INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-004947 Location: TOXL

A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
1. ☒ Replaced o-rings if damaged
2. Flow Meter Serial Number: 55260 & 40655
3. Air Supplied to Intoxilyzer® 8000 at:
   a. ☒ 5 L/min ☒ 15 L/min ☒ 30 L/min
4. ☒ Flow Rate Calibration Printout Attached
   a. ☒ Correlation ≥ 0.99000
5. ☒ Flow Sensor Calibration Verification (Level 3,D,F)
   a. 10 L/min: 0. 164 L/S X 60 Sec/min = 9.84 L/min
   b. 20 L/min: 0. 324 L/S X 60 Sec/min = 19.44 L/min
   c. ☒ Flow Rates within ± 1 L/min of Expected Value

B. Gas Tank Sensor Check (Level 3,D,G)
1. Display: 687 psi Regulator: 700 psi
2. ☒ Display and Regulator within 50 psi
3. ☒ Completed tare of tank sensor if needed (Level 3,M,C,G)

C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
1. ☒ Autocalibration Printout Attached
   a. ☒ Max Power Res Value ≥ 10
   b. ☒ Auto Range Res Value ≥ 4
2. Simulator Solutions for Optical Bench Calibration Adjustment
   a. ☒ Set # Solutions to Run at 5

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000 (ACTUAL)	NA – MilliQ H_2O	NA – MilliQ H_2O	DR7111
2	0.040	20060	2·10·22	DR7347
3	0.080	19100	3·26·21	DR5114
4	0.150	20150	3·16·22	DR5131
5	0.300 (0.298)	20030	1·21·22	DR7346

3. 0.100 AC Calibration Gas for H2O Adjustment
   a. Lot No. 13518100 A3 Cyl No. 6 Exp. Date: 8·5·20
4. Atmospheric Pressure
   a. 921 mbar Displayed by Intoxilyzer® 8000
   b. 946 mbar Adjusted to using barometer
   c. 945 mbar on Auto Calibration Report printout
5. ☒ Screen displayed "Calibration Success"

OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION
Toxicology Section/Breath Alcohol Program
Intoxilyzer® 8000 Calibration Adjustment

BrW-008

6. ☒ Calibration Adjustment Printout Attached
   a. ☒ Solution 1 Avg % Abs ≤ 0.2500
   b. ☒ Solution 2-5 REL STD DEV ≤ 3.000
   c. ☒ Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3 μm and 9 μm channels
   d. ☒ Dry Gas H2O Adjustment Sum for 3 μm and 9 μm channels within ± 10

	Average		H_2O Adjust		
3 μm	4266	+	495	=	4761
9 μm	4226	+	535	=	4761

7. ☒ Optical Bench Calibration Verification (Level 1, S and C)
   a. Wet Calibration Check
      i. Low AC Known Value ≤ 0.03 AC: 0.020 AC
      Sim. SN: MP3061 Lot No.: 201810D Exp. Date: 10.24.20
      ii. High AC Known Value ≥ 0.25 AC: 0.250 AC
      Sim. SN: MP3067 Lot No.: 201911B Exp. Date: 11.5.21
   b. Dry Calibration Check: Known Value 0.08 AC
      Lot No. 13518080 A6 Cyl No. 33 Exp. Date: 8.5.20

Test 1	0.080 AC	Test 4	0.080 AC	Test 7	0.080 AC
Test 2	0.079 AC	Test 5	0.081 AC	Test 8	0.080 AC
Test 3	0.080 AC	Test 6	0.081 AC	Test 9	0.081 AC

      Average 0.080 AC

   c. ☒ Wet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or ± 5% (whichever is greater) of stated value.

D. Remarks/Maintenance: ATMOSPHERIC SENSOR READING 921 mbar WHEN ACTUAL ATMOSPHERIC PRESSURE IS 946 mbar. REPLACED SIMULATOR RETURN O-RING.

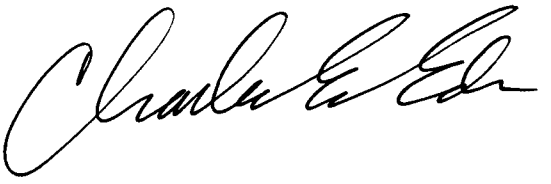
☒ Instrument is acceptable to be used in the field.

Breath Analyst Signature — Date: 4/7/2020

Reviewed by: NA — Date: NA

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004947
Location = TOXL 8164.14.00 09/16
04/07/2020 13:55
Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 7.000
2: Rate (Liters/min) = 15
SQRT(Diff)) = 12.648
3: Rate (Liters/min) = 30
SQRT(Diff)) = 22.691
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 618
Rounded Intercept = -565524
Correlation = 0.99897



TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004947
04/07/2020 14:01:13

Auto Calibration

	<<<<< 3um >>>>>		<<<<< 9um >>>>>	
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.0970	(0.0120)	0.2270	(-0.0080)
Sample #2	0.0890	(0.0750)	0.1990	(0.0200)
Sample #3	0.0870	(0.1090)	0.1950	(0.0500)
Sample #4	0.0670	(0.1370)	0.1940	(0.0510)
Avg % Abs	0.0810	(0.1070)	0.1960	(0.0403)
STD DEV	0.0122	(0.0310)	0.0026	(0.0176)
REL STD DEV	15.019	(29.017)	1.350	(43.677)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.8340	(-0.0080)	1.6150	(-0.0150)
Sample #2	0.8180	(0.0130)	1.5900	(-0.0020)
Sample #3	0.8100	(0.0230)	1.6160	(-0.0030)
Sample #4	0.8210	(0.0280)	1.6040	(0.0010)
Avg % Abs	0.8163	(0.0213)	1.6033	(-0.0013)
STD DEV	0.0057	(0.0076)	0.0130	(0.0021)
REL STD DEV	0.697	(35.801)	0.812	(156.125)
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.5470	(0.0000)	2.9890	(0.0250)
Sample #2	1.5420	(0.0050)	2.9890	(0.0330)
Sample #3	1.5370	(0.0130)	2.9960	(0.0340)
Sample #4	1.5210	(0.0210)	2.9770	(0.0450)
Avg % Abs	1.5333	(0.0130)	2.9873	(0.0373)
STD DEV	0.0110	(0.0080)	0.0096	(0.0067)
REL STD DEV	0.715	(61.538)	0.322	(17.835)
Solution = 0.150 g/210L or 0.7143 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	2.7660	(-0.0180)	5.3110	(0.0060)
Sample #2	2.7580	(-0.0100)	5.3110	(0.0330)
Sample #3	2.7600	(-0.0020)	5.3200	(0.0270)
Sample #4	2.7670	(-0.0040)	5.3220	(0.0250)
Avg % Abs	2.7617	(-0.0053)	5.3177	(0.0283)
STD DEV	0.0047	(0.0042)	0.0059	(0.0042)
REL STD DEV	0.171	(78.062)	0.110	(14.694)
Solution = 0.298 g/210L or 1.4190 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.3450	(-0.0080)	10.0160	(-0.0190)
Sample #2	5.3330	(0.0200)	10.0310	(-0.0060)
Sample #3	5.3150	(0.0240)	9.9970	(0.0190)
Sample #4	5.3050	(0.0240)	9.9720	(0.0020)
Avg % Abs	5.3177	(0.0227)	10.0000	(0.0050)
STD DEV	0.0142	(0.0023)	0.0296	(0.0128)
REL STD DEV	0.267	(10.189)	0.296	(255.343)

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004947
04/07/2020 14:01:13

Auto Calibration

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Zero Order Coef	-223.71	-261.51
First Order Coef	2608.22	1330.81
Second Order Coef	19.36	11.44

Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	-0.000	0.0003	0.000	-0.000	0.0000
0.040	0.040	-0.0003	0.040	0.040	0.0001
0.080	0.080	-0.0002	0.080	0.080	-0.0001
0.150	0.150	0.0003	0.150	0.150	0.0001
0.298	0.298	-0.0001	0.298	0.298	-0.0000

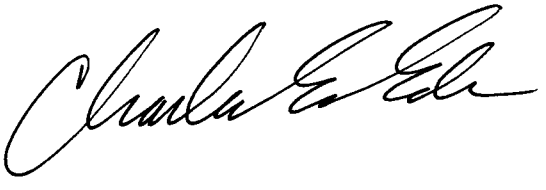
	<<<<< 3um >>>>>	<<<<< 9um >>>>>

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1

Sample		
Sample #1	4257.00	4191.00
Sample #2	4261.00	4231.00
Sample #3	4265.00	4247.00
Sample #4	4272.00	4200.00
Avg	4266.0000	4226.0000
STD DEV	5.5678	23.8956
REL STD DEV	0.131	0.565
H2O adjust (mg/l*10k)	495	535

Atmospheric Pressure = 945

**********CALIBRATION SUCCESSFUL**********



TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004947
04/07/2020 14:01:13

Auto Calibration
Max Power Res Value = 36
Auto Range Res Value = 19

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004947
Location = TOXL — 8164.14.00 09/16
04/07/2020 — 14:44

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:45
02 Std. Sol.	0.019	14:45
03 Room Air	0.000	14:46
04 Std. Sol.	0.019	14:47
05 Room Air	0.000	14:47
06 Std. Sol.	0.020	14:48
07 Room Air	0.000	14:48

08 Sim Temp = 34.0°C

Simul Ser No = MP3061
Std Sol No = 201810D
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: LOW AC
0.020 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004947
Location = TOXL 8164.14.00 09/16
04/07/2020 14:49

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:50
02 Std. Sol.	0.250	14:50
03 Room Air	0.000	14:51
04 Std. Sol.	0.253	14:52
05 Room Air	0.000	14:52
06 Std. Sol.	0.252	14:53
07 Room Air	0.000	14:54

08 Sim Temp = 34.0°C

Simul Ser No = MP3067
Std Sol No = 201911B
County = 08 Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: HIGH AC
0.250 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004947
Location = TOXL — 8164.14.00 09/16
04/07/2020 — 14:56

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:57
02 Std. Gas	0.080	14:57
03 Room Air	0.000	14:58
04 Std. Gas	0.079	14:58
05 Room Air	0.000	14:59
06 Std. Gas	0.080	14:59
07 Room Air	0.000	14:59

Lot No = 13518080A6
Cyl No = 33
Exp Date = 08/05/2020
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004947
Location = TOXL — 8164.14.00 09/16
04/07/2020 — 15:00

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:01
02 Std. Gas	0.080	15:01
03 Room Air	0.000	15:02
04 Std. Gas	0.081	15:02
05 Room Air	0.000	15:02
06 Std. Gas	0.081	15:03
07 Room Air	0.000	15:03

Lot No = 13518080A6
Cyl No = 33
Exp Date = 08/05/2020
County = 08 — Oper No. = 666666

Charles E Eder

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004947
Location = TOXL — 8164.14.00 09/16
04/07/2020 — 15:04

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:04
02 Std. Gas	0.080	15:04
03 Room Air	0.000	15:05
04 Std. Gas	0.080	15:05
05 Room Air	0.000	15:06
06 Std. Gas	0.081	15:06
07 Room Air	0.000	15:07

Lot No = 13518080A6
Cyl No = 33
Exp Date = 08/05/2020
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000