: 3.0

Rev Power: 0.1

SWR: 1.45

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 2320 10:40 258 0

2320 10:43 259 0

Problem:

Action Taken: RF OK. Could not get long enough transmission to complete watt test. Radio appears OK.

Possible low side of output.

Site Notes:

Follow-Up: Monitor Radio Output

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2320

Service Log

Site Name: Choke Cherry Res Date: 04-Apr-13 Time: 10:43
Service Type: OneRain Service Ca Technician: SB/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 RP N 2066
 2320

 BY R 1233
 2320

 BY R 1027
 2320

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1027 13.06

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2320
 11:29
 6
 0

 2320
 11:30
 7
 0

**Problem:** TB sensor on repeater not working

Action Taken: Replaced repeater. Replaced cavity filter with crystal filter. TB OK. RF OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

2320

Service Log

Site Name: Date: 30-Jan-13 Time: 11:49 **Choke Cherry Res** Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed rptr for change to 169.500

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2320

Service Log

Site Name: Choke Cherry Res Date: 18-Feb-13 Time: 11:31
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 RP N 2071
 2320

 BY R 1233
 2320

 BY R 1225
 2320

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1233 12.60 BY R 1225 13.20 Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed new Rptr with radios programmed for 169.500. Installed cavity filter tuned for 169.500

Site Notes: Red-Transmit (Yagi)

Blue - Receive (ombi)

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2330

Service Log

Site Name: Morrison Date: 04-Apr-13 Time: 14:22
Service Type: Service Call Technician: SB/NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 2333 0.011 -0.0043 0.0019

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq: Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Meas	sure	Predicted		
2333	14:50	1879	8.94	psi	2089		
2333	14:51	1480	7.04	psi	1648		
2333	14:52	1051	5.00	psi	1172		
2333	14:53	618	2.94	psi	693		
2333	14:54	221	1.05	psi	252		
2333	14:55	1033	4.92	psi	1032		
2333	14:56	445	2.12	psi	444		

**Problem:** PT not reporting

Action Taken: JB3 was on, not allowing for PT to TX. Removed JB3. PT good. TX good. PT calibrated.

{Auto Entry: Calibrated sensor 2333 by linear regression. Modified calibration data. New calibration [Slope(0.0110), Calibration Offset(-0.0043), Std Error(0.0019), Calibration

Date(4/4/2013 2:54:37 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2330

Service Log

Site Name: Morrison Date: 30-Jan-13 Time: 10:03
Service Type: OneRain Service Ca Technician: PB/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed frequency to 169.500.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Morrison Date: 03-Jan-13 Time: 11:27
Service Type: OneRain Service Ca Technician: PB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2330

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq: Fwd Power:

Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** PT over-reporting.

Action Taken: Could not access PT, frozen solid. Jumpered J3.

Site Notes:

Follow-Up: Replace PT on spring startup.

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

Site ID: 2330

Service Log

Site Name: Morrison Date: 06-Nov-13 Time: 10:10 Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location TX J 2177 2330 BY R 1002 2330

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 2333 0.011 -0.0234 0.0078

Tx Maintenance

Part # Ref V Deviation ROM Batt Freq Err **TX J 217** 5.00 288.5 2.5 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load BY R 1002

13.01

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
2330	11:20	1			0
2330	11:20	2			0
2333	11:07	1255	7.26	psi	1524
2333	11:17	2006	9.49	psi	1990
2333	11:18	1533	7.25	psi	1521
2333	11:19	1075	5.08	psi	1067
2333	11:21	557	2.63	psi	552
2333	11:21	2	0.00	psi	0
2333	11:22	1646	7.79	psi	1650
2333	11:23	410	1.93	psi	411

Problem:

Action Taken: Changed battery and desiccant. Tested TX with IFR field procedures. TXR is within specs. TXR OK. RF OK. Had to adjust

zero and span on sig board for PT. Re-calibrated PT. PT OK. TB OK. Solar OK. Site OK.

{Auto Entry: Calibrated sensor 2333 by linear regression. Modified calibration data. New calibration [Slope(0.0109), Calibration Offset(-0.0234), Std Error(0.0078), Calibration Date(11/6/2013 11:22:19 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2330

Service Log

Site Name: Morrison Date: 28-Aug-13 Time: 13:23
Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted
2330 13:26 263 0

 2330
 13:26
 263
 0

 2330
 13:26
 264
 0

 2333
 13:25
 1237
 5.85 psi
 1226

 2333
 13:26
 486
 2.27 psi
 477

Problem:

Action Taken: PT tested within acceptable range. State gauge reading 6.31 feet. Our site is reading 6.35.

TB OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2330

Service Log

Site Name: Morrison Date: 28-Jun-13 Time: 11:25
Service Type: Inspection Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tran	ismission				
Port	Time	Count	Meas	sure	Predicted
2330	11:31	183			0
2330	11:31	184			0
2333	11:27	462	2.21	psi	464
2333	11:28	1066	5.09	psi	1068
2370	11:04	1			0
2370	11:04	2			0

Problem:

Action Taken: PT tested within acceptable range. TB OK Stage gauge reporting 5.76' at time of test. PT

reporting 5.86' at time of test.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2330

Site ID:

Service Log

Site Name: Morrison Date: 27-Mar-13 Time: 11:39

Service Type: Start Up Technician: MZ Status: PT Down

**Configuration Changes** 

 Part #
 Location

 BY R 1003
 2330

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1003 13.10

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2330
 11:52
 75
 0

 2330
 11:53
 76
 0

Problem:

Action Taken: Start Up. RF OK, TB OK. Changed battery.

PT needs replaced (15-20')

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2340

Service Log

Site Name: El Rancho Date: 30-Jul-13 Time: 11:07
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission						
Port	Time	Count	Measure	Predicted		
2340	11:08	116		0		
2340	11:08	116		0		
2340	11:08	117		0		
2340	11:08	117		0		

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2340

Site ID:

Service Log

Site Name: El Rancho Date: 22-Oct-13 Time: 10:25

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and Desiccant for season.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2340

Site ID:

Service Log

Site Name: El Rancho Date: 18-Feb-13 Time: 12:56
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 23326
 2340

 TB J 8373
 2340

 BY R 0347
 2340

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2340-3-D

Jumpers: C:J6,1-2,J5off;L:J9,10,1-2,

Eprom: R 1.8 9CA1

Tx Freq: 169.525

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0347 13.10

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2340
 13:06
 1
 0

 2340
 13:06
 2
 0

Problem:

Action Taken: Installed TXR, battery and TB. RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2340

Service Log

Site Name: El Rancho Date: 04-Apr-13 Time: 11:48
Service Type: OneRain Service Ca Technician: SB/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1004
 2340

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power:
Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2340
 11:56
 1
 0

 2340
 11:57
 2
 0

**Problem:** Low Battery

Action Taken: Replaced Battery

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Idledale Date: 18-Feb-13 Time: 15:31
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25147
 2350

 TB H 514
 2350

 BY R 1229
 2350

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2350

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1229 13.00

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2350
 15:36
 1
 0

 2350
 15:37
 2
 0

Problem:

Action Taken: Installed TXR, battery, TB. RF ok, TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2350

Site ID:

Service Log

Site Name: Idledale Date: 29-Oct-13 Time: 13:23

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** poor rain catch.

Action Taken: Removed TXR, Battery, TB, and desiccant for the season.

Site Notes:

**Follow-Up:** Need to trim tree in the spring.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2350

Service Log

Site Name: Idledale Date: 30-Jul-13 Time: 9:43
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2350
 9:44
 148
 0

 2350
 9:46
 149
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Tree is starting to over grow around

stand pipe. Should consider removing some limbs on the tree.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Indian Hills Date: 29-Oct-13 Time: 12:31

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2360

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2360-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Removed TXR, Battery, TB, and desiccant for season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Indian HillsDate:30-Jul-13Time:9:26Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

2360

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2360-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 2360 9:27 175 0 9:27 175 0 2360 2360 9:28 176 0 176 0 2360 9:28

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2360

Service Log

Site Name: Indian Hills Date: 27-Mar-13 Time: 13:15
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25146
 2360

 TB H 566
 2360

 BY R 0403
 2360

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 2360-0012-0112-11011

Jumpers:

Eprom: B

*Tx Freq:* **169.525** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0403 12.83

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2360
 13:25
 1
 0

 2360
 13:25
 2
 0

Problem:

Action Taken: Start Up. RF OK, TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2370

Site ID:

Service Log

Site Name:Red RocksDate:28-Jun-13Time:10:37Service Type:InspectionTechnician:ZCStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1301
 2370

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1301 12.84

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2373
 10:58
 1086
 5.13 psi
 1093

 2373
 10:59
 456
 2.09 psi
 462

**Problem:** Low battery

Action Taken: Replaced battery. PT tested within acceptable range. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2370

Service Log

Site Name: Red Rocks Date: 27-Mar-13 Time: 10:56
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 TX J 25148
 2370

 TB H 555
 2370

 BY R 0349
 2370

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0349 13.30

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
2370	11:19	1		0
2370	11:20	2		0
2370	11:21	4		0
2370	11:21	5		0
2373	11:13	933	4.32 psi	926
2373	11:14	694	3.21 psi	695
2373	11:15	415	1.86 psi	415

Problem:

Action Taken: Start Up. RF OK, PT OK, TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

2370

Site ID:

Service Log

Site Name: Red Rocks Date: 06-Nov-13 Time: 9:35

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 2373
 9:51
 1539
 7.30 psi
 1545

 2373
 9:52
 370
 1.67 psi
 374

Problem:

Action Taken: Two point PT test passed. Current PT cal good. PT up, TXR out, TB out, Site Down

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 2370

Service Log

Site Name:Red RocksDate:28-Aug-13Time:13:38Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
2370 13:47 93 0

2373 13:44 1107 5.21 psi 1111 2373 13:45 431 1.96 psi 435

Problem:

Action Taken: PT tested within range. Intake clogged with mud. Removed cap and flushed. TB OK>

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Crescent Rain Date: 19-Feb-13 Time: 13:19
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
BY R 0803 4010

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4010

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4010

Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 2.5

 Rev Power:
 0.1

 SWR:
 1.5

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0803 13.00

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery and desiccant. RF ok TB OK No change in power of radio over winter.

Continue to monitor performance.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Crescent Rain Date: 29-Oct-13 Time: 11:44
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location **BY R 0422 4010** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4010

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 869
 5.01
 278
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 0803 13.28

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4010
 11:56
 1
 0

 4010
 11:57
 2
 0

Problem:

Action Taken: Tested TXR with IFR. All IFR measurements are within spec. TXR OK. vwsr = 1.32. RF OK TB

clean and clear on arrival. TB OK Battery and desiccant were changed. Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4010

Service Log

Site Name: Crescent Rain Date: 01-Aug-13 Time: 14:16
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4010 14:17 223 0

4010 14:17 223 0 4010 14:17 224 0

Problem:

Action Taken: TB clean and clear. TB received two tips. TB ok

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4020

Site ID:

Service Log

Site Name: Rio Grande Rain Date: 19-Feb-13 Time: 13:57
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0946
 4020

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4020-00E

 Jumpers:
 C:J5 off

 Eprom:
 R 1.8 57FE

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 25.0

 Rev Power:
 0.2

 SWR:
 1.2

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0946 13.20

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4020
 14:12
 1
 0

 4020
 14:12
 2
 0

Problem:

Action Taken: Replaced battery and desiccant. RF ok TB OK Solar shaded.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4020

Service Log

Site Name:Rio Grande RainDate:29-Oct-13Time:10:58Service Type:End of SeasonTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location BY R 1208 4020 Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4020-00E

 Jumpers:
 C:J5 off

 Eprom:
 R 1.8 57FE

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 20.0

 Rev Power:
 0.1

 SWR:
 1.15

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0946 13.31

Test Transmission						
Port	Time	Count	Measure	Predicted		
4020	11:07	0		0		
4020	11:08	0		0		
4020	11:13	1		0		
4020	11:13	2		0		

Problem:

Action Taken: TXR tested with Watt meter. TXR OK RF OK TB clean and clear on arrival. TB OK Battery and

desiccant were changed. Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4020

Service Log

Site Name:Rio Grande RainDate:06-Aug-13Time:11:12Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

 4020
 11:17
 202
 0

 4020
 11:18
 203
 0

 4020
 11:18
 204
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received three tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4030

Service Log

Site Name:Red Garden RainDate:19-Feb-13Time:11:23Service Type:Start UpTechnician:ZC/SBStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 0601
 4030

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:

Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0601 13.20

Test Transmission

Port Time Count Measure Predicted 4030 11:44 1 0 4030 11:50 2 0 4030 11:50 3 0

Problem:

Action Taken: Replaced battery and desiccant. RF ok, TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4030

Service Log

Site Name:Red Garden RainDate:18-Nov-13Time:11:33Service Type:End of SeasonTechnician:SBStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1252
 4030

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4030-00e

 Jumpers:
 C: J5 off

 Eprom:
 585B

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1252 12.90

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4030
 11:51
 1
 0

 4030
 11:51
 3
 0

Problem:

Action Taken: Replaced battery and desiccant. TB OK. RF OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4030

Service Log

Site Name:Red Garden RainDate:06-Aug-13Time:10:17Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
4030 10:24 194 0

4030 10:24 194 0 4030 10:24 195 0 4030 10:24 195 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Martin Gulch Date: 28-Oct-13 Time: 11:20
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location
BY R 1122 4040

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4040

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 876
 5.01
 56.3
 2.4
 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1030 13.20

Test Transmission						
Port	Time	Count	Measure	Predicted		
4040	11:24	0		0		
4040	11:33	1		0		
4040	11:33	1		0		
4040	11:33	2		0		
4040	11:33	2		0		

Problem:

Action Taken: TXR tested with IFR field procedures. TXR is within specs. TXR OK vswr = 1.24. RF OK TB was

cleaned. TB OK Battery and desiccant were replaced. Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4040

Service Log

Site Name: Martin Gulch Date: 06-Aug-13 Time: 12:26
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4040
 12:27
 330
 0

 4040
 12:28
 331
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

Site Notes: Once on dirt escape route continue on road until you come to a gate/a sign that says walker

ranch boundary. Rain gage is just beyond the gate.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4050

Site ID:

Service Log

Site Name:Walker RanchDate:01-Aug-13Time:15:25Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 4050 15:28 171 0 15:28 171 0 4050 4050 15:28 172 0 15:28 172 0 4050

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Walker Ranch Date: 28-Oct-13 Time: 11:54
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0511
 4050

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4050

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 876
 5.00
 133.2
 2.4
 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1117 13.31

Test Transmission

Port Time Count Measure Predicted 4050 12:13 0 1 12:13 0 4050 1 4050 12:13 2 0 12:13 4050 30 0

Problem:

Action Taken: Tested TXR with IFR field procedures. TXR is within specs. TXR OK vswr = 1.40. RF OK Tb was

clean and clear on arrival. TB OK Battery and desiccant were replaced. Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4060

Service Log

Site Name:LakeshoreDate:01-Aug-13Time:14:51Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

 4060
 15:04
 233
 0

 4060
 15:04
 234
 0

 4060
 15:04
 236
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received three tips. TB OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4060

Service Log

Site Name: Lakeshore Date: 28-Oct-13 Time: 12:26
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1004
 4060

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4060

12:48

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 975
 5.00
 63.4
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 0230 13.37

 Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4060
 12:44
 1
 0

 4060
 12:47
 2
 0

3

Problem:

Action Taken: Battery and desiccant were replaced. TXR was tested with IFR. TXR is within specs. TXR OK.

vwsr = 1.00

RF OK TB was clean and clear on arrival. TB OK Site OK

Site Notes:

Follow-Up:

0

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4070

Service Log

Site Name: Bear Peak Date: 28-Oct-13 Time: 10:25
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0813
 4070

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 07

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 20.0

 Rev Power:
 0.0

 SWR:
 1.07

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0805 13.37

Test Transmission						
Port	Time	Count	Measure	Predicted		
4070	10:36	679		0		
4070	10:39	680		0		
4070	10:39	680		0		
4070	10:46	682		0		

Problem:

Action Taken: TX tested with watt meter. TX OK TB clean and clear on arrival. TB OK Replaced battery and

desiccant. Solar OK Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Bear PeakDate:06-Aug-13Time:13:13Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4070

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4080

Service Log

Site Name: Twin Sisters Date: 07-Aug-13 Time: 11:18
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4080 11:23 189 0

4080 11:23 190 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4080

Service Log

Site Name: Twin Sisters Date: 01-Apr-13 Time: 11:22
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4080-00E

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 30.0

 Rev Power:
 8.0

 SWR:
 3.14

Battery Tests

Battery # V Quiescent V Load

Port Time Count Measure Predicted
4080 11:27 44 0

 4080
 11:27
 44
 0

 4080
 11:37
 1
 0

 4080
 11:38
 2
 0

Problem:

Action Taken: TB OK RF OK Solar OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Twin Sisters Date: 16-Oct-13 Time: 11:03
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1022
 4080

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4080

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 876
 5.00
 53
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:

Battery Tests

Rev Power: SWR:

Battery # V Quiescent V Load

BY R 0901 13.18

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4080
 11:37
 1
 0

 4080
 11:37
 2
 0

Problem:

Action Taken: Replaced battery and desiccant. TX tested with IFR. TX within specs. TX OK TB clean and clear

on arrival. TB OK Solar OK Site OK

### MAINTENANCE RECORD SI URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4090

Service Log

Site Name: Magnolia Date: 16-Oct-13 Time: 10:09
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1138
 4090

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 875
 5.07
 102
 2.2
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1228 13.13

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TX tested using IFR procedure. TX falls into specs. TX OK Solar is believed to be bad. Replaced

battery and desiccant. TB clean and clear on arrival. TB OK Site OK

Site Notes:

Follow-Up: Replace solar panel

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Magnolia Date: 07-Aug-13 Time: 10:24
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1228
 4090

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4090

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1037 13.02

rest rrai	nsmission			
Port	Time	Count	Measure	Predicted
4090	10:31	0		0
4090	10:43	1		0
4090	10:43	5		0
4090	10:46	6		0
4090	10:46	7		0
4090	10:59	8		0
4090	10:59	9		0

Problem:

Action Taken: Replaced battery. Solar was disconnected. Re-connected solar. Putting out low voltage. 0.14

volts. Cloudy day. TB was tipped nine times during service. Site OK TB OK

**Site Notes:** Should consider replacing stand pipe. Nuts are all gone, pretty beat up and dented.

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4090

Service Log

Site Name: Magnolia Date: 01-Apr-13 Time: 10:45
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 09

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

Battery Tests

Battery # V Quiescent V Load

Port Time Count Measure Predicted
4090 11:01 68 0

 4090
 11:01
 68
 0

 4090
 11:04
 69
 0

 4090
 11:04
 70
 0

Problem:

Action Taken: Power OK TB OK RF OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

4100

Service Log

Site Name: Filter Plant Date: 07-Aug-13 Time: 14:57
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0336
 4100

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq: Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1109 12.96

**Test Transmission**Port Time Count

Measure Predicted 4100 15:02 0 0 4100 15:02 0 0 4100 15:05 0 1 15:05 2 0 4100

Problem:

Action Taken: Replaced battery. Cleaned TB, some debris on screen. TB received two tips. TB OK Site OK

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Service Log

Site Name: **Filter Plant** Date: Time: 13:35 29-Oct-13 Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location BY R 0339 4100

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4100

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt **TX J 218** 5.01 269 2.2 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

**BY R 0336** 13.35

Test Transmission								
Port	Time	Count	Measure	Predicted				
4100	13:44	1		0				
4100	13:44	3		0				
4100	13:48	5		0				
4100	13:48	6		0				

Problem:

Action Taken: changed out battery and desiccant. Tested TXR with IFR. All IFR measurements are within spec.

TXR OK. vwsr = 1.76. RF OK. TB clean and clearon arrival. TB OK. Site OK.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:BetassoDate:07-Aug-13Time:14:28Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1134
 4110

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4110

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1134 13.10

Test Transmission							
Port	Time	Count	Measure	Predicted			
4110	14:34	0		0			
4110	14:34	0		0			
4110	14:37	1		0			
4110	14:38	5		0			
4110	14:39	6		0			
4110	14:39	7		0			

Problem:

Action Taken: Battery changed out. TB tipped. TB OK Site OK

Site Notes: Top section of TB is hard to get on and move around. Should consider replacing it.

Follow-Up:

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 4110

Service Log

Site Name: Date: Time: 15:17 **Betasso** 16-Oct-13 Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location BY R 1305 4110

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt **TX J 218** 5.00 52 2.2 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load BY R 1134 12.79 12.98

Test Transmission Port Time Count Measure Predicted 4110 15:28 0 0 4110 15:34 2 0 4110 15:36 3 0 15:37 4110 4 0

Problem:

Action Taken: Replaced battery and desiccant. Tested TXR with IRR field procedures. TXR is within limits. TXR OK TB clean and clear on arrival. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4130

Site ID:

Service Log

Site Name: Swiss Peaks Date: 16-Oct-13 Time: 13:28
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1314
 4130

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 4130

Jumpers: JB5 off,JB7 on

Eprom: **585B**Tx Freq: **169.500** 

Rx Freq:

 Fwd Power:
 3.8

 Rev Power:
 0.1

 SWR:
 1.39

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0422 12.96

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4130
 13:52
 1
 0

 4130
 13:52
 2
 0

Problem:

Action Taken: Replaced battery and desiccant. Tested TX with watt meter. RF power little low. Good SNR. TX

OK TB clean and clear on arrival. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4130

Service Log

Site Name: Swiss Peaks Date: 07-Aug-13 Time: 13:15
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4130 13:21 291 0

4130 13:21 292 0

Problem:

Action Taken: TB clear and clean on arrival. TB received two tips. TB OK Site OK

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID:

4140

Service Log

Site Name: Date: Time: 13:53 Logan Mill 07-Aug-13 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Measure Predicted Port Time Count 4140 13:54 279 0

4140 13:55 280 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Logan Mill Date: 15-Oct-13 Time: 13:45
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1201
 4140

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4140

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 975
 5.00
 264
 2.4
 0.00

Settings and Performance

Switches: **4140-00E** 

Jumpers: C:J5 off; L:J7,11 on

Eprom: R 1.8 57FE Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1201 13.15

Test Transmission

ONERAIN INCORPORATED

 Port
 Time
 Count
 Measure
 Predicted

 4140
 14:06
 1
 0

 4140
 14:06
 2
 0

Problem:

Action Taken: TX passed maintenance procedure. Battery and desiccant replaced. Solar good. TB clean and

clear.TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Gold Hill Date: 07-May-13 Time: 13:23
Service Type: Start Up Technician: NK/ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1127
 4150

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4150

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

BY R 1102 13.03

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4150
 13:30
 1
 0

 4784
 13:31
 6
 0

Problem:

Action Taken: changed battery and descant. tested RF locally, RF ok, TB ok, vwsr 1.04. didn't have watt meter

in truck.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4150

Service Log

Site Name: Gold Hill Date: 23-Jul-13 Time: 14:58
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4150 14:59 186 0

4150 14:59 187 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OKSite OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Gold Hill Date: 15-Oct-13 Time: 12:47
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1247
 4150

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4150

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 976
 4.99
 234
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1127 13.08

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4150
 13:04
 1
 0

 4150
 13:04
 2
 0

Problem:

Action Taken: changed out battery and desiccant. Ran TX through maintenance procedure on IFR. TX passed.

TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4150

Service Log

Site Name: Gold Hill Date: 04-Oct-13 Time: 12:54
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1116
 4150

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

TX J 976 5.00 215 2.25

Settings and Performance

Switches: 15

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 14.0

 Rev Power:
 0.1

 SWR:
 1.18

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1116 13.11

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4150
 13:15
 1
 0

 4150
 13:15
 2
 0

Problem:

Action Taken: Tested TXR on IFR. TXR OK Replaced battery. RF OK TB ok

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4160

Service Log

Site Name:SunshineDate:31-Jul-13Time:15:18Service Type:InspectionTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4160 15:22 145 0

4160 15:22 146 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Sunshine Date: 07-May-13 Time: 11:43
Service Type: Start Up Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location BY R 1106 4160 Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4160

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1106 13.17

Test Transmission

Port Time Count Measure Predicted

4160 12:06 1 0

Problem:

Action Taken: battery and desiccant changed. RF tested locally, RF ok, TB ok, vswr 1.04, didn't have watt

meter in truck.

Site Notes: Follow-Up:

18-Dec-13

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4160

Service Log

Site Name:SunshineDate:23-Jul-13Time:14:04Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4160 14:10 122 0

4160 14:10 122 0 4160 14:11 123 0

Problem:

Action Taken: TB clean and clear. TB received two tips. TB ok, Site ok

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4160

Site ID:

Service Log

Site Name: Sunshine Date: 04-Oct-13 Time: 13:37
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0631
 4160

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 876
 5.01
 300
 2.25
 0.00

Settings and Performance

Switches: 4160

Jumpers: Eprom:

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0631 13.01

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4160
 14:07
 1
 0

 4160
 14:07
 2
 0

Problem:

Action Taken: Tested TXR on IFR. TXR OK Replaced battery. RF OK TB ok

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4170

Site ID:

Service Log

Site Name: Pinebrook Date: 15-Oct-13 Time: 10:42
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location
TX J 23967 4170
BY R 1225 4170

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX J 217 343 2.6 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1319 13.06

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4170
 11:49
 1
 0

 4170
 11:50
 2
 0

Problem:

Action Taken: TX J 2177 didn't pass Freq error, or deviation. Freq error = 343. deviation = 2.6. Changed out

TX. Changed out battery and desiccant. New TX is a spare and was tested at shop. TB clean

and clear. TB OK Site OK

Site Notes: Cant drive road to turn around spot anymore. Rock slide, boulders to large to move. Have to hike

up to site. Can either park at little house or back down road.

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4170

0

Site ID:

Service Log

Site Name:PinebrookDate:07-May-13Time:10:21Service Type:Start UpTechnician:NK/ZCStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1319
 4170

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4170

10:37

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq:
Rx Freq:
Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1319 12.94

 Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4170
 10:34
 1
 0

 4170
 10:37
 2
 0

3

Problem:

Action Taken: Battery and desiccant changed. RF tested locally, TB ok, RF OK VWSR 1.63.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:PinebrookDate:23-Jul-13Time:13:10Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4170

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4170 13:13 49 0

4170 13:13 49 0 4170 13:14 50 0

Problem:

Action Taken: TB clean and clear. TB received two tips. TB OK site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4180

Service Log

Site Name:Gold LakeDate:15-Aug-13Time:13:01Service Type:InspectionTechnician:NK/ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Port
 Time
 Count
 Measure
 Predicted

 4180
 13:03
 336
 0

 4180
 13:03
 336
 0

 4180
 13:03
 336
 0

 4180
 13:03
 337
 0

 4180
 13:03
 337
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Gold Lake Date: 20-Nov-13 Time: 11:43
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0416
 4180

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4180

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 273
 4.99
 50
 2.5
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 4180 12:00 1 0 4180 12:01 2 0 4180 12:02 3 0

Problem:

Action Taken: Tested TXR on IFR. TXR OK. Replaced battery. RF OK. TB OK. Solar OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4190

Service Log

Site Name: Slaughterhouse Date: 07-Nov-13 Time: 14:28
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1130
 4190

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 0F19

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 20.0

 Rev Power:
 0.1

 SWR:
 1.15

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1130 13.21

Port Time Count Measure Predicted
4190 14:40 1 0

4190 14:40 1 0 4190 14:41 2 0 4190 14:41 4 0

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with watt meter. TXR OK. Solar OK, low sun. TB

clean and clear on arrival. TB OK. Site OK.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4190

Service Log

Site Name: Slaughterhouse Date: 23-Jul-13 Time: 11:39
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4190 11:42 258 0

4190 11:42 259 0

Problem:

Action Taken: TB clean and clear. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4190

Service Log

Site Name: Slaughterhouse Date: 08-Apr-13 Time: 13:23
Service Type: Start Up Technician: MZ/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1316
 4190

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1316 13.00

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Start Up. TB OK, RF OK. SWR=1.28. Changed Battery and Desiccant.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4200

Service Log

Site Name: Lazy Acres Date: 08-Apr-13 Time: 11:57
Service Type: Start Up Technician: MZ/NK Status: OK

**Configuration Changes** 

Part # Location
TX J 2808 4200
BY R 1306 4200

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1306 13.01

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Spring Start Up. Replaced TXR due to radio power issues, battery, desiccant. RF OK, TB OK.

SWR = 1.37

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4200

Service Log

Site Name: Lazy Acres Date: 23-Jul-13 Time: 12:22
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4752

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 4200 12:24 143 0 4200 12:24 144 0 4200 12:24 145 0

160

12:25

Problem:

Action Taken: TB clear and clean. TB received three tips. TB OK Site OK

Site Notes: Follow-Up:

0

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4210

Service Log

Site Name: Lee Hill Repeater Date: 08-Apr-13 Time: 10:42
Service Type: OneRain Service Ca Technician: MZ/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 RP N 2071
 4210

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced 50386 Repeater due to intermittent functionality.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4210

Site ID:

Service Log

Site Name: Lee Hill Repeater Date: 03-Apr-13 Time: 12:00
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1213
 4210

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: LeeHill Translate

 Tx Freq:
 171.875

 Rx Freq:
 169.500

 Fwd Power:
 15.0

 Rev Power:
 1.0

 SWR:
 1.7

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: AEA on receive antenna 1.53 VSRW. Poweramp output is 15 watts. Found significant

condensation inside repeater canister. Swapped receive radio. Same intermittent response.

Need to bring spare repeater.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4210

Service Log

Site Name: Lee Hill Repeater Date: 02-Apr-13 Time: 11:17
Service Type: OneRain Service Ca Technician: SB/MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: 169.525 cavity filter was placed on the intake side of the splitter. Moved cavity filter to side 2

(ALERT2). Most likely a mistake made when ALERT2 was installed.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4220

Service Log

Site Name: Flings Date: 04-Oct-13 Time: 11:44
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

Part # Location **BY R 0404 4220** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 875
 5.01
 150
 2.25
 0.00

Settings and Performance

Switches: 0A22

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 18.0

 Rev Power:
 0.2

 SWR:
 1.24

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0404 13.16

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4220
 12:02
 1
 0

 4220
 12:03
 2
 0

Problem:

Action Taken: Tested TXR on IFR. TXR OK Replaced battery. RF OK TB ok

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4220

0

Service Log

Site Name:FlingsDate:15-Aug-13Time:12:26Service Type:InspectionTechnician:NK/ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4220 12:27 326 0

4220 12:28 327

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Flings Date: 29-Mar-13 Time: 13:11
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1301
 4220

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4220

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1301 12.65

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Start Up. RF OK, TB OK, Solar OK. Replaced battery and desiccant.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

4230

Site ID:

Service Log

Site Name: Date: Time: 14:08 Golden Age 08-Apr-13 Technician: MZ/NK Service Type: Start Up Status: OK

**Configuration Changes** 

Part # Location BY R 1315 4230

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1315 12.93 Test Transmission

Count Port Time Measure Predicted 4230 14:18 3

0

Problem:

Action Taken: Spring start up. TB OK TX OK Solar OK Changed battery and desiccant. SWR 1.18.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4230

Service Log

Site Name:Golden AgeDate:07-Nov-13Time:12:01Service Type:End of SeasonTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location **BY R 1040 4230** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX J 185 102 2.4 0.00

Settings and Performance

Switches: **4230-00E** 

Jumpers:

Eprom: R1.8 57FE Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1315 13.12

Test Transmission Port Time Count Measure Predicted 4230 12:05 0 0 4230 12:05 0 0 4230 12:12 0 1

Problem:

Action Taken: Replaced battery and desiccant. Tested TXR with IFR field procedures. TXR is with in specs.

TXR OK. Solar OK. TB clean and clear on arrival. TB OK. Site OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4230

Site ID:

Service Log

Site Name:Golden AgeDate:31-Jul-13Time:13:20Service Type:InspectionTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4230 13:21 128 0

4230 13:21 126 0 4230 13:21 129 0

Problem:

Action Taken: TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4240

Service Log

Site Name: Sunset Date: 23-Jul-13 Time: 14:39
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4240 14:41 153 0

4240 14:41 153 0 4240 14:41 154 0

Problem:

Action Taken: TB clean and clear. TB received two tips. TB OK Site OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4240

Service Log

Site Name: Sunset Date: 07-May-13 Time: 12:51
Service Type: Start Up Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location **BY R 1225 4240** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:

Rx Freq:
Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1201 12.91

Test Transmission Port Time Count Measure Predicted 4240 12:57 0 0 4240 12:57 0 1 4240 13:01 2 0 4240 13:01 3 0 4240 13:02 4 0

Problem:

Action Taken: battery and desiccant changed. rf tested locally, rf ok, tb ok, vswr 1.51. didn't have watt meter in

truck.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4240

Site ID:

Service Log

Site Name: Sunset Date: 04-Oct-13 Time: 10:55
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

Part # Location **BY R 1202 4240** 

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX J 976 5.00 50 2

Settings and Performance

Switches: **4240-00E** 

Jumpers: C:J5 off L:J7,11

Eprom: R 1.8 57FE

*Tx Freq:* **169.500** 

Rx Freq:

Fwd Power: 18.0
Rev Power: 0.1

SWR: 1.16

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1202 13.02

Test Transmission

Port Time Count Measure Predicted

4240 11:12 1 0 4240 11:12 2 0

Problem:

Action Taken: Tested TXR on IFR. TXR OK Replaced battery. RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Geer CanyonDate:24-Jul-13Time:10:38Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4250

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

4250 10:42 230 0

Problem:

Action Taken: TB clean and clear. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4250

Service Log

Site Name: Geer Canyon Date: 14-Jun-13 Time: 13:49
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 4250 13:53 201 0 4250 13:53 201 0 4250 13:53 202 0 13:53 202 0 4250

Problem:

Action Taken: TB tipped twice. TB clean, TB OK site OK heard TX locally.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4260

Site ID:

Service Log

Site Name: Taylor Mountain Date: 29-Mar-13 Time: 12:40
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0511
 4260

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0511 13.31

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Start Up. RF OK, TB OK, Solar OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4260

Service Log

Site Name: Taylor Mountain Date: 02-Aug-13 Time: 11:17
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4260 11:18 297 0

4260 11:18 298 0

Problem:

Action Taken: TB tested OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4260

Service Log

Site Name: Taylor Mountain Date: 11-Oct-13 Time: 12:59
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1139
 4260

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 152
 5.01
 50
 2.25
 0.00

Settings and Performance

 Switches:
 4260-00E

 Jumpers:
 C: J5 off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 15.0

 Rev Power:
 0.1

 SWR:
 1.18

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1139 13.35

**Test Transmission**Port Time Count Me

 Port
 Time
 Count
 Measure
 Predicted

 4260
 13:17
 1
 0

 4260
 13:19
 2
 0

 4260
 13:19
 3
 0

Problem:

Action Taken: Tested TXR on IFR. TXR and radio OK. TB OK Solar Ok. Replaced battery.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4270

Service Log

Site Name: Cannon Mountain Date: 12-Aug-13 Time: 11:58
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4270

Service Log

Site Name: Cannon Mountain Date: 30-Oct-13 Time: 12:44
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1134
 4270

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 152
 5.01
 63.2
 2.4
 0.00

Settings and Performance

Switches: .8

Jumpers:

Eprom: R1.8 9CA1 Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1015 13.17

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: changed battery and desiccant. Tested TXR with IFR. All IFR measurements are within spec.

TXR OK. vswr = 1.00. RF OK. TB clean and clear on arrival. TB OK. Solar OK. Site OK.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4290

Service Log

Site Name:Red HillDate:24-Jul-13Time:11:44Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq: Fwd Power:

Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4300

Service Log

Site Name:Big Elk ParkDate:02-Aug-13Time:12:29Service Type:InspectionTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq: Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival TB received two tips. TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Big Elk Park Date: 30-Oct-13 Time: 11:12
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1228
 4300

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4300

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: **0F30**Jumpers:

Eprom:

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 30.0

 Rev Power:
 0.0

 SWR:
 1.05

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1256 12.95

Test Tra	nsmission			
Port	Time	Count	Measure	Predicted
4300	11:30	712		0
4300	11:30	712		0
4300	11:30	712		0
4300	11:30	712		0
4300	11:30	712		0
4300	11:30	712		0
4300	11:30	712		0
4300	11:36	713		0
4300	11:36	713		0
4300	11:37	714		0
4300	11:37	714		0
4300	11:38	715		0

Problem:

Action Taken: changed battery and desiccant. Tested TXR with watt meter. TXR OK. RF OK. TB clean and

clear on arrival. TB OK. Site OK.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4310

Service Log

Site Name: Johnny Park Date: 15-Aug-13 Time: 10:06
Service Type: Inspection Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4310

10:08

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Measure	Predicted			
4310	10:07	325		0			
4310	10:07	325		0			
4310	10:08	326		0			

326

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK

Site Notes: Follow-Up:

0

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

4320

Service Log

Site Name: Date: Time: 11:18 Lee Hill Rain 02-Apr-13 Technician: SB/MZ Service Type: Start Up Status: OK

**Configuration Changes** 

Part # Location BY R 1003 4320

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: 4.0 Rev Power: 0.1 1.38 SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1003 13.21 Test Transmission

Count Port Time Measure Predicted

4320 11:26 8 0

Problem:

Action Taken: Replaced battery and desiccant. RF OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Lee Hill RainDate:31-Jul-13Time:14:38Service Type:InspectionTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4320

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4320 14:39 201 0

4320 14:39 201 0 4320 14:39 202 0

Problem:

Action Taken: TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4330

Service Log

Site Name:HansenDate:24-Jul-13Time:11:13Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4330-00E

 Jumpers:
 C: J5 off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4330
 11:15
 244
 0

 4330
 11:15
 245
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4330

Site ID:

Service Log

Site Name:HansenDate:14-Jun-13Time:13:01Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4330-00E

 Jumpers:
 C: J5 off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB was tipped twice. TB OK TB clean. Heard TX locally. Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4340

Site ID:

Service Log

Site Name:RiversideDate:02-Aug-13Time:10:47Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4340 10:47 256 0

4340 10:48 257 0

Problem:

Action Taken: TB Tested OK.

Site Notes: Turn left at first Y. Go up switch backs past nice cabin to 2nd gate. Pass old cabin and go up

hard 4x4 road. Gauge is at roads end.

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:RiversideDate:20-Nov-13Time:12:45Service Type:End of SeasonTechnician:ZCStatus:OK

**Configuration Changes** 

Part # Location BY R 0946 4340 Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4340

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 101
 4.99
 320
 2.5
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Texted TXR on IFR. TXR OK. Replaced battery. RF OK. TB OK. Solar OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4350

Service Log

Site Name: Conifer Hill Date: 13-Jun-13 Time: 12:13
Service Type: OneRain Service Ca Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 0935

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 12.0

 Rev Power:
 0.1

 SWR:
 1.2

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1020 12.98

Test Transmission							
Port	Time	Count	Measure	Predicted			
4350	12:50	2		0			
4350	12:50	2		0			
4350	12:51	4		0			
4350	12:51	5		0			
4350	12:51	5		0			

**Problem:** Site down. Not Transmitting

Action Taken: On arrival battery cables were loose. Cables were tightened and test TX button was pressed. Still

not TX. Battery V 13.04. Decided to installed new battery. TX OK. Solar OK. TB OK. Old battery

appears to not have enough current to TX data. Site Ok. Heard transmissions locally.

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Conifer Hill Date: 20-Nov-13 Time: 14:10
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1256
 4350

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4350

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 101
 4.99
 50
 2.25
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4350
 14:22
 1
 0

 4350
 14:22
 2
 0

Problem:

Action Taken: Tested TXR on IFR. TXR OK. Replaced battery. RF OK. TB OK. Solar OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4350

Site ID:

Service Log

Site Name: Conifer Hill Date: 29-Mar-13 Time: 11:38
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1020
 4350

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1020 13.20

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Start Up. RF OK, TB OK. Changed battery and desiccant

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4350

0

Service Log

Site Name: Conifer Hill Date: 02-Aug-13 Time: 10:00
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

10:01

4350

Port Time Count Measure Predicted 4350 10:01 91 0

92

Problem:

Action Taken: TB tested OK.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Service Log

Site Name: Date: Time: 13:51 **Justice Center** 08-Oct-13 Service Type: End of Season Technician: SB Status: OK

**Configuration Changes** 

Part # Location BY R 1009 4360

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4360

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt TX J 152 5.00 215 2.2 0.00

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Bench tested TXR. TXR OK. RF OK. TB OK. Replaced battery and desiccant.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4360

Site ID:

Service Log

Site Name:Justice CenterDate:22-Jan-13Time:11:21Service Type:InstallationTechnician:PB/SBStatus:OK

**Configuration Changes** 

Part # Location
TB J 24776 4360
BY R 1139 4360

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 .01

 Jumpers:
 14.2

 Eprom:
 32

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1139 13.04

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed new site outside justice center. Moved existing txr, installed new TB, solar.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4360

Service Log

Site Name: Justice Center Date: 07-Aug-13 Time: 10:04
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4360 10:05 249 0

4360 10:05 249 0 4360 10:05 251 0

Problem:

Action Taken: TB clean and clear on arrival. TB received three tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4370

Service Log

Site Name: Gross Date: 20-Jun-13 Time: 10:28
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4373
 10:50
 1506
 7.25 psi
 1511

 4373
 10:51
 370
 1.77 psi
 371

Problem:

Action Taken: Two point PT test passed. PT OK site OK TX came through locally.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4370

Site ID:

Service Log

Site Name: Gross Date: 19-Feb-13 Time: 14:35
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1111
 4370

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4370-

Jumpers: C:JB6,2-3,JB3,4,5 off;L:J

 Eprom:
 585B

 Tx Freq:
 169.500

 Rx Freq:
 171.875

 Fwd Power:
 4.0

Rev Power: **0.1** SWR: **1.38** 

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1111 12.90

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4373
 14:50
 1081
 5.16 psi
 1077

 4373
 14:51
 439
 2.09 psi
 438

Problem:

Action Taken: Replaced battery and desiccant. RF OK AC power OK. Tested PT, PT within acceptable range.

USGS gauge reading 1.07ft. PT reading 1.06ft.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4370

Service Log

Site Name: Gross Date: 29-Oct-13 Time: 10:15
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0413
 4370

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 268
 4.99
 289
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1111 13.37

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4373
 10:33
 1524
 7.30 psi
 1520

 4373
 10:34
 318
 1.51 psi
 317

Problem:

Action Taken: Changed out battery and desiccant. Tested TXR with IFR. All TXR measurements are within

spec. TXR OK vswr = 1.16. RF OK Two point PT test passed. PT OK Current PT cal good. Site

OK

Site Notes:

Follow-Up:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4370

Service Log

Site Name: Gross Date: 22-Aug-13 Time: 13:42
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4373
 13:47
 1284
 6.17 psi
 1287

 4373
 13:48
 284
 1.35 psi
 285

Problem:

Action Taken: Two point PT test passed. Current PT cal good. PT OK Site OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4380

Service Log

Site Name: Eldorado Spring Date: 19-Feb-13 Time: 11:02
Service Type: Start Up Technician: ZC/SB Status: OK

**Configuration Changes** 

Part # Location
TX J 32078 4380
BY R 0616 4380

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: **4380-E00** 

Jumpers: C:JB6 2-3,JB3,4,5 off;L:J

 Eprom:
 57EE

 Tx Freq:
 169.500

 Rx Freq:
 171.875

 Fwd Power:
 4.0

 Rev Power:
 0.1

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

1.38

BY R 0616 13.40

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery and desiccant. Solar OK. RF OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4380

Site ID:

Service Log

Site Name: Eldorado Spring Date: 20-Jun-13 Time: 16:21
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed 4015 signal converter. This unit will sniff the SDI-12 and convert it to a 0-5 volt output.

Sensor address (sniff) is 0 parameter is 0. 4015 address is H.

0-10 feet range.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4380

Service Log

Site Name:Eldorado SpringDate:18-Nov-13Time:11:06Service Type:End of SeasonTechnician:SBStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 0810
 4380

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part #Ref VFreq ErrDeviationROM BattTX J 320802.10.00

Settings and Performance

*Switches:* **4380-E00** 

Jumpers: C:JB6 2-3,JB3,4,5 off;L:J

 Eprom:
 57EE

 Tx Freq:
 169.500

 Rx Freq:
 171.875

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0810 12.99

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery and desiccant. Benched TXR. Site OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4390

Service Log

Site Name: Boulder Falls Date: 22-Aug-13 Time: 12:42
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4393
 12:45
 1305
 6.20 psi
 1302

 4393
 12:46
 278
 1.31 psi
 277

Problem:

Action Taken: Two point PT test passed. Current PT cal good. PT OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Boulder Falls Date: 18-Jun-13 Time: 11:56
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4390

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4393
 12:10
 1647
 7.83 psi
 1644

 4393
 12:11
 303
 1.45 psi
 307

Problem:

Action Taken: Two point PT test passed. PT OK Site OK TX came in locally.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4390

Service Log

Site Name: Boulder Falls Date: 29-Apr-13 Time: 14:39
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location PT D 3533098 4390 Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4393 0.011 -0.0207 0.0053

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

lest Iransmission							
Port	Time	Count	Meas	sure	Predicted		
4393	15:43	1870	8.89	psi	1798		
4393	15:44	1480	7.04	psi	1422		
4393	15:44	967	4.60	psi	928		
4393	15:45	671	3.19	psi	643		
4393	15:45	160	0.75	psi	150		
4393	15:46	1023	4.87	psi	1022		

**Problem:** Bad PT

Action Taken: Installed new PT, PT calibrated. Did not need 130 ft for PT 100 ft would work.

{Auto Entry: Calibrated sensor 4393 by linear regression. Modified calibration data. New calibration [Slope(0.0110), Calibration Offset(-0.0207), Std Error(0.0053), Calibration

Date(4/29/2013 3:45:40 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

4390

Service Log

Site Name: Boulder Falls Date: 26-Apr-13 Time: 10:09

Service Type: OneRain Service Ca Technician: SB Status: PT Down

**Configuration Changes** 

 Part #
 Location

 BY R 1314
 4390

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:

Rev Power: SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Site not TXR

Action Taken: PT unresponsive. Needs replaced. VSWR = 1.2. Radio Good. Battery good.

Site Notes:

Follow-Up: Replace PT.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4390

Service Log

Site Name: Boulder Falls Date: 26-Mar-13 Time: 10:36
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 12094 4390
BY R 1131 4390

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1131 13.05

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4393
 10:49
 1091
 5.32 psi
 1074

 4393
 10:50
 428
 2.09 psi
 421

Problem:

Action Taken: Start Up. RF OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Boulder Falls Date: 08-Oct-13 Time: 11:50

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4390

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4393
 11:54
 961
 4.56 psi
 959

 4393
 11:55
 381
 1.80 psi
 379

Problem:

Action Taken: Removed TXR, Battery, and Desiccant. Pulled PT up for winter. PT tested within acceptable

limits.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

ONEIG

Service Log

Site Name: Orodell Date: 18-Jun-13 Time: 12:23
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1205
 4400

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4400

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1038 13.03

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4403
 12:33
 1341
 6.65 psi
 1349

 4403
 12:34
 250
 1.24 psi
 255

Problem:

Action Taken: Two point PT test passed. PT OK Changed out battery. Batt Ok. Site OK TX came through

locally.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4400

Service Log

Site Name: Orodell Date: 01-Apr-13 Time: 10:19
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4400-00E

Jumpers: C:J6,2-3 L:J8,1-2;J9,10,2-

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4403
 10:25
 1018
 5.00 psi
 1017

 4403
 10:26
 439
 2.17 psi
 443

Problem:

Action Taken: PT tested within acceptable range. RF OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4400

Service Log

Site Name: Orodell Date: 08-Oct-13 Time: 12:23

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4403
 12:26
 940
 4.65 psi
 945

 4403
 12:27
 435
 2.15 psi
 440

Problem:

Action Taken: Removed TXR, Battery, and Desiccant for the season. Pulled up PT. PT tested within

acceptable range.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4400

Service Log

Site Name:OrodellDate:22-Aug-13Time:10:32Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4403
 10:37
 1237
 6.13 psi
 1245

 4403
 10:38
 228
 1.12 psi
 232

Problem:

Action Taken: Two point PT test passed. Current PT cal good. PT OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4410

Service Log

Site Name:FourmileDate:16-Aug-13Time:12:17Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1007
 4410

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1252 12.90

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4413
 12:26
 1279
 6.14 psi
 1281

 4413
 12:27
 256
 1.22 psi
 259

Problem:

Action Taken: changed battery. Two point PT test passed. PT OK Site OK

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

Service Log

Site Name: **Fourmile** Date: 03-Apr-13 Time: 14:25 Technician: SB Service Type: OneRain Service Ca Status: OK

**Configuration Changes** 

Part # Location BY R 1252 4410

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4413 0.011 -0.065 0.0231

Site ID:

4410

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission Port Time Count Measure Predicted 4413 14:47 1957 9.42 psi 1897 4413 14:48 1454 1412 7.00 psi 4413 14:49 1049 1020 5.05 psi 14:50 610 4413 633 3.00 psi

219

1.04 psi

217

Problem:

Action Taken: Replaced signal conditioning module. Calibrated PT.

{Auto Entry: Calibrated sensor 4413 by linear regression. Modified calibration data. New calibration [Slope(0.0111), Calibration Offset(-0.0650), Std Error(0.0231), Calibration

4413

14:51

Date(4/3/2013 2:51:57 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4410

Service Log

Site Name:FourmileDate:18-Jun-13Time:10:43Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4413
 10:50
 1353
 6.50 psi
 1356

 4413
 10:51
 234
 1.12 psi
 238

. . . . .

Problem:

Action Taken: Two point PT test passed. PT calibration OK PT OK Site OK TX came through locally.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Fourmile Date: 02-Apr-13 Time: 17:02
Service Type: OneRain Service Ca Technician: SB/MZ Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4410

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Over reporting

Action Taken: Site started to over report. PT tested fine. Changed TXR and problem persisted. Heavy snow

limited troubleshooting. Suspect bad signal conditioning board.

Site Notes:

Follow-Up: Bring Signal Conditioning.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Fourmile Date: 08-Oct-13 Time: 13:14

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4410

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4413
 13:20
 1056
 5.03 psi
 1052

 4413
 13:21
 483
 2.28 psi
 480

**Problem:** Bad PT readings

Action Taken: Found riser completely full of sand. PT stuck at bottom. Pumped water from stream into riser

releasing PT. PT tested OK. The stream channel has changed. The intake has been torn off and is about 2 feet above where the water level is. New conduit, riser, and intake will need to be

installed.

Site Notes:

Follow-Up: Replace Riser, Intake,.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Time: 12:15 **Fourmile** Date: 02-Apr-13 Service Type: OneRain Service Ca Technician: SB/MZ Status: OK

**Configuration Changes** 

Part # Location TX J 2182 4410 PT D 3574322 4410 BY R 1027 4410

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4413 0.012 -0.091 0.038

Site ID:

4410

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 4410-00E

Jumpers: L:JB8,1-2;JB9,10,2-3,JB7

Eprom: 585B Tx Freq: 169.500 Rx Freq: 171.875 Fwd Power: 4.2 Rev Power: 0.1 1.36

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1027 13.05

Test Transmission							
Port	Time	Count	Meas	sure	Predicted		
4413	12:35	1855	9.22	psi	1933		
4413	12:35	1435	7.05	psi	1492		
4413	12:36	969	4.75	psi	1023		
4413	12:36	533	2.62	psi	587		
4413	12:36	248	1.21	psi	299		
4413	12:37	1015	4.98	psi	1006		
4413	12:37	313	1.53	psi	314		

PT Dead Problem:

Action Taken: Installed new PT (75 ft). Installed TXR, Battery, and desiccant. Flushed intake. RF OK. PT

OK.

{Auto Entry: Calibrated sensor 4413 by linear regression. Modified calibration data. New calibration [Slope(0.0115), Calibration Offset(-0.0910), Std Error(0.0380), Calibration

Date(4/2/2013 12:36:50 PM)]}.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4420

Service Log

Site Name:BridgeDate:26-Aug-13Time:13:26Service Type:OneRain Service CaTechnician:SBStatus:OK

**Configuration Changes** 

Part # Location
TX J 19661 4420
BY R 0511 4420

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Site has not reported in 4 days

Action Taken: Replaced transmitter. Heard site locally. RF OK. PT OK.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

Site ID: 4420

Service Log

Site Name: Time: 12:43 **Bridge** Date: 18-Jun-13 Service Type: Technician: NK Status: OK Inspection

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4423 0.012 -0.0168 0.0049

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Meas	sure	Predicted		
4423	12:49	1852	9.21	psi	1899		
4423	12:50	1435	7.14	psi	1471		
4423	12:51	951	4.72	psi	974		
4423	12:52	588	2.92	psi	603		
4423	12:53	175	0.87	psi	180		

Problem:

Action Taken: Two point PT test failed. New PT calibration. PT OK Site OK TX came in locally.

{Auto Entry: Calibrated sensor 4423 by linear regression. Modified calibration data. New calibration [Slope(0.0115), Calibration Offset(-0.0168), Std Error(0.0049), Calibration Date(6/18/2013 12:53:47 PM)]}.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Bridge Date: 29-Oct-13 Time: 14:05

Service Type: End of Season Technician: NK Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4423 0.011 -0.0551 0.0168

Site ID:

4420

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Meas	sure	Predicted		
4423	14:13	1602	7.76	psi	1559		
4423	14:15	1551	7.52	psi	1511		
4423	14:16	1921	9.32	psi	1871		
4423	14:17	1027	4.98	psi	999		
4423	14:18	623	3.01	psi	606		
4423	14:19	5	0.00	psi	1		
4423	14:20	587	2.83	psi	588		
4423	14:21	1606	7.79	nsi	1610		

Problem:

**Action Taken:** Two point PT test failed. PT re-calibrated. PT OK. PT conduit to riser is broken needs fixed. vswr = 1.00. Pulled up PT and took TXR out of site.

{Auto Entry: Calibrated sensor 4423 by linear regression. Modified calibration data. New calibration [Slope(0.0112), Calibration Offset(-0.0551), Std Error(0.0168), Calibration Date(10/29/2013 2:20:01 PM)]}.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

4420

Site ID:

Service Log

Site Name: Time: 8:23 **Bridge** Date: 19-Jul-13 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

In mid June PT values jumped 1 ft up after maintenance trip. Problem:

Action Taken: Found PT riser slid down a little. I could see the shiny spots on the riser where the straps use to

be. Pulled PT riser up to where the mounts matched the shiny spots on the riser. Riser is

probably within a 0.1 or two of reference before June inspection.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4420

Service Log

Site Name: Bridge Date: 26-Mar-13 Time: 11:17
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 2176 4420
BY R 9735 4420

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 9735 12.92

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4423
 11:35
 1160
 5.58 psi
 1151

 4423
 11:36
 453
 2.17 psi
 448

Problem:

Action Taken: Start Up. RF OK, PT OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4420

Service Log

Site Name:BridgeDate:22-Aug-13Time:10:05Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1252
 4420

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 9735 13.01

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4423
 10:12
 1119
 5.52 psi
 1108

 4423
 10:13
 240
 1.20 psi
 242

**Problem:** Low battery

Action Taken: Changed out battery. Two point PT test passed. PT cal good. PT OK Site OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4420

Service Log

Site Name: Bridge Date: 19-Sep-13 Time: 9:17
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: First INSP since sep. flood. Water still running at 4ft or top of riser. Conduit and riser all appear

to be intact. Site is operational but over reporting. Over reporting possible due to intense wave action over riser. Too dangerous to access PT or electronics. Will test PT once water lowers. No

immediate insfructure needed

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4430

Site ID:

Service Log

Site Name: Rowena Date: 29-Mar-13 Time: 13:49
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 2687 4430
BY R 1138 4430

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1138 13.36

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4433
 14:01
 1108
 5.55 psi
 1114

 4433
 14:02
 319
 1.59 psi
 321

Problem:

Action Taken: Start Up. RF OK (SWR = 1.08), PT Ok.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4430

Site ID:

Service Log

Site Name:RowenaDate:15-Aug-13Time:14:49Service Type:InspectionTechnician:NK/ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4433
 14:57
 442
 2.26 psi
 454

 4433
 14:58
 1016
 5.13 psi
 1031

Problem:

Action Taken: PT tested within acceptable range.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:RowenaDate:13-Jun-13Time:15:18Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4430

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4433
 15:23
 998
 5.05 psi
 1014

 4433
 15:24
 201
 1.04 psi
 210

Problem:

Action Taken: 2 point PT test passes. PT OK Site OK Heard TX locally.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Rowena Date: 10-Oct-13 Time: 12:41

Service Type: End of Season Technician: SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4430

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4433
 12:48
 951
 4.74 psi
 953

 4433
 12:49
 494
 2.46 psi
 495

**Problem:** Site not reading accurately

Action Taken: Removed TXR, Battery for winter. Pulled up PT. Site is operational after flooding. PT tested

OK. PT Intake was destroyed in the flood. Needs replaced. Could not find or flush out.

Site Notes:

Follow-Up: Replace conduit and PT intake.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

4440

Service Log

Site Name: Date: Time: 12:46 **James Creek** 26-Mar-13 Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location TX J 2689 4440 BY R 0303 4440

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 0303 13.15 Test Transmission

Port Time Count Measure Predicted 4443 13:04 966 4.17 psi 983 4443 13:05 288 270 1.22 psi

Problem:

Action Taken: Start Up. RF OK, PT OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: James Creek Date: 29-Apr-13 Time: 12:54
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4443 0.011 -0.3731 0.0806

Site ID:

4440

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tra	nsmission				
Port	Time	Count	Measure		Predicted
4443	13:34	1854	8.62	psi	2030
4443	13:35	1454	6.76	psi	1593
4443	13:36	1057	4.92	psi	1160
4443	13:37	632	2.97	psi	701
4443	13:38	230	1.10	psi	259
4443	13:43	1966	9.55	psi	2249
4443	13:44	1407	6.96	psi	1639
4443	13:48	1919	8.74	psi	2058
4443	13:49	1502	6.80	psi	1602
4443	13:49	1120	5.03	psi	1186
4443	13:49	680	2.99	psi	705
4443	13:50	285	1.16	psi	274
4443	13:50	1128	5.07	psi	1129
4443	13:51	405	1.71	psi	404

**Problem:** intermittent transmissions

Action Taken: Replaced TXR with unit that has PA. Suspected precious PA failure. Calibrated PT. RF OK.

{Auto Entry: Calibrated sensor 4443 by linear regression. Modified calibration data. New calibration [Slope(0.0107), Calibration Offset(-0.3731), Std Error(0.0806), Calibration

Date(4/29/2013 1:50:37 PM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:James CreekDate:13-Jun-13Time:14:32Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4440

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4443
 14:38
 1075
 4.89 psi
 1090

 4443
 14:39
 248
 1.02 psi
 254

Problem:

Action Taken: 2 point PT test passed. PT OK Site OK Heard TX locally.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4440

Service Log

Site Name:James CreekDate:12-Jul-13Time:9:41Service Type:InspectionTechnician:SBStatus:OK

**Configuration Changes** 

 Part #
 Location

 TX J 25144
 4440

 BY R 1108
 4440

Transducer Calibration

 Sensor ID
 Slope
 Calib Offset
 Std Error

 4443
 0.011
 -0.0149
 0.0035

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count Measure		Predicted			
4443	10:01	1485	6.90	psi	1521		
4443	10:12	1912	8.87	psi	1948		
4443	10:13	1156	5.36	psi	1191		
4443	10:14	706	3.27	psi	740		
4443	10:15	306	1.42	psi	340		
4443	10:16	1072	4.97	psi	1073		
4443	10:17	180	0.83	psi	180		

**Problem:** Site not reporting.

Action Taken: Pressure transducer shorts when in water. Works fine on calibrator. Needs replaced.

{Auto Entry: Calibrated sensor 4443 by linear regression. Modified calibration data. New calibration [Slope(0.0107), Calibration Offset(-0.0149), Std Error(0.0035), Calibration

Date(7/12/2013 10:15:25 AM)]}.

Site Notes:

Follow-Up: Replace PT.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4440

Service Log

Site Name: James Creek Date: 26-Jul-13 Time: 10:52
Service Type: OneRain Service Ca Technician: NK/LP Status: OK

**Configuration Changes** 

Part # Location PT D 3892272 4440 Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4443 0.011 0.0034 0.003

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4443 11:08 1974 9.27 psi 2034 4443 11:09 1503 1559 7.07 psi 4443 11:10 1073 1122 5.04 psi 697 4443 11:11 3.28 psi 741 4443 11:12 22 0.10 psi 57

**Problem:** Bad PT

Action Taken: Replaced PT. Adjusted zero and span on sig board. Calibrated new PT. Site operational

{Auto Entry: Calibrated sensor 4443 by linear regression. Modified calibration data. New calibration [Slope(0.0108), Calibration Offset(0.0034), Std Error(0.0030), Calibration

Date(7/26/2013 11:12:59 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4440

Service Log

Site Name: James Creek Date: 19-Sep-13 Time: 14:42

Service Type: OneRain Service Ca Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: River channel over took road at site location. Road is demolished. Flood took all site equipment.

Not possible to

re-install site at this location.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4440

Service Log

Site Name: James Creek Date: 26-Apr-13 Time: 11:50
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: 57EE

*Tx Freq:* **169.500** 

Rx Freq:

Fwd Power: 12.0

Rev Power: 1.0

SWR: 1.81

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4443
 11:52
 1262
 5.31 psi
 1250

4443 11:53 627 2.63 psi 620

**Problem:** Site not responding

Action Taken: PT tested OK. Site reports fine locally. Power Amp may be failing... pushing 12 watts. May

need to replace.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4450

Service Log

Site Name: Lower Lefthand Date: 19-Sep-13 Time: 14:48

Service Type: OneRain Service Ca Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Flood over took road and site structure. Electronics, etc. completely gone. Site demolished. New

location required to install gage.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

4450

Service Log

Site Name: Date: Time: 15:15 **Lower Lefthand** 15-Aug-13 Technician: NK/ZC Service Type: Inspection Status: OK

**Configuration Changes** 

Part # Location BY R 1135 4450

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: Tx Freq:

Rx Freq: Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0637 13.00 Test Transmission

Port Time Count Measure Predicted 4453 15:26 1056 5.19 psi 1053 4453 15:27 444 430 2.17 psi

Problem:

Action Taken: Replaced battery. PT tested within acceptable range.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Lower Lefthand Date: 26-Mar-13 Time: 13:20
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 21422 4450
BY R 0637 4450

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4450

400

135

Tx Maintenance

Test Transmission

13:40

13:41

4453

4453

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 0637 12.89

Port Time Count Measure Predicted 4453 13:37 1038 4.94 psi 1003 768 4453 13:38 788 3.80 psi 4453 13:39 525 501 2.51 psi

422

161

2.02 psi

0.73 psi

Problem:

Action Taken: Start Up. RF OK. Recalibrated PT

Slope: 0.0112 Offset: 0.1749

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Service Log

Site Name: Date: 24-Jul-13 Time: 10:08 **Lower Lefthand** Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4450

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: moved PT back to stop bolt. @ 10:15 inside staff reads 0.92. Outside staff reads 0.89. Will

adjust reference in contrail. PT reads 1.97 ft after adjustment. Need a -1.05 reference in contrail.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4450

Predicted

Service Log

Site Name:Lower LefthandDate:23-Jul-13Time:15:35Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure

4453 15:36 1271 6.25 psi 1271 4453 15:37 281 1.35 psi 263

**Problem:** PT believed to be reading a foot higher than actual stage.

Action Taken: Conducted two point PT test again to verify calibration. Current PT calibration good. PT reading

2.04 ft @ 15:30. outside staff plate reading 0.98 ft. Adjusted PT in riser to match outside staff

plate. @ 15:47 PT reading 0.98 ft. Site believed to be ok now.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Lower Lefthand Date: 19-Jul-13 Time: 9:28
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4450

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** Same problem as site bridge. In mid June PT value jumped 1ft after site maintenance.

Action Taken: PT riser it bolted well and very tight. PT is definley at the bottom of the riser. Not sure of problem.

Two point PT test passed

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4450

Service Log

Site Name: Lower Lefthand Date: 14-Jun-13 Time: 11:32
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4453
 11:38
 1047
 5.14 psi
 1043

 4453
 11:39
 271
 1.31 psi
 254

Problem:

Action Taken: 2 point PT test passed. current calibration good. PTOK Site OK Heard TX locally.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: S. St. Vrain at Berry R Date: 26-Apr-13 Time: 13:13

Service Type: OneRain Service Ca Technician: SB Status: PT Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4460

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** PT erratic

Action Taken: tested PT. Shorted putting out 12 Volts. Needs replaced. Disconnected battery.

Site Notes:

Follow-Up: Replace PT.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: S. St. Vrain at Berry R Date: 06-Jun-13 Time: 11:23
Service Type: OneRain Service Ca Technician: SB Status: OK

**Configuration Changes** 

Part # Location PT D 3892268 4460 Transducer Calibration

 Sensor ID
 Slope
 Calib Offset
 Std Error

 4463
 0.011
 0.1593
 0.0364

Site ID:

4460

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Tran	nsmission				
Port	Time	Count	Meas	sure	Predicted
4463	11:44	1871	9.29	psi	2209
4463	11:45	1468	7.29	psi	1735
4463	11:46	1012	5.05	psi	1201
4463	11:47	650	3.27	psi	778
4463	11:48	231	1.21	psi	288
4463	11:48	540	2.76	psi	544

**Problem:** PT Down

Action Taken: Installed new PT. Adjusted zero and span. Calibrated PT. PT OK.

{Auto Entry: Calibrated sensor 4463 by linear regression. Modified calibration data. New calibration [Slope(0.0114), Calibration Offset(0.1593), Std Error(0.0364), Calibration

Date(6/6/2013 11:48:21 AM)]}.

Site Notes: PT Length 75 feet.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4460

Service Log

Site Name: S. St. Vrain at Berry R Date: 29-Mar-13 Time: 10:39
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 2174 4460
BY R 1105 4460

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1105 13.16

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4463
 10:52
 1293
 5.44 psi
 1293

 4463
 10:53
 529
 2.21 psi
 527

Problem:

Action Taken: Start Up. RF OK (SWR = 1.00), PT OK.

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Site ID: 4460

Service Log

Site Name: Time: 10:09 S. St. Vrain at Berry R Date: 16-Aug-13 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4463 0.011 -1.0201 0.2999

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
4463	10:17	1313	6.00	psi	1238
4463	10:18	1998	9.40	psi	1925
4463	10:19	1530	7.08	psi	1456
4463	10:20	1142	5.16	psi	1068
4463	10:21	665	2.79	psi	588
4463	10:22	148	0.23	psi	71
4463	10:23	1964	9.25	psi	1894
4463	10:24	1514	7.03	psi	1445
4463	10:25	1074	4.85	psi	1004
4463	10:26	641	2.70	psi	570
4463	10:27	161	0.33	psi	89
4463	10:28	1957	9.24	psi	1893
4463	10:29	1508	7.02	psi	1444
4463	10:30	1081	4.91	psi	1016

Problem:

Action Taken: Two point PT test failed. PT was re-calibrated. Std Error is petty high. PT was calibrated three times with same std error all three times. After calibration, two point test passed.

{Auto Entry: Calibrated sensor 4463 by linear regression. Modified calibration data. New calibration [Slope(0.0114), Calibration Offset(-1.0201), Std Error(0.2999), Calibration Date(8/16/2013 10:32:56 AM)]}.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Service Log

Site Name: Time: 11:15 S. St. Vrain at Berry R Date: 13-Jun-13 Service Type: Inspection Status: OK Technician: NK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4463 0.011 -0.3552 0.0747 4463 0.011 -0.2674 0.0663

Site ID:

4460

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
4463	11:20	1802	8.78	psi	2089
4463	11:21	1454	7.06	psi	1680
4463	11:22	1007	4.84	psi	1151
4463	11:23	650	3.07	psi	730
4463	11:24	300	1.34	psi	318
4463	11:26	1655	8.08	psi	1667
4463	11:27	1413	6.89	psi	1424
4463	11:28	1029	4.99	psi	1040
4463	11:29	470	2.21	psi	479
4463	11:30	199	0.87	psi	207

Problem:

Action Taken: 2 point PT test failed, out of calibration. Recalibrated PT. PT OK Site OK Heard transmissions

locally.

{Auto Entry: Calibrated sensor 4463 by linear regression. Modified calibration data. New calibration [Slope(0.0114), Calibration Offset(-0.2674), Std Error(0.0663), Calibration Date(6/13/2013 11:30:48 AM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Little Narrows Date: 02-Jan-13 Time: 11:05
Service Type: OneRain Service Ca Technician: PB Status: OK

**Configuration Changes** 

Part # Location
TX J 19006 4470
BY R 1232 4470

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4470

0

Tx Maintenance

4470

11:46

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1232 13.17

Test Transmission

Port Time Count Measure Predicted

4470 11:46 5 0

6

**Problem:** PT over-reporting, quit.

Action Taken: Test button not functional. Changed battery. Transmitter test still did not work. Transmitting

fluctuating PT values on tailgate. Replaced txr. TB OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Little Narrows Date: 29-Apr-13 Time: 11:03
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location PT D 3723934 4470 Transducer Calibration

 Sensor ID
 Slope
 Calib Offset
 Std Error

 4473
 0.011
 0.0503
 0.0115

Site ID:

4470

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq:

Rx Freq:
Fwd Power:
Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Trai	nsmission				
Port	Time	Count	Meas	sure	Predicted
4470	12:20	2			0
4473	12:00	1924	9.23	psi	1925
4473	12:01	1485	7.13	psi	1489
4473	12:03	1087	5.23	psi	1092
4473	12:05	663	3.20	psi	671
4473	12:06	240	1.17	psi	249
4473	12:07	1090	5.25	psi	1096
4473	12:08	403	1.95	psi	405

**Problem:** PT Down

Action Taken: Installed new PT, 160 feet. Installed sprinkler box at conduit access location. Removed power

amp from TXR. PT OK. RF OK. TB OK.

{Auto Entry: Calibrated sensor 4473 by linear regression. Modified calibration data. New calibration [Slope(0.0110), Calibration Offset(0.0503), Std Error(0.0115), Calibration

Date(4/29/2013 12:06:57 PM)]}.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Service Log

Site Name: Time: 9:29 **Little Narrows** Date: 16-Aug-13 Technician: NK Service Type: Inspection Status: OK

**Configuration Changes** 

Part # Location BY R 1109 4470

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4473 0.011 0.278 0.0802

Site ID:

4470

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

**Battery Tests** 

Battery # BY R 0615 V Quiescent V Load

13.19

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
4470	9:40	1		0
4470	9:40	1		0
4470	9:41	2		0
4470	9:41	2		0
4473	9:49	1881	9.20 psi	1924
4473	9:50	1423	6.99 psi	1461
4473	9:51	1036	5.12 psi	1070
4473	9:52	578	2.91 psi	605
4473	9:54	24	0.24 psi	45
4473	9:55	1277	6.28 psi	1280
4473	9:56	360	1.86 psi	361

Problem:

Action Taken: Replaced battery. TB was clean and clear on arrival. TB received two tips. TB OK Two point PT test failed. PT was re-calibrated. PT OK Site OK

> {Auto Entry: Calibrated sensor 4473 by linear regression. Modified calibration data. New calibration [Slope(0.0111), Calibration Offset(0.2780), Std Error(0.0802), Calibration

Date(8/16/2013 9:55:10 AM)]}.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4470

Service Log

Site Name: Little Narrows Date: 12-Apr-13 Time: 9:39

Service Type: OneRain Service Ca Technician: MZ/NK Status: PT Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Verified PT is bad. Configured J3 to not send PT.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4470

Site ID:

Service Log

Site Name: Little Narrows Date: 29-Mar-13 Time: 9:52
Service Type: Start Up Technician: MZ Status: OK

**Configuration Changes** 

Part # Location
TX J 19006 4470
BY R 0615 4470

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0615 13.15

Test Transmission						
Port	Time	Count	Measure	Predicted		
4470	10:06	1		0		
4470	10:06	1		0		
4470	10:10	2		0		
4470	10:10	2		0		

Problem:

Action Taken: Start Up. RF OK, TB OK. SWR = 1.00. Replaced battery and desiccant.

PT tested unsuccessfully. Replacement required.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4470

Service Log

Site Name: Little Narrows Date: 13-Jun-13 Time: 10:55
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Trai	nsmission			
Port	Time	Count	Measure	e Predicted
4470	11:02	91		0
4470	11:02	91		0
4470	11:02	93		0
4470	11:02	93		0
4473	10:59	1152	5.52 ps	si 1153
4473	11:00	327	1.65 ps	si 342

Problem:

Action Taken: 2 point PT test passed. PT OK 4 tips on TB. TB clear and OK TX heard locally. Site OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Apple Valley Date: 19-Nov-13 Time: 12:23
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1308
 4490

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4490

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX J 876 139.5 2 0.00

Settings and Performance

Switches: **4490-00E** 

Jumpers:

Eprom: R 1.8 57FE Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1308 13.08

Test Transmission Port Time Count Measure Predicted 4490 12:42 0 1 4490 12:42 0 1 4490 12:42 2 0 12:42 4490 2 0 4784 12:45 12 0

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with IFR. TXR is within specs. TXR OK. swr = 1.18.

RF OK. Tested solar. Solar OK. TB clean and clear on arrival. TB OK. Site OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4490

Service Log

Site Name:Apple ValleyDate:24-Jul-13Time:13:34Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port Time Count Measure Predicted
4490 13:36 156 0

 4490
 13:36
 156
 0

 4490
 13:37
 157
 0

 4490
 13:37
 157
 0

Problem:

Action Taken: TB clean and clear upon arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4510

Service Log

Site Name: Pinewood Spring Date: 24-Jul-13 Time: 12:39
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4510

12:55

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission							
Port	Time	Count	Measure	Predicted			
4510	12:55	251		0			
4510	12:55	251		0			
4510	12:55	252		0			

252

Problem:

Action Taken: TB clean and clear upon arrival. TB received two tips. TB OK Site OK

Site Notes: Follow-Up:

0

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Pinewood Spring Date: 19-Nov-13 Time: 10:37
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1231
 4510

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4510

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX J 101 49.2 2.4 0.00

Settings and Performance

Switches: 4510

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0838 13.34

Test Transmission Port Time Count Measure Predicted 4510 11:03 0 1 4510 11:03 0 1 4510 11:04 2 0 11:04 2 4510 0

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with IFR. TXR is within specs. TXR OK. swr = 1.07.

RF OK. Tested solar. Solar OK. TB clean and clear on arrival. TB OK. Site OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4520

Service Log

Site Name:Eagle RidgeDate:24-Jul-13Time:14:10Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4520 14:12 285 0

4520 14:12 286 0

Problem:

Action Taken: TB clean and clear upon arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4520

Site ID:

Service Log

Site Name: Eagle Ridge Date: 12-Apr-13 Time: 11:56
Service Type: Start Up Technician: MZ/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1320
 4520

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom: 4520E
Tx Freq: 169.500
Rx Freq: 169.500
Fwd Power: 4.0
Rev Power: 0.0
SWR: 1

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1320 12.98

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: changed one battery and desiccant. TB ok, TX ok, solar OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Winiger RidgeDate:29-Oct-13Time:12:32Service Type:End of SeasonTechnician:NKStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 1255
 4530

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4530

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 976
 5.01
 244.3
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

Battery Tests

SWR:

Battery # V Quiescent V Load

BY R 1255 12.83

rest rrai	nsmission			
Port	Time	Count	Measure	Predicted
4530	12:41	0		0
4530	12:48	1		0
4530	12:48	2		0
4530	12:49	3		0
4535	12:41	1510		0

Problem:

Action Taken: Changed out battery and desiccant. Tested TXR with IFR. All IFR measurements are within

spec. TXR OK. vwsr = 1.06. RF OK. TB clean and clear on arrival. TB OK. Site OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4530

Site ID:

Service Log

Site Name: Winiger Ridge Date: 01-Apr-13 Time: 12:00
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4530-00E

Jumpers: C:J5 off; L:J7,11 on

Eprom: R 1.8 57FE Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 25.0

 Rev Power:
 1.0

 SWR:
 1.5

Battery Tests

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4530
 12:12
 1
 0

 4530
 12:15
 2
 0

Problem:

Action Taken: TB OK RF OK Solar OK (cloudy)

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4530

Service Log

Site Name:Winiger RidgeDate:01-Aug-13Time:13:45Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4530 13:47 248 0

4530 13:47 246 0 4530 13:48 249 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Service Log

Site Name: Time: 13:25 Louisville Rptr Date: 13-Feb-13 Service Type: Start Up Technician: SB/ZC Status: OK

**Configuration Changes** 

Part # Location BY R 1133 4540 BY R 1101 4540

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4540

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: 4540 C Tx Freq: 169.500 Rx Freq: 169.500 Fwd Power: 5.0 Rev Power: 0.1 1.33 SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery and desiccant. RF OK. AC charge OK.

Site Notes: Key has changed to SC1

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4550

Service Log

Site Name: Boulder Jail Date: 22-Jul-13 Time: 12:22
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted 4550 12:28 161 0

4550 12:28 162 0

Problem:

Action Taken: TB dirty and clogged. TB cleaned. TB two tips. Site ok,

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Boulder Jail Date: 17-Oct-13 Time: 10:29
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1239
 4550

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4550

0

Tx Maintenance

4550

10:47

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 251
 5.00
 68
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load BY R 1036 12.76 12.72 
 Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4550
 10:44
 1
 0

 4550
 10:47
 2
 0

4

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with IFR field procedures. TXR is within limits. TXR

good. TB was clean and clear on arrival. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4550

Service Log

Site Name: Boulder Jail Date: 12-Feb-13 Time: 10:43
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
TX J 25185 4550
TB J 3976 4550
BY R 1036 4550

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4550-00E

Jumpers:

Eprom: R1.8 585B Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 2.0

 Rev Power:
 0.2

 SWR:
 1.92

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1036 13.00

Port	Time	Count	Measure	Predicted
4550	11:07	1		0
4550	11:07	2		0
4550	11:08	3		0
4550	11:09	4		0
4550	11:11	5		0
4550	11:11	6		0

Problem:

Action Taken: Install TXR, TB and battery. RF OK TB OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4560

Service Log

Site Name: Lyons Diversion Date: 19-Sep-13 Time: 16:32

Service Type: OneRain Service Ca Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Concrete structure still standing. Flood eroded all earth material around gage. Access road to

gage no longer exists. Antenna gone. Lock on door structure must of been change. Use to be USGS key. This key no longer fits. Could not check out TX or PT. Site down, new location might

be required.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Lyons DiversionDate:15-Aug-13Time:11:44Service Type:InspectionTechnician:NK/ZCStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4560

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Two point PT test passed. Current cal good. PT OK Site OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4560

Service Log

Site Name: Lyons Diversion Date: 12-Apr-13 Time: 10:24
Service Type: Start Up Technician: MZ/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1318
 4560

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4560-E00
Jumpers: JB3,4,5 off

Eprom: **57EE** *Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.0

 SWR:
 1

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1318 12.89

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4563
 10:35
 588
 2.45 psi
 579

 4563
 10:36
 204
 0.82 psi
 196

Problem:

Action Taken: Start Up. Replaced Battery and Desiccant. PT OK, RF OK.

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

4560

Service Log

Site Name: Date: 13-Jun-13 Time: 10:25 **Lyons Diversion** Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 4563 10:32 1351 5.69 psi 1341 4563 10:33 372 363 1.53 psi

Problem:

Action Taken: 2 point PT test passed. TX came in locally. PT ok

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

4570

Service Log

Site Name: St. Antons Date: 08-Oct-13 Time: 10:55
Service Type: End of Season Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1301
 4570

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

TX J 268 4.99 150 2

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:

Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1301 12.97

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4570
 11:18
 1
 0

 4570
 11:18
 2
 0

Problem:

Action Taken: Bench tested TXR. TXR OK. RF OK. TB OK. Replaced battery and desiccant.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4570

Site ID:

Service Log

Site Name: St. Antons Date: 16-Oct-13 Time: 12:26
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1205
 4570

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 268
 4.99
 114
 2.2
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

 Battery #
 V Quiescent
 V Load

 BY R 1234
 13.24
 13.15

Test Transmission

Port Time Count Measure Predicted 4570 12:38 1 0 12:39 2 4570 0 12:40 3 0 4570

Problem:

Action Taken: Test TX with IFR field procedure. TX within specs. TX OK TB clean and clear on arrival. TB OK

Replaced battery and desiccant. Site OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Site ID:

4570

Service Log

Site Name: Date: Time: 12:08 St. Antons 07-Aug-13 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location BY R 1234 4570

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1040 13.12 Test Transmission

Port Time Count Measure Predicted 4570 12:21 1 0 4570 12:22 0 2

Problem:

Action Taken: Replaced battery. Some debris stuck in TB. TB cleaned. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4570

Service Log

Site Name: St. Antons Date: 01-Apr-13 Time: 13:06
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4570-3-0

Jumpers: C:J6,2-3,J5 off;L:J1,4,7,11

Eprom: R 1.8 585B Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 3.5

 Rev Power:
 0.1

 SWR:
 1.41

Battery Tests

Battery # V Quiescent V Load

Port Time Count Measure Predicted
4570 13:16 1 0

 4570
 13:16
 1
 0

 4570
 13:18
 2
 0

 4570
 13:18
 3
 0

Problem:

Action Taken: TB OK RF OK Power OKt

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT** ONERAIN INCORPORATED

Service Log

Site Name: Time: 13:41 **Broadway** Date: 18-Jun-13 Service Type: Technician: NK Inspection Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4583 0.006 -0.097 0.0229

Site ID:

4580

Tx Maintenance

Test Transmission

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq: Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Port	Time	Count	Measur	e Predicted
4583	13:47	1765	4.40 ps	si 1803
4583	13:48	1354	3.37 ps	si 1386
4583	13:49	952	2.35 ps	si 976

4583 13:50 556 1.36 psi 573 4583 13:51 165 0.37 psi 174

Problem:

Action Taken: Two point PT test failed. New calibration. PT OK Site OK

{Auto Entry: Calibrated sensor 4583 by linear regression. Modified calibration data. New calibration [Slope(0.0058), Calibration Offset(-0.0970), Std Error(0.0229), Calibration

Date(6/18/2013 1:51:50 PM)]}.

Site Notes:

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

4580

Site ID:

Service Log

Site Name: Date: Time: 9:47 **Broadway** 22-Aug-13 Service Type: Technician: NK Status: OK Inspection

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 4583 9:51 648 1.59 psi 648 4583 9:52 1925 1927

4.80 psi

Problem:

Action Taken: Two point PT test passed. Current cal good. PT OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4580

Service Log

Site Name: Broadway Date: 13-Feb-13 Time: 10:53
Service Type: Start Up Technician: SB/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: 4580-

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4583
 10:58
 1215
 2.95 psi
 1216

 4583
 10:59
 492
 1.15 psi
 488

Problem:

Action Taken: Replaced battery and desiccant. Tested PT. PT OK. RF OK. Changed program to HI Flow.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID:

4580

Service Log

Site Name: Broadway Date: 08-Nov-13 Time: 12:26
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 4580-

Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 3.5

 Rev Power:
 0.1

 SWR:
 1.41

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem: Can't access PT

Action Taken: Could not access PT. The city/county has moved rocks into the channel completely covering our

PT riser. We would need heavy equipment to gain access. The PT is still working. Did not load low flow program in fear that we would have to re-calibrate the PT which we can not do now

without access. Replaced battery and desiccant. Solar OK. RF OK.

Site Notes:

Follow-Up: Contact city of boulder.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Green Ditch Date: 08-Nov-13 Time: 11:19
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location
BY R 1037 4590

Transducer Calibration

Sensor ID Slope Calib Offset Std Error 4593 0.01 -0.0893 0.0247

Site ID:

4590

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq:

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1112 13.11

Test Transmission									
Port	Time	Count	Measure		Predicted				
4593	11:33	1651	7.07	psi	1628				
4593	11:34	2047	9.14	psi	2106				
4593	11:35	1197	5.11	psi	1176				
4593	11:36	721	3.06	psi	704				
4593	11:37	9	0.00	psi	-3				
4593	11:39	1959	8.39	psi	1932				
4593	11:40	1599	6.84	psi	1603				
4593	11:41	352	1.47	psi	352				

Problem:

**Action Taken:** Replaced battery and desiccant. Updated firmware on CR200. Changed CR200 program for winter settings. Solar OK. Flushed PT intake pipe. Cleaned debris around riser. Two point PT

test failed. Re-calibrated PT. PT OK. Tested TXR with watt meter. TXR OK. Site OK

{Auto Entry: Calibrated sensor 4593 by linear regression. Modified calibration data. New calibration [Slope(0.0099), Calibration Offset(-0.0893), Std Error(0.0247), Calibration Date(11/8/2013 11:39:56 AM)]}.

Site Notes:

Service Log

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site Name: Green Ditch Date: 12-Feb-13 Time: 10:04
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1112
 4590

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Site ID:

4590

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1112 12.83

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4593
 10:23
 1166
 5.01 psi
 1153

 4593
 10:24
 499
 2.11 psi
 483

Problem:

Action Taken: Replaced battery and desiccant. Tested PT. PT OK RF OK Solar OK. Changed program for Hi

Flow season.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4590

Site ID:

Service Log

Site Name:Green DitchDate:22-Aug-13Time:9:15Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4593
 9:20
 306
 1.29 psi
 294

 4593
 9:21
 1480
 6.34 psi
 1459

Problem:

Action Taken: Two point PT test passed. Current cal good. Upper end is close to being out of count. PT OK

Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Green DitchDate:18-Jun-13Time:14:33Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4590

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission								
Port	Time	Count	Measure		Predicted			
4593	14:37	2047	8.17	psi	1882			
4593	14:39	1603	6.87	psi	1581			
4593	14:42	1144	4.89	psi	1125			
4593	14:46	476	2.02	psi	463			
4593	14:48	168	0.70	psi	158			
4593	14:59	1642	7.04	psi	1620			
4593	15:00	287	1.20	psi	275			

Problem:

Action Taken: Two point PT test passed. PT OK Site OK

#### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT **ONERAIN INCORPORATED**

Service Log

Site Name: **Hills Mills** Date: 14-Jun-13 Time: 15:24 Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4710

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB tipped twice. TB clean. FS 796N key did not fit lock. Had to walk up. Couldn't do a full

inspection.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4710

Site ID:

Service Log

Site Name: Hills Mills Date: 11-Oct-13 Time: 11:45
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1119
 4710

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX N 207 5.10 155 2.25

Settings and Performance

Switches: 4710

Jumpers:

Eprom: Ver 3.4

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 2.5

 Rev Power:
 0.1

 SWR:
 1.5

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1119 12.90

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4710
 12:07
 1355
 0

 4710
 12:08
 1356
 0

Problem:

Action Taken: Changed battery, desiccant. Tested radio on IFR, OK, installed at site. TXR OK. TB OK. Solar

OK.

@ 12:12 ID 4711 raw = 191 => 74.9% RH, ID 4712 raw = 110 => 30 deg.F,Temperatures too

cold for pyschrometer. Wind sensors rotating freely.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4710

Service Log

Site Name: Hills Mills Date: 15-Aug-13 Time: 13:57
Service Type: Inspection Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

13:59

4710

Port Time Count Measure Predicted 4710 13:59 1056 0

1057

Problem:

Action Taken: Station readings @ 13:57 AT raw = 145 = 65 F. RH raw = 74 = 29.02% Digital Psycrometer @

14:00 AT = 78.2 RH = 15.4%. WS raw = 1380 = 3.35 mph 202 degrees. Anemometer moving freely and appears to be working correctly. TB clean and clear on arrival. TB received two tips.

TB OK Site OK

Site Notes:

Follow-Up:

0

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4730

Service Log

Site Name: Sugarloaf Date: 18-Jun-13 Time: 11:20
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4730
 11:23
 1397
 0

 4730
 11:24
 1398
 0

Problem:

Action Taken: TB clear and clean. TB two tips. Used RH chart for 7,800 elevation. Charts shows RH at 75% at

11:28. Sensor at 77% at 11:19. thermometer AT at 74 F at 11:28. sensor reads 64 F at 11:19. All

OK TX came through locally.

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4730

Service Log

Site Name: Sugarloaf Date: 16-Oct-13 Time: 14:16
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0849
 4730

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt
TH S 570 54 2.4 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:

**Battery Tests** 

SWR:

Battery # V Quiescent V Load

BY R 1212 13.38

Test Transmission

Port Time Count Measure Predicted 4730 14:48 1814 0 14:50 1816 4730 0 4730 14:51 1816 0

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with IFR field procedure. TXR is within specs. TXR

OK. @ 1450 station reads AT = 46 = raw 126. RH = 40.7% = raw = 104. Digital psycrometer reads @ 1455 AT = 46.2 RH = 29.7%. WS/WD is free of movement. Sensors look good. TB

clean and clear on arrival. TB OK Site OK

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4730

Service Log

Site Name:SugarloafDate:22-Aug-13Time:12:16Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4730
 12:15
 1481
 0

 4730
 12:15
 1482
 0

Problem:

Action Taken: Station readings @ 12:19 AT raw = 152 = 72 F --- RH raw = 152 = 72.94% --- WS raw = 6 = 6

mph. TB clean and clear on arrival. TB received two tips. TB OK Anemometer free of movement.

Psycrometer readings @ 12:17 AT = 85.1 F --- RH = 40.1%

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Louisville WTP Date: 13-Feb-13 Time: 13:42
Service Type: Inspection Technician: SB/ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0406
 4750

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4750

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: v. 3.4R Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 1.0

 Rev Power:
 0.1

 SWR:
 1.92

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0406 12.90

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4750
 13:55
 1356
 0

 4750
 13:55
 1357
 0

Problem:

Action Taken: Replaced batteries and desiccant. Radio is only outputting 1 watt. Left in due to close proximity

to repeater. Will continue to monitor. AT 45 RH 25 psychrometer reading AT 47 RH 26. AT OK,

BP OK. Wind OK. TB OK. RF monitor.

Site Notes:

Follow-Up: Monitor radio performance

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4750

Service Log

Site Name:Louisville WTPDate:22-Jul-13Time:13:05Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

4750 13:15 1475 0 4750 13:16 1477 0 4750 13:16 1477 0

Problem:

Action Taken: Solar OK. TB three tips. TB OK. Wind OK. @ 12:56 ID 4751 raw = 99 => 38.62% RH, ID 4752

raw = 167 => 87 deg. @ 13:07 Digital Psychrometer readings Temp 91.2. RH 31.8. Tw 69.8

Dew Point 56.1

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4750

Site ID:

Service Log

Site Name: Louisville WTP Date: 30-Oct-13 Time: 14:57
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1127
 4750

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX N 213 299 2.4 0.00

Settings and Performance

Switches:

Jumpers:

Eprom: v. 3.4R Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1127 13.00

Test Transmission

Port Time Count Measure Predicted 4750 15:11 1794 0

Problem:

Action Taken: changed battery and desiccant. Sensor readings @ 15:01. AT = 35 raw = 115....RH = 91.7% raw

= 234....BP = 1008 mbar. Digital psycrometer AT = 46, RH = 58.2%. TB OK. Wind Monitor is free

of movement. Site OK.

Site Notes:

#### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Service Log

Site Name: Date: 13-Jun-13 Time: 14:01 CalWood Ranch Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4770

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load Test Transmission

Port Time Count Measure Predicted 4770 14:05 1485 0

14:06 0 4770 1486

Problem:

Action Taken: RH with humidity calculator 56% Station reading 59.61%. TB Ok. AT reading 81. Sensor on

station reading 71. Wind sensor moving freely. Site OK

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4770

Site ID:

Service Log

Site Name: CalWood Ranch Date: 16-Aug-13 Time: 11:24
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4770
 11:32
 1599
 0

 4770
 11:33
 1600
 0

Problem:

Action Taken: @ 11:20 station readings - - - AT raw = 157 = 77 F - - RH raw = 77 = 30.20% - - WS raw = 1939

= 2.09 mph - - BP raw = 117 = 1014.89 mbar. Digital Psycrometer reading @11:28 AT = 82.5

F - - RH = 12.9 % - - Dew Point = 26.3 - - Wet Bulb = 54.5.

TB clean and clear on arrival. TB received two tips. TB OK Anemometer is moving freely.

Readings all seem good. Site OK

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4770

Site ID:

Service Log

Site Name:CalWood RanchDate:07-Nov-13Time:12:32Service Type:End of SeasonTechnician:NK/SBStatus:OK

**Configuration Changes** 

 Part #
 Location

 BY R 0324
 4770

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX N 212 269 2.4 0.00

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq: 169.500

Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1302 13.01

Test Transmission

Time Count Measure Predicted Port 4770 12:44 2024 0 12:51 2022 4770 0 12:54 2023 0 4770

Problem:

Action Taken: Replaced battery and desiccant. Tested TXR with IFR field procedures. TXR is within specs.

TXR OK. vswr = 2.34. Should replace Yagi antenna. swr is high. Solar OK. Anetomer is free of

movement. Bearings good. TB clean and clear on arrival. TB OK. Site OK.

Station readings @ 12:51 AH = 32.55% raw = 83. WS = 8 mph. BP = 1012. Digital Psycrometer

@ 1255 AT = 61F, RH = 16.4%

Site Notes:

Follow-Up: Replace Yagi antenna.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4770

Service Log

Site Name: CalWood Ranch Date: 08-Apr-13 Time: 14:36
Service Type: Start Up Technician: MZ/NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1302
 4770

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1302 12.98

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: spring start up. TB ok, TX ok, Solar OK Changed battery and desiccant. SWR 2.08. wind sensor

moving freely, didn't have time to test. 1447 AT = 49 RH = 60.

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4790

Service Log

Site Name:Button RockDate:15-Aug-13Time:11:02Service Type:InspectionTechnician:NK/ZCStatus:OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers: Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Digital psychrometer @ 11:02 AT = 79.7 degrees RH = 27.2% DP = 41.0. Station data @ 11:07

RAW RH = 98 = 38.4%. RAW AT 151 = 71 degrees. TB clean and clear on arrival. TB received

two tips. TB OK Wind is spinning freely. Reading seem reasonable. Site OK

Site Notes:

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:Button RockDate:14-Jun-13Time:10:35Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4790

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB two tips. TB clear, and OK. RH table showing a value of 46%. RH from sensor reading 9.8%

Using table for 6,000 to 8,000 ft range. AT on thermometer reading 81 F. Site sensor reading 88

F.Site OK Might be a problem with RH sensor or RH calculator.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4790

Service Log

Site Name:Button RockDate:19-Nov-13Time:11:42Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Road out. Cannot access site.

Service Log

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site Name: Shanahan Ridge Date: 17-Oct-13 Time: 13:37
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location BY R 1033 4810 Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4810

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 135
 4.98
 172
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Ewd Power:

Fwd Power: Rev Power: SWR:

**Battery Tests** 

 Battery #
 V Quiescent
 V Load

 BY R 1033
 13.26
 13.17

Test Transmission

Port Time Count Measure Predicted

4810 13:52 0 1 4810 13:52 0 1 4810 13:53 2 0 13:53 2 4810 0

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with IFR field procedures. TXR is within limits.

VSWR = 1.28. TXR OK RF OK TB clean and clear on arrival. TB OK Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Shanahan Ridge Date: 12-Feb-13 Time: 12:19
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0813
 4810

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4810

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4810-00E

 Jumpers:
 C: J5 off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0813 13.06

Test Transmission

Port Time Count Measure Predicted 4810 12:31 1 0

Problem:

Action Taken: Replaced battery and desiccant. RF OK TB OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4810

Service Log

Site Name:Shanahan RidgeDate:06-Aug-13Time:9:33Service Type:InspectionTechnician:NKStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

 4810
 9:35
 256
 0

 4810
 9:35
 257
 0

 4810
 9:35
 257
 0

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Dowdy Draw Date: 18-Nov-13 Time: 12:17
Service Type: End of Season Technician: SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0303
 4820

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4820

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4820-00E

 Jumpers:
 C: J5 off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0303 13.15

Test Transmission

Port Time Count Measure Predicted 4820 12:24 0 0

Problem:

Action Taken: Replaced battery and desiccant. RF OK. TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4820

Service Log

Site Name: Dowdy Draw Date: 06-Aug-13 Time: 9:56
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4820-00E

 Jumpers:
 C: J5 off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 4820 9:57 216 0 4820 216 0 9:57 4820 9:57 217 0 0 4820 9:57 217

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4820

Service Log

Site Name: Dowdy Draw Date: 19-Feb-13 Time: 12:21
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1218
 4820

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

 Switches:
 4820-00E

 Jumpers:
 C: J5 off

 Eprom:
 R 1.8 9CA1

 Tx Freq:
 169.500

Rx Freq:

 Fwd Power:
 3.0

 Rev Power:
 0.1

 SWR:
 1.45

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1218 12.90

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery and desiccant. RF OK TB OK

### MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4830

Service Log

Site Name: S. Boulder Cr.@ Sans Date: 08-Nov-13 Time: 13:41
Service Type: OneRain Service Ca Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4833
 13:46
 1641
 7.35 psi
 1649

 4833
 13:47
 432
 1.93 psi
 437

**Problem:** Cant find PT riser

Action Taken: PT riser buried under transported sand during flood. Found riser and dug around drit out from

around riser. Flushed PT intake. Two point PT test passed. Current PT calibration good. PT OK.

Site OK.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4830

Service Log

Site Name: S. Boulder Cr.@ Sans Date: 20-Jun-13 Time: 12:10
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission					
Port	Time	Count	Measure	Predicted	
4830	12:16	186		0	
4830	12:16	186		0	
4830	12:17	187		0	
4833	12:15	1431	6.40 psi	1436	
4833	12:16	338	1.48 psi	336	

Problem:

Action Taken: Two point PT test passed. PT OK TB clear and clean. Two tips on TB. TB OK site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4830

Service Log

Site Name: S. Boulder Cr.@ Sans Date: 12-Feb-13 Time: 12:54
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 0339
 4830

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

BY R 0339 12.89

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
4830	12:58	16		0
4830	12:58	17		0
4830	12:58	18		0
4830	13:19	19		0
4830	13:20	20		0
4833	13:13	1089	4.87 psi	1094
4833	13:14	430	1.93 psi	435

Problem:

Action Taken: Replaced battery and desiccant. Tested PT. PT OK RF OK Solar OK.

Site Notes:

Follow-Up: Flush hydraulic contact when ice melts.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4830

Site ID:

Service Log

Site Name: S. Boulder Cr.@ Sans Date: 17-Oct-13 Time: 12:30
Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1024
 4830

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 135
 5.00
 79
 2.4
 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

 Battery #
 V Quiescent
 V Load

 BY R 1204
 13.11
 11.64

 BY R 1024
 13.09
 12.78

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Replaced battery and desiccant. Tested TXR with IFR field procedures. All TXR tests within

limits. TXR OK VWSR = 1.39. RF OK TB clean and clear on arrival. TB OK Could not find PT riser or intake pipe. Looks like river transported a bunch of sand. PT riser is most likely buried. Not that familiar with site to know where to dig for riser. PT seems to be giving accurate values.

Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4840

Service Log

Site Name: SBC @ SB Canon Ditc Date: 02-Jul-13 Time: 14:50
Service Type: Inspection Technician: SB Status: OK

**Configuration Changes** 

Part # Location

**Transducer Calibration** 

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4843

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

14:54

Port Time Count Measure Predicted 4840 14:55 218 0 4843 14:52 1269 1271 5.23 psi 4843 14:53 675 2.78 psi 676

Problem:

Action Taken: PT tested within acceptable range. PT OK. RF OK. Flushed intake. TB OK.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

4840

Site ID:

Service Log

Site Name: SBC @ SB Canon Ditc Date: 12-Feb-13 Time: 13:42

Service Type: Start Up Technician: ZC Status: PT Down

**Configuration Changes** 

 Part #
 Location

 BY R 0431
 4840

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 4840-00E

Jumpers: C:J6,1-2,J3,5 off

Eprom: R1.8 9CA1 Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 4.5

 Rev Power:
 0.4

 SWR:
 1.85

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0431 12.80

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4843
 13:57
 1224
 5.04 psi
 1225

 4843
 13:58
 486
 2.01 psi
 491

Problem:

Action Taken: Replaced battery and desiccant. PT tested. PT OK Cleaned TB funnel. TB OK RF OK Solar OK

Site Notes:

Follow-Up: Hydraulic contact for PT is no good. Needs to be dug up and re-installed. There is currently no

contact.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4840

Service Log

Site Name: SBC @ SB Canon Ditc Date: 08-Nov-13 Time: 14:18

Service Type: End of Season Technician: NK/SB Status: PT Down

**Configuration Changes** 

Part # Location
BY R 1203 4840

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: **4840-00E** 

Jumpers: C:J6,1-2,J3,5 off

Eprom: R1.8 9CA1
Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 5.0

 Rev Power:
 0.5

 SWR:
 1.92

**Battery Tests** 

Battery # V Quiescent V Load

BY R 0431 13.20

Test Trai	nsmission			
Port	Time	Count	Measure	Predicted
4840	14:27	0		0
4840	14:28	1		0
4840	14:28	1		0
4843	14:20	1768	7.30 psi	1773
4843	14:21	504	2.08 psi	508

**Problem:** PT conduit is destroyed.

Action Taken: Changed battery and desiccant. Tested TXR with Watt meter. TXR is with in specs. TXR OK.

Solar OK. TB clogged on arrival. TB cleaned. TB OK. PT passed two point test. PT OK. Turned

PT off. JP3 off. Need to relocate site and re-do conduit. As of now rain only site.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4840

Service Log

Site Name: SBC @ SB Canon Ditc Date: 13-Feb-13 Time: 13:35
Service Type: OneRain Service Ca Technician: SB/ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** intake clogged and bent/rusted.

Action Taken: Replaced PT intake with 20 feet of 1/2" conduit. Good hydraulic contact.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4850

Service Log

Site Name:Porphyry MtnDate:31-Jul-13Time:13:50Service Type:InspectionTechnician:NK/SBStatus:OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

 4850
 14:01
 747
 0

 4850
 14:02
 748
 0

 4850
 14:02
 749
 0

Problem:

Action Taken: TB OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: Porphyry Mtn Date: 07-Nov-13 Time: 13:15
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1010
 4850

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4850

18-Dec-13

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 4.4

 Rev Power:
 0.1

 SWR:
 1.36

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1010 12.99

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with watt meter. TXR OK. TB clean and clear on

arrival. TB OK. Site OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4860

Service Log

Site Name: Fairview Peak Date: 31-Jul-13 Time: 12:55
Service Type: Inspection Technician: NK/SB Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers:

Eprom:

Tx Freq: Rx Freq:

Fwd Power: Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival. TB received five tips. TB OK Site OK

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4860

Service Log

Site Name: Fairview Peak Date: 07-Nov-13 Time: 11:02
Service Type: End of Season Technician: NK/SB Status: OK

**Configuration Changes** 

 Part #
 Location

 BY R 1238
 4860

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom: Tx Freq: Rx Freq:

 Fwd Power:
 4.6

 Rev Power:
 0.1

 SWR:
 1.35

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1238 13.26

Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4860
 11:32
 662
 0

 4860
 11:32
 663
 0

Problem:

Action Taken: Replaced battery and desiccant. TB clean and clear on arrival. TB OK. Tested TXR with watt

meter. TXR OK. Site OK.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4870

Service Log

Site Name: SBC @ South Boulder Date: 17-Jul-13 Time: 13:55
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission					
Port	Time	Count	Measur	е	Predicted
4870	14:08	199			0
4870	14:08	199			0
4870	14:09	200			0
4873	14:05	2016	7.77 p	si	2015
4873	14:06	467	1.80 p	si	469

Problem:

Action Taken: Two point PT test passed. PTcalibration good. TB two tips. TB clear and clean. Site OK

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4870

Service Log

Site Name: SBC @ South Boulder Date: 12-Feb-13 Time: 11:31
Service Type: Start Up Technician: ZC Status: OK

**Configuration Changes** 

Part # Location
TB J 32334 4870
BY R 1207 4870

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Test Transmission

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: 169.500

Rx Freq:

 Fwd Power:
 4.0

 Rev Power:
 0.1

 SWR:
 1.38

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1207 13.05

 Port
 Time
 Count
 Measure
 Predicted

 4870
 11:52
 17
 0

 4870
 14:52
 10
 0

4870 11:53 18 0 4873 11:45 1144 4.35 psi 1130 4873 11:46 515 1.96 psi 511

Problem:

Action Taken: Replaced battery and desiccant. Tested PT. PT OK RF OK Solar OK.

### MAINTENANCE RECORD **URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED**

Service Log

Site Name: Time: 11:08 SBC @ South Boulder Date: 17-Oct-13 Service Type: End of Season Technician: NK Status: OK

**Configuration Changes** 

Part # Location BY R 1106 4870

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

4870

Tx Maintenance

Test Transmission

4873

4873

Part # Ref V Deviation ROM Batt Freg Err **TX J 322** 6.4 2.4 0.00

Settings and Performance

Switches: Jumpers: Eprom:

Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load **BY R 1207** 12.94 13.08

Port Time Count Measure Predicted 4870 11:46 1 0 4870 11:46 0 1 7.18 psi 11:37 1864

1867

343

1.31 psi

342

11:38

Problem:

Action Taken: Changed battery and desiccant. Tested TXR with IFR field procedures. TXR is within limits. TXR

OK VSWR 1.03. RF OK Two point PT test passed. PT OK TB clean and clear on arrival. TB OK

Site OK

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4880

Service Log

Site Name: Whispering Pines Date: 07-May-13 Time: 11:14
Service Type: Start Up Technician: NK/ZC Status: OK

**Configuration Changes** 

Part # Location BY R 1305 4880 Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:

Tx Freq: Rx Freq: Fwd Power: Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1305 12.92

Test Transmission

Port Time Count Measure Predicted

4880 11:30 1 0 4880 11:31 2 0 4880 11:31 3 0

Problem:

Action Taken: battery and desiccant changed. TB ok, RF OK VWSR 3.19

Site Notes:

Follow-Up: high vwsr 3.19, continue to monitor receptions

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4880

Service Log

Site Name: Whispering Pines Date: 23-Jul-13 Time: 13:49
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4880

4880

13:56

13:57

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

 Test Transmission

 Port
 Time
 Count
 Measure
 Predicted

 4880
 13:51
 117
 0

 4880
 13:51
 118
 0

119

120

Problem:

Action Taken: TB clean and clear. TB tipped four times. TB OK Site OK

Site Notes: Follow-Up:

0

0

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4880

Service Log

Site Name: Whispering Pines Date: 04-Oct-13 Time: 14:38
Service Type: End of Season Technician: ZC Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

4880

14:59

 Part #
 Ref V
 Freq Err
 Deviation
 ROM Batt

 TX J 196
 5.00
 275
 2
 0.00

Settings and Performance

Switches:

Jumpers:

Eprom:

*Tx Freq:* **169.500** 

Rx Freq:

 Fwd Power:
 2.0

 Rev Power:
 0.2

 SWR:
 1.92

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission Port Time Count Measure Predicted 4880 14:56 1 0 4880 14:57 2 0 4880 14:59 3 0

4

Problem:

Action Taken: Tested replacement TXR on IFR. TXR OK Replaced battery. RF OK TB ok

Site Notes: Follow-Up:

0

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 4880

Service Log

Site Name:Whispering PinesDate:04-Oct-13Time:14:20Service Type:End of SeasonTechnician:ZCStatus:OK

**Configuration Changes** 

Part # Location
TX J 19665 4880
BY R 1038 4880

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

TX J 196 5.00 0.00

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1038 12.93

Test Transmission

Port Time Count Measure Predicted

**Problem:** TXR appears to have power issues. Check in shop

Action Taken: Replaced TXR with spare TXR. See other maintenance record for TXR testing.

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Site ID: 8000

Service Log

Site Name: West Repeater Date: 17-Jul-13 Time: 12:38
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom: Tx Freq:

Rx Freq:

Fwd Power:

Rev Power: SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Batteries 13.03 V. Alert 171.875 TX (5 watts). Alert2 TX

2 watts (short burst no way to hold tx button. Overall site and tower look in good condition. No

problems.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: ETG @ Hampden Date: 15-May-13 Time: 12:37
Service Type: OneRain Service Ca Technician: NK/MZ Status: OK

**Configuration Changes** 

Part # Location PT D 2270870 10011

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

10011

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

**Problem:** PT down

Action Taken: Out of Box Failure. Changed out PT. PT calibrated, all OK

Site Notes: PT survey notes. Stop bolt to top of riser 8'. Stop bolt to top of concrete (north of riser) 7'6"

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: ETG @ Hampden Date: 12-Nov-13 Time: 12:28

Service Type: End of Season Technician: NK/SB Status: Site Down

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

10011

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Battery Tests

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Two pint PT test passed. PT OK. TXR out, TB out. Flushed PT riser. Site down.

## MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name:ETG @ HampdenDate:03-May-13Time:11:44Service Type:InstallationTechnician:NK/MZStatus:PT Down

**Configuration Changes** 

 Part #
 Location

 TX J 36525
 10011

 TB J 34996
 10011

 PT D 3643169
 10011

 BY R 1307
 10011

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

10011

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

**Battery Tests** 

Battery # V Quiescent V Load

BY R 1307 12.98

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: Installed today. Having problems calibrating PT. TB ok and RF OK ALERT 2 TXR. Can't decode

at truck, but verified data is coming through Contrail.

Site Notes:

# MAINTENANCE RECORD URBAN DRAINAGE AND FLOOD CONTROL DISTRICT ONERAIN INCORPORATED

Service Log

Site Name: ETG @ Hampden Date: 20-Aug-13 Time: 11:32
Service Type: Inspection Technician: NK Status: OK

**Configuration Changes** 

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Site ID:

10011

Tx Maintenance

Part # Ref V Freg Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

**Battery Tests** 

Battery # V Quiescent V Load

Test Transmission

Port Time Count Measure Predicted

Problem:

Action Taken: TB clean and clear on arrival. TB received two tips. TB OK Two point PT test passed. PT OK

Site OK

Site Notes: