7117 Wild Coyote Lane, Fair Oaks Ranch, TX 78015
210-601-9712

INVOICE COVER LETTER

Monday, December 10, 2018

ATTN: Andrew Hoekzema
Director of Regional Services
Capital Area Council of Governments
6800 Burleson Road, Bldg. 310, Suite 165
Austin, TX 78744

RE: Contract #: Operation of Continuous Air Monitoring Stations 2018 / 2019
Invoice #: CAPCOG 18-017
Invoice Period of Service: 11/1/18 – 11/30/18
Total Invoice Amount: $7,753.97
Invoice Period of Service: 12/1/18 – 12/10/18
Total Invoice Amount: $735.86

This invoice is for services provided by Dios Dado Environmental Ltd. for operation and network maintenance of CAPCOG sites, as the terms set forth in the above referenced contract.

See the discussion and list of deliverables as follows:

1. November Data Return reported in attachment 1: Data Return Report for Austin -- Region 11.
   All O3 sites reporting >100% data return, with the exception of C6602 (Hutto) at 99.7, Rh units were all at 100%, with the exception of C6602 (Hutto) at 99.7. Individual RH reports are included for each site. TEOM data return from 601 is >98.5%.
2. Site activities are reported in attachment 2: CAPCOG activities log and operator's log set.
3. All units had good data that is reported to LEADS system correctly.
4. CAMS 601 and CAMS 684 were decommissioned and CAPCOG equipment was removed from these sites. Some has been returned to CAPCOG and the remainder of the equipment will delivered on 12/13/18
5. The rest of the Sites have been shut down for the 2018 ozone season.
6. CAMS 6602 (Hutto) needs bearings replaced on the MET equipment. The electrical lines to trailer will need to be redone.

Dios Dado's correct mailing address is 7117 Wild Coyote Lane, Fair Oaks Ranch, TX 78015.

Please remit payment to address above, respectfully,
Ben D. White
Senior Partner
Dios Dado Environmental Ltd.

Attachment 1: CAPCOG Data Return Report – November 2018
Austin - Region 11

00:00 LST November 1, 2018 through 00:00 LST November 15, 2018

CAMS	Location	Pollution Data			Meteorological Data			
		O3 %	PM2.5(Lcl)accpt %	Poll %	WDR %	WSR %	Out Temp %	Met %
601	Fayette County C601	100.0	98.5	99.3	100.0	100.0	100.0	100.0
614	Dripping Springs School C614	100.0	*	100.0	100.0	100.0	100.0	100.0
684	CAPCOG McKinney Roughs C684	100.0	*	100.0	100.0	100.0	100.0	100.0
690	CAPCOG Lake Georgetown C690	100.0	*	100.0	100.0	100.0	100.0	100.0
1603	Gorzycki Middle School C1603	100.0	*	100.0	100.0	100.0	100.0	100.0
1604	Lockhart C1604	100.0	*	100.0	100.0	100.0	100.0	100.0
1605	St. Edwards University C1605	100.0	*	100.0	100.0	100.0	100.0	100.0
1675	CAPCOG San Marcos Staples Road C1675	100.0	*	100.0	100.0	100.0	100.0	100.0
6602	CAPCOG Hutto College Street C6602	99.7	*	99.7	99.7	99.7	99.7	99.7
	Region 11 Averages	**100.0**	**98.5**	**99.8**	**100.0**	**100.0**	**100.0**	**100.0**

Relative Humidity – Data Return Loss for Austin -- Region 11

00:00 LST November 1, 2018 through 00:00 LST November 15, 2018
Selected date range: 14 days (336 hours)

Report includes an average of data from only these CAMS: 614 684 690 1603 1604 1605 1675 6602

Data Flag	Rel Humid 62201
Null Data Codes	
FEW => AI (Insufficient Samples)	1
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	2687
Summary	
Total Monitors	8
Total Null Data Code Flags	1
Total Ambient Flags †	2687
Total Samples	2688
Invalid Percent	0.0
Valid Percent	100.0
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Relative Humidity – Data Return Loss for Austin -- Region 11

00:00 LST November 1, 2018 through 00:00 LST November 15, 2018
Selected date range: 14 days (336 hours)

INDIVIDUAL SITES:

Report includes data from only these CAMS: 614

Data Flag	Rel Humid 62201
Null Data Codes	
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	336
Summary	
Total Monitors	1
Total Null Data Code Flags	0
Total Ambient Flags †	336
Total Samples	336
Invalid Percent	0.0
Valid Percent	100.0
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 684

Data Flag	Rel Humid 62201
Null Data Codes	
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	336
Summary	
Total Monitors	1
Total Null Data Code Flags	0
Total Ambient Flags †	336
Total Samples	336
Invalid Percent	0.0
Valid Percent	100.0
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 690

Data Flag	Rel Humid 62201
Null Data Codes	
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	336
Summary	
Total Monitors	1
Total Null Data Code Flags	0
Total Ambient Flags †	336
Total Samples	336
Invalid Percent	0.0
Valid Percent	100.0
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 1603

Data Flag	Rel Humid 62201
Null Data Codes	
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	336
Summary	
Total Monitors	1
Total Null Data Code Flags	0
Total Ambient Flags †	336
Total Samples	336
Invalid Percent	0.0
Valid Percent	100.0
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 1604

Data Flag	Rel Humid 62201
Null Data Codes	
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	336
Summary	
Total Monitors	1
Total Null Data Code Flags	0
Total Ambient Flags †	336
Total Samples	336
Invalid Percent	0.0
Valid Percent	100.0
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 1675

Data Flag	Rel Humid 62201
Null Data Codes	
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	336
Summary	
Total Monitors	1
Total Null Data Code Flags	0
Total Ambient Flags †	336
Total Samples	336
Invalid Percent	0.0
Valid Percent	100.0
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 6602

Data Flag	Rel Humid 62201
Null Data Codes	
FEW => AI (Insufficient Samples)	1
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	335
Summary	
Total Monitors	1
Total Null Data Code Flags	1
Total Ambient Flags †	335
Total Samples	336
Invalid Percent	0.3
Valid Percent	99.7
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Attachment 2: CAPCOG Site Activities Log and Operators Log set.

November 2018 CAPCOG Activity Logs:

DATE	DESCRIPTON
11/06/2018	C614 - PMI 04-14, check instrument & site
	C690 - PMI 04-14, check instrument & site
	C1603 - PMI 04-14, check instrument & site
	C6602 - PMI 04-14, check instrument & site
11/07/2018	C601 - TEOM ver & audit, PMI 04-14, check instruments & site
	C684 - PMI 04-14, check instrument & site
	C1604 - PMI 04-14, check instrument & site
11/08/2018	C1675 - PMI 04-14, check instrument & site
11/27/2018	C1603 - Shut down site & inventory
11/28/2018	C684 - Shut down site & inventory; decommission & remove all of CAPCOG equipment.
	C1675 - Shut down site & inventory
11/29/2018	C1604 - Shut down site & inventory
11/30/2018	C614 - Shut down site & inventory
	C690 - Shut down site & inventory
	C6602 - Shut down site & inventory

December 2018 CAPCOG Activity Logs:

DATE	DESCRIPTON
12/04/2018	C601 - TEOM verification and audit; shut down site and inventory; Decommission site, remove O3 monitor to return to CAPCOG.
12/13/2018	Return remaining equipment from decommissioned sites to CAPCOG.

November 2018 CAPCOG Operator Logs:

Operator Logs for Fayette County C601

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 Fayette County C601 (48_149_0001)
Thu Nov 01, 2018	07:29:45	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:48:33	jm	11/02/2018	station checked online.
Fri Nov 02, 2018	14:44:01			Status OK, Mode 4, 35% Filter Loading, 1.5 Mass, 0.055 Noise, 251.74114 Freq, N/A Total Mass, All Temps 50, Main Flow 3.00, Aux Flow 13.63 Mark Ols
Sat Nov 03, 2018	03:28:50			Automatic time sync
Mon Nov 05, 2018	08:34:33	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	04:28:49			Automatic time sync
Tue Nov 06, 2018	09:31:12	jm	11/06/2018	station checked online.
Wed Nov 07, 2018	09:31:12	jm	11/07/2018	station status checked online.
Wed Nov 07, 2018	15:11:04			Entered station to conduct monthly TEOM verification and PMIs 04-014, 41-030, 41-030a, 41-030b. station temp 76F. completed site safety checklist. TEOM status : PK, 4, 37%, 12.1, 0.056, 251.68099, na, 50, 50, 50, 3.0, 13.63. Passed. audit completed satisfactory. changed filters. placed units back in K code. left site safe and secure. JRM/NC
Thu Nov 08, 2018	08:03:43			Status: ok, Mode: 4, %filterloading: 23%, Mass: 3.8, Noise: 0.054, Frequency: 251.49903, Total Mass: N/A, Case Temp: 50.00, Air Temp: 50.00, Cap Temp: 50.00, Main Flow: 3.00, Aux Flow: 13.63 LCRA, JT/BF A[K [K/pmp: 50.00, air temp: 50.00, capMain flow: 3.00, Aux flow: 13.63 LCRA, JT/BF, 110818
Thu Nov 08, 2018	10:13:50	jm	11/08/2018	station checked online.
Fri Nov 09, 2018	19:32:07	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:28:49			Automatic time sync
Mon Nov 12, 2018	08:10:50	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:28:49			Automatic time sync
Tue Nov 13, 2018	14:00:45	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:33:04	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:09:27	jm	11/15/2018	checked station online.
Fri Nov 16, 2018	07:29:01			Status: ok, mode: 4, %filterloading: 32%, mass: 8.3, noise: 0.055, freq: 251.45349, total mass: n/a, case temp: 50.00, air temp: 50.00, cap temp: 50.00, main flow: 3.00, aux flow: 13.64
Sat Nov 17, 2018	04:28:53			Automatic time sync
Tue Nov 20, 2018	04:28:50			Automatic time sync
Wed Nov 21, 2018	10:50:51			Status: ok, Mode: 4, %filterloading: 33%, Mass:5.4, Noise: 0,061, Freq: 251.40594, Total mass: n/a, Case Temp: 50.00, Air temp: 50.00, Cap temp: 50.00, Main flow: 3.00, Aux flow: 13.63, LCRA, JT ,[Ki[K11-21-18.[D,[Da[Dt[Dp[D5[D0[D [Di[D/BF 11-21-18
Sat Nov 24, 2018	04:28:50			Automatic time sync

Tue Nov 27, 2018	04:28:50			Automatic time sync
Wed Nov 28, 2018	13:50:59			Status: ok, Mode: 4, %filterloading: 36%, Mass: 1.7, Noise: 0.052, Freq: 251.34185, Total mass: n/a, Case Temp: 50.00, Main flow: 3.00, Aux flow: 13.63, LCRA, JT, 11-28-18s

Date	Time (CST)	Log Entry
		12/01/2018 -- 01/01/2019 Fayette County C601 (48_149_0001)
Sat Dec 01, 2018	04:28:49	Automatic time sync
Tue Dec 04, 2018	04:28:50	Automatic time sync
Tue Dec 04, 2018	15:09:25	12-04-18: Entered station to conduct monthly and quarterly verifications and shut down Teom and O3 units. Placed TEOM in Q-code. Teom Pre-Status, ok 4, 37%, Temps: 50'C, 50'C, 50'C, Flows: main 3.00, Aux 13.63, noise .075, Frequency 251.30157. Post Status: Teom Pre-Status, ok 4, 23%, Temps: 50'C, 50'C, 50'C, Flows: main 2.99, Aux 13.63, noise .035, Frequency 252.77468. Completed PMI #'s: 41-030, 41-030a, 41-030b. Changed TEOM filter. FTP leak checked on 12/04/2018. Both Audits on TEOM Passed. Placed unit back in p-code and shut down unit.Shut down O3 unit and will take to CAPCOG in Austin. Made log entry and left site safe and secure. bdwhite/KO
Tue Dec 04, 2018	15:10:32	12-04-18: Entered station to conduct monthly and quarterly verifications and shut down Teom and O3 units. Placed TEOM in Q-code. Teom Pre-Status, ok 4, 37%, Temps: 50'C, 50'C, 50'C, Flows: main 3.00, Aux 13.63, noise .075, Frequency 251.30157. Post Status: Teom Pre-Status, ok 4, 23%, Temps: 50'C, 50'C, 50'C, Flows: main 2.99, Aux 13.63, noise .035, Frequency 252.77468. Completed PMI #'s: 41-030, 41-030a, 41-030b. Changed TEOM filter. FTP leak checked on 12/04/2018. Both Audits on TEOM Passed. Placed unit back in p-code and shut down unit.Shut down O3 unit and will take to CAPCOG in Austin. Made log entry and left site safe and secure. bdwhite/KO
Sat Dec 08, 2018	04:28:50	Automatic time sync

Operator Logs for Dripping Springs School C614

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 Dripping Springs School C614 (48_209_0614)
Thu Nov 01, 2018	07:29:58	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:48:41	jm	11/02/2018	station checked online.
Sat Nov 03, 2018	03:28:43			Automatic time sync
Mon Nov 05, 2018	08:34:41	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	04:28:42			Automatic time sync
Tue Nov 06, 2018	09:31:21	jm	11/06/2018	station checked online.
Tue Nov 06, 2018	12:00:39			Entered station to conduct bi-weekly maintenance, PMI- 04-014. changed particulate filter. station temp 81F. checked all perameters on ozone unit, all ok. Made log entry and left site safe and secure. NC
Wed Nov 07, 2018	09:31:24	jm	11/07/2018	station status checked online.
Thu Nov 08, 2018	10:13:43	jm	11/08/2018	station checked online.
Fri Nov 09, 2018	19:31:59	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:28:41			Automatic time sync
Mon Nov 12, 2018	08:10:57	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:28:44			Automatic time sync
Tue Nov 13, 2018	14:00:57	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:33:15	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:09:43	jm	11/15/2018	checked station online.
Sat Nov 17, 2018	04:28:44			Automatic time sync
Tue Nov 20, 2018	04:28:42			Automatic time sync
Sat Nov 24, 2018	04:28:41			Automatic time sync
Thu Nov 29, 2018	11:17:20	leadsadmin	11/29/2018	Monitor shutdown date set to 20181129,08:00 for: Ozone == 44201_1 Wind Speed == 61101_1 Resultant Wind Speed == 61103_1 Resultant Wind Direction == 61104_1 Maximum Wind Gust == 61105_1 Standard Deviation of Horizontal Wind Direction == 61106_1 Outdoor Temperature == 62101_1 Internal Station Temperature == 62107_1 Relative Humidity == 62201_1
Thu Nov 29, 2018	11:17:41	leadsadmin	11/29/2018	Monitor shutdown date set to 20180930,22:00 for: Dew Point Temperature == 62103_1

Operator Logs for CAPCOG McKinney Roughs C684

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 CAPCOG McKinney Roughs C684 (48_021_0684)
Thu Nov 01, 2018	07:30:06	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:48:50	jm	11/02/2018	station checked online.
Sat Nov 03, 2018	03:43:43			Automatic time sync
Mon Nov 05, 2018	08:34:50	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	09:31:32	jm	11/06/2018	station checked online.
Wed Nov 07, 2018	09:31:35	jm	11/07/2018	station status checked online.
Wed Nov 07, 2018	16:28:07			McKinney :Entered station to conduct bi-weekly maintenance, 04-014. changed particulate filter, checked all parameters on ozone unit, all ok. Made log entry and left site safe and secure. NC
Thu Nov 08, 2018	10:13:31	jm	11/08/2018	station checked online.
Fri Nov 09, 2018	19:31:51	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:43:39			Automatic time sync
Mon Nov 12, 2018	08:11:08	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:43:37			Automatic time sync
Tue Nov 13, 2018	14:01:09	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:33:28	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:09:56	jm	11/15/2018	checked station online.
Tue Nov 20, 2018	04:43:39			Automatic time sync
Sat Nov 24, 2018	04:43:39			Automatic time sync
Tue Nov 27, 2018	04:43:39			Automatic time sync
Wed Nov 28, 2018	12:53:46			11-28-18 Entered station to shut down site for 2018 Ozone season. Made Log Entry and took out equipment and Inventoried to take back to Capcog storage. BDW/GW
Thu Nov 29, 2018	13:22:52	leadsadmin	11/29/2018	Monitor shutdown date set to 20181128,12:00 for: Ozone == 44201_1 Wind Speed == 61101_1 Resultant Wind Speed == 61103_1

				Resultant Wind Direction == 61104_1 Maximum Wind Gust == 61105_1 Standard Deviation of Horizontal Wind Direction == 61106_1 Outdoor Temperature == 62101_1 Dew Point Temperature == 62103_1 Internal Station Temperature == 62107_1 Relative Humidity == 62201_1
Thu Nov 29, 2018	13:32:05	leadsadmin	11/29/2018	The following log entry was automatically generated by the CAMS Site Definition Editor. **The following changes were made:** CAMS Shutdown Date changed from 0 UTC to 20181128180000 UTC The previous site configuration file has been moved to /opt/data/leads/data/pdcs/pdb/sites/CAMSSITE.XML.20181129133205 The site configuration file has been updated.

Operator Logs for CAPCOG Lake Georgetown C690

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 CAPCOG Lake Georgetown C690 (48_491_0690)
Thu Nov 01, 2018	07:30:15	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:48:57	jm	11/02/2018	station checked online.
Fri Nov 02, 2018	07:48:57	jm	11/02/2018	station checked online.
Sat Nov 03, 2018	03:13:07			Automatic time sync
Mon Nov 05, 2018	08:35:02	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	04:13:08			Automatic time sync
Tue Nov 06, 2018	09:31:39	jm	11/06/2018	station checked online.
Tue Nov 06, 2018	14:29:21			Entered station to conduct bi-weekly maintenance, PMI- 04-014. changed particulate filter. station temp 78F. checked all parameters on ozone unit, all ok. Made log entry and left site safe and secure. NC
Wed Nov 07, 2018	09:31:46	jm	11/07/2018	station status checked online.
Thu Nov 08, 2018	10:13:24	jm	11/08/2018	station checked online.
Fri Nov 09, 2018	19:31:43	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:13:05			Automatic time sync
Mon Nov 12, 2018	08:11:14	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:13:08			Automatic time sync
Tue Nov 13, 2018	14:01:20	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:33:36	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:11:52	jm	11/15/2018	checked station online.
Sat Nov 17, 2018	04:13:06			Automatic time sync
Tue Nov 20, 2018	04:13:08			Automatic time sync
Sat Nov 24, 2018	04:13:08			Automatic time sync
Tue Nov 27, 2018	04:13:07			Automatic time sync
Thu Nov 29, 2018	11:39:02	leadsadmin	11/29/2018	Monitor shutdown date set to 20181129,08:00 for: Ozone == 44201_1 Wind Speed == 61101_1 Resultant Wind Speed == 61103_1 Resultant Wind Direction == 61104_1 Maximum Wind Gust == 61105_1 Standard Deviation of Horizontal Wind Direction == 61106_1 Outdoor Temperature == 62101_1 Dew Point Temperature == 62103_1 Internal Station Temperature == 62107_1 Relative Humidity == 62201_1

Operator Logs for Gorzycki Middle School C1603

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 Gorzycki Middle School C1603 (48_453_1603)
Thu Nov 01, 2018	07:30:25	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:49:04	jm	11/02/2018	station checked online.
Sat Nov 03, 2018	03:13:09			Automatic time sync
Mon Nov 05, 2018	08:35:11	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	04:13:10			Automatic time sync
Tue Nov 06, 2018	09:31:50	jm	11/06/2018	station checked online.
Tue Nov 06, 2018	13:01:00			Entered station to conduct bi-weekly maintenance, PMI-04-014. changed particulate filter, checked all parameters on ozone unit, all ok. Made log entry and left site safe and secure. NC
Wed Nov 07, 2018	09:32:05	jm	11/07/2018	station status checked online.
Wed Nov 07, 2018	09:32:05	jm	11/07/2018	station status checked online.
Thu Nov 08, 2018	10:13:15	jm	11/08/2018	station checked online.
Fri Nov 09, 2018	19:31:35	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:13:07			Automatic time sync
Mon Nov 12, 2018	08:11:22	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:13:07			Automatic time sync
Tue Nov 13, 2018	14:01:35	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:33:45	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:13:02	jm	11/15/2018	checked station online.
Sat Nov 17, 2018	04:13:07			Automatic time sync
Tue Nov 20, 2018	04:13:09			Automatic time sync
Sat Nov 24, 2018	04:13:08			Automatic time sync
Tue Nov 27, 2018	04:13:08			Automatic time sync
Thu Nov 29, 2018	11:39:26	leadsadmin	11/29/2018	Monitor shutdown date set to 20181127,15:00 for: Ozone == 44201_1 Wind Speed == 61101_1 Resultant Wind Speed == 61103_1 Resultant Wind Direction == 61104_1 Maximum Wind Gust == 61105_1 Standard Deviation of Horizontal Wind Direction == 61106_1 Outdoor Temperature == 62101_1 Internal Station Temperature == 62107_1 Relative Humidity == 62201_1

Operator Logs for Lockhart C1604

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 Lockhart C1604 (48_055_1604)
Thu Nov 01, 2018	07:30:33	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:49:09	jm	11/02/2018	station checked online.
Sat Nov 03, 2018	03:13:09			Automatic time sync
Mon Nov 05, 2018	08:35:18	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	04:13:09			Automatic time sync
Tue Nov 06, 2018	09:31:57	jm	11/06/2018	station checked online.
Wed Nov 07, 2018	09:32:16	jm	11/07/2018	station status checked online.
Wed Nov 07, 2018	17:26:30			Entered station to perform 04-014. Station temp 74F. changed particulate filter, checked all parameters on ozone unit, all ok. Made log entry and left site safe and secure. NC
Thu Nov 08, 2018	10:13:09	jm	11/08/2018	station checked online.
Fri Nov 09, 2018	19:31:26	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:13:07			Automatic time sync
Mon Nov 12, 2018	08:11:30	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:13:11			Automatic time sync
Tue Nov 13, 2018	14:01:42	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:33:51	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:13:09	jm	11/15/2018	checked station online.
Sat Nov 17, 2018	04:13:07			Automatic time sync
Tue Nov 20, 2018	04:13:09			Automatic time sync
Sat Nov 24, 2018	04:13:08			Automatic time sync
Tue Nov 27, 2018	04:13:08			Automatic time sync
Thu Nov 29, 2018	11:39:44	leadsadmin	11/29/2018	Monitor shutdown date set to 20181129,08:00 for: Ozone == 44201_1 Wind Speed == 61101_1 Resultant Wind Speed == 61103_1 Resultant Wind Direction == 61104_1 Maximum Wind Gust == 61105_1 Standard Deviation of Horizontal Wind Direction == 61106_1 Outdoor Temperature == 62101_1 Dew Point Temperature == 62103_1 Internal Station Temperature == 62107_1 Relative Humidity == 62201_1

Operator Logs for CAPCOG San Marcos Staples Road C1675

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 CAPCOG San Marcos Staples Road C1675 (48_209_1675)
Thu Nov 01, 2018	07:30:42	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:49:18	jm	11/02/2018	station checked online.
Sat Nov 03, 2018	03:43:37			Automatic time sync
Mon Nov 05, 2018	08:35:24	jm	11/05/2018	station checked online.
Mon Nov 05, 2018	08:35:24	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	09:32:06	jm	11/06/2018	station checked online.
Wed Nov 07, 2018	09:32:24	jm	11/07/2018	station status checked online.
Thu Nov 08, 2018	10:13:01	jm	11/08/2018	station checked online.
Thu Nov 08, 2018	13:00:40			Entered station to conduct bi-weekly maintenance, 04-014. station temp at 62F. changed particulate filter, checked all parameters on ozone unit, all ok. Adjusted thermostat settings. Made log entry and left site safe and secure. NC
Fri Nov 09, 2018	19:31:17	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:43:37			Automatic time sync
Mon Nov 12, 2018	08:11:38	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:43:39			Automatic time sync
Tue Nov 13, 2018	14:02:01	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:33:59	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:13:16	jm	11/15/2018	checked station online.
Sat Nov 17, 2018	04:43:38			Automatic time sync
Tue Nov 20, 2018	04:43:39			Automatic time sync
Tue Nov 27, 2018	04:43:38			Automatic time sync
Wed Nov 28, 2018	11:16:51			11-3-11 Entered station to shut down site for 2011 Ozone season.Made log entry and wrapped up all equipment till next year. BDx
Wed Nov 28, 2018	11:21:12			11-28-18 Entered station to shut down site for 2018 Ozone season.Made Log Entry and took Inventory. BDW
Thu Nov 29, 2018	11:40:06	leadsadmin	11/29/2018	Monitor shutdown date set to 20181128,10:00 for: Ozone == 44201_1 Wind Speed == 61101_1 Resultant Wind Speed == 61103_1 Resultant Wind Direction == 61104_1 Maximum Wind Gust == 61105_1 Standard Deviation of Horizontal Wind Direction == 61106_1 Outdoor Temperature == 62101_1 Dew Point Temperature == 62103_1 Internal Station Temperature == 62107_1 Relative Humidity == 62201_1

Operator Logs for CAPCOG Hutto College Street C6602

Date	Time (CST)	Operator	Visit Date	Log Entry
				11/01/2018 -- 12/01/2018 CAPCOG Hutto College Street C6602 (48_491_6602)
Thu Nov 01, 2018	07:30:53	jm	11/01/2018	station status checked online.
Fri Nov 02, 2018	07:49:27	jm	11/02/2018	station checked online.
Sat Nov 03, 2018	03:13:09			Automatic time sync
Mon Nov 05, 2018	08:35:35	jm	11/05/2018	station checked online.
Tue Nov 06, 2018	04:13:09			Automatic time sync
Tue Nov 06, 2018	09:32:16	jm	11/06/2018	station checked online.
Tue Nov 06, 2018	15:30:15			Entered station to conduct bi-weekly maintenance, PMI- 04-014. changed particulate filter. station temp 89F. checked all parameters on ozone unit, all ok. adjusted space heater setting. Made log entry and left site safe and secure. NC
Wed Nov 07, 2018	09:32:35	jm	11/07/2018	station status checked online.
Thu Nov 08, 2018	10:12:53	jm	11/08/2018	station checked online.
Fri Nov 09, 2018	19:31:07	jm	11/10/2018	Station checked online.
Sat Nov 10, 2018	04:13:08			Automatic time sync
Mon Nov 12, 2018	08:11:46	jm	11/12/2018	Station checked online.
Tue Nov 13, 2018	04:13:09			Automatic time sync
Tue Nov 13, 2018	14:02:11	jm	11/13/2018	Station checked online.
Wed Nov 14, 2018	16:34:11	jm	11/14/2018	checked station online.
Thu Nov 15, 2018	12:13:30	jm	11/15/2018	checked station online.
Sat Nov 17, 2018	04:13:06			Automatic time sync
Tue Nov 20, 2018	04:13:09			Automatic time sync
Sat Nov 24, 2018	04:13:09			Automatic time sync
Tue Nov 27, 2018	04:13:09			Automatic time sync
Thu Nov 29, 2018	11:40:57	leadsadmin	11/29/2018	Monitor shutdown date set to 20181129,08:00 for: Ozone == 44201_1 Wind Speed == 61101_1 Resultant Wind Speed == 61103_1 Resultant Wind Direction == 61104_1 Maximum Wind Gust == 61105_1 Standard Deviation of Horizontal Wind Direction == 61106_1 Outdoor Temperature == 62101_1 Dew Point Temperature == 62103_1 Internal Station Temperature == 62107_1 Relative Humidity == 62201_1

Attachment 3: CAPCOG 5 pt calibration results*.

***NO CALIBRATIONS WERE COMPLETED THIS MONTH**