

Appendix B

Field Instrument Calibration Logs

- Summer 2005
- Spring 2006
- Summer 2006
- Winter 2006

Instrument Calibration Log

Summer 2005



Date: 8-14-05

FIELD INSTRUMENT CALIBRATION LOG

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19. 32°C - 8/16/05
19. 44°C - 8/16/05

ARCADIS Project Name: CadmusInc/Assessment of Terrebonne Basin

Project Number: PN006104 20001 | A300

Field Calibration by:

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FIELD INSTRUMENT CALIBRATION LOG

Date: 01/10/05

ARCADIS Project Name: Cadmus Inc/Assessment of Terrebonne Basin

Field Calibration by: KWM

Project Number: RN006104.0001.LA002

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YHF	6620		4.00 s.u.		
				1645	7.00 s.u.	7.10
				1632	10.00 s.u.	10.14
					4.00 s.u.	
				1655	7.00 s.u.	7.37
				1600	10.00 s.u.	10.43
					4.00 s.u.	
					7.00 s.u.	
					10.00 s.u.	
				8111/05	1-3000 µmhos/cm	9.65
					5,000 µmhos/cm	
				8119/05	1-20,000 µmhos/cm	6.22
					30,000 µmhos/cm	
Conductivity Meter		6626			5,000 µmhos/cm	
					30,000 µmhos/cm	
					3,000 µmhos/cm	
					5,000 µmhos/cm	
					30,000 µmhos/cm	
Dissolved Oxygen	II	1020	1640	750 mm Hg	105.7%	9.96
Calibrate to Water-Saturated Air			1610	761.1 mm Hg	121.3%	11.05 mg/L
Turbidimeter	II	1020	8140/05	mm Hg	800 NTU	801.3
			8140/05	1100	850 NTU	802.2
ORP					150 mV	
					150 mV	
					150 mV	



Date: 8(14) Oct

FIELD INSTRUMENT CALIBRATION LOG

ABCADIS Project Name:

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Project Number: **RN006104.0001.LA002**

Instrument Source: **ASTX Custom Job & Setup**

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSG	6120	6-14-00	4.00 s.u.	2.03	
			6-15-00	7.00 s.u.	10.00	
			6-15-00	10.00 s.u.	10.00	
	JD 011 AB	61005		4.00 s.u.		
		61005	6-15-00	7.00 s.u.	7.07	
		61005	6-15-00	10.00 s.u.	10.08	
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter	YSG	614105	6-14-00	1.8,000 $\mu\text{mhos/cm}$	0.92	
			6-15-00	5,000 $\mu\text{mhos/cm}$		
			6-15-00	30,000 $\mu\text{mhos/cm}$	0.43	
			6-15-00	18,000 $\mu\text{mhos/cm}$		
			6-15-00	5,000 $\mu\text{mhos/cm}$		
			6-15-00	30,000 $\mu\text{mhos/cm}$		
			6-15-00	3,000 $\mu\text{mhos/cm}$		
			6-15-00	5,000 $\mu\text{mhos/cm}$		
			6-15-00	30,000 $\mu\text{mhos/cm}$		
Dissolved Oxygen Calibrate to Water-Saturated Air	Y	614105	6-15-00	17C5	10.9 mm Hg	50.9 % / 5.00 mg/l
		614105	6-15-00	76.1	1 mm Hg	57.6 % / 5.00 mg/l
Turbidimeter	Y	614105	6-15-00	1210	NTU	88.7
		614105	6-15-00	1035	NTU	90.0
		614105	6-15-00	600	NTU	
ORP				150 MV		150 MV
						150 MV



Taylor
Tulane

FIELD INSTRUMENT CALIBRATION LOG

Date: 8/14/05

ARCADIS Project Name:

Cadmus Inc/Assessment of Terrebonne Basin

Field Calibration by: Klimm

Project Number: RN006104.0001.LA002

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	WTW	8114105	1715	4.00 s.u.	7.00	
		8114105	1720	7.00 s.u.	10.00	
		8114105	1645	4.00 s.u.		
		8114105	1645	7.00 s.u.	6.00	
		8114105	1645	10.00 s.u.	10.13	
		8114105	1725	4.00 s.u.		
		8114105	1725	7.00 s.u.	7.00	
		8114105	1725	10.00 s.u.	10.30	
		8114105	1650	3,000 µmhos/cm	3,000	
		8114105	1650	5,000 µmhos/cm	5,000	
		8114105	1650	30,000 µmhos/cm	30,000	
Conductivity Meter	"	"	1041	3,000 µmhos/cm	3,000	
		"	1041	5,000 µmhos/cm	5,000	
		"	1041	30,000 µmhos/cm	30,000	
Dissolved Oxygen	"	11	8/14/05	1930	1 mm Hg	13.0%
Calibrate to Water-Saturated Air		11	8/19/05	1655	1 mm Hg	91.8%
Turbidimeter	"	11	8/14/05	1715	NTU	733
		11	8/14/05	1658	NTU	369
ORP					150 mV	
					150 mV	
					150 mV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 8/14/05

ARCADIS Project Name: Cadmus Inc/Assessment of Terrebonne Basin

Field Calibration by: KW

Project Number: RN008104.0001.LA002

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter		814105		4.00 s.u.		
		814105		7.00 s.u.		
		814105		10.00 s.u.		
		814105		4.00 s.u.		
		814105		7.00 s.u.		
		814105		10.00 s.u.		
		814105		4.00 s.u.		
		814105		7.00 s.u.		
		814105		10.00 s.u.		
Conductivity Meter		814105		1,000 μ mhos/cm	1,000 μ mhos/cm	
		814105		5,000 μ mhos/cm	5,000 μ mhos/cm	
		814105		30,000 μ mhos/cm	30,000 μ mhos/cm	
		814105		13,000 μ mhos/cm	13,000 μ mhos/cm	
		814105		5,000 μ mhos/cm	5,000 μ mhos/cm	
Dissolved Oxygen		814105		30,000 μ mhos/cm	30,000 μ mhos/cm	
Calibrate to Water-Saturated Air		814105		3,000 μ mhos/cm	3,000 μ mhos/cm	
Turbidimeter		814105		5,000 μ mhos/cm	5,000 μ mhos/cm	
ORP				30,000 μ mhos/cm	30,000 μ mhos/cm	
				mm Hg	mm Hg	
				mm Hg	mm Hg	
				800 NTU	800 NTU	
				600 NTU	600 NTU	
				NTU	NTU	
				150 mV	150 mV	
				150 mV	150 mV	
				150 mV	150 mV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 8/23

ARCADIS Project Name: Terrebonne
Field Calibration by: K.M.

Project Number:

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MARCH 1960

ATTAX

Instrument Source

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6920 97F0907A6	8/23	4.00 s.u.	7.00	
				7.00 s.u.	10.00	
				10.00 s.u.	10.00	
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter				1,000 $\mu\text{mhos/cm}$	1000	24.67 °C
				5,000 $\mu\text{mhos/cm}$		
				30,000 $\mu\text{mhos/cm}$		
				3,000 $\mu\text{mhos/cm}$		
				5,000 $\mu\text{mhos/cm}$		
				30,000 $\mu\text{mhos/cm}$		
				3,000 $\mu\text{mhos/cm}$		
				5,000 $\mu\text{mhos/cm}$		
				30,000 $\mu\text{mhos/cm}$		
Dissolved Oxygen				762, 3 mm Hg	100%	
Calibrate to Water-Saturated Air				mm Hg	mm Hg	
Turbidimeter				0 NTU	0.00	
				800 NTU	7.98	
ORP				150 mV	150 mV	
				150 mV	150 mV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 8/23

ARCADIS Project Name: Terrabonde

Field Calibration by: Km

Project Number: RN006104.1.LA002

Instrument Source

AJAX

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6920	8/23	4.00 s.u.		
		06K0483AE		7.00 s.u.	7.00	
				10.00 s.u.	10.00	
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				1.000 µmhos/cm	1000.	@ 22.74
				5.000 µmhos/cm		
Conductivity Meter	//	//		30.000 µmhos/cm		
				3.000 µmhos/cm		
				5.000 µmhos/cm		
				30.000 µmhos/cm		
				3.000 µmhos/cm		
				5.000 µmhos/cm		
				30.000 µmhos/cm		
Dissolved Oxygen	//	//		25.2 mm Hg	100%	
Calibrate to Water-Saturated Air	//	//		mm Hg		
Turbidimeter	//	//		NTU	024	
				NTU	800	
ORP				NTU	801	
					150 MV	
					150 MV	
					150 MV	



FIELD INSTRUMENT CALIBRATION LOG

Date: Jan/23

ARCADIS Project Name:

Terrebonne

Field Calibration by:

RN 006104 : 1.6 AND 2

ATAX

Project Number:

Instrument Source

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6920	8/23	4.00 s.u.	7.00	
		E0728A1		7.00 s.u.	10.00	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter				1,000 $\mu\text{mhos/cm}$	1,000	26.38 °C
				5,000 $\mu\text{mhos/cm}$		
				30,000 $\mu\text{mhos/cm}$		
				3,000 $\mu\text{mhos/cm}$		
				5,000 $\mu\text{mhos/cm}$		
				30,000 $\mu\text{mhos/cm}$		
				3,000 $\mu\text{mhos/cm}$		
				5,000 $\mu\text{mhos/cm}$		
Dissolved Oxygen				3 mm Hg	100 %	
Calibrate to Water-Saturated Air				mm Hg		
Turbidimeter				NTU	0.10	
				800 NTU	7.96	
				NTU		
ORP				150 MV	150 MV	
				150 MV	150 MV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 8/23/05

ARCADIS Project Name: Terrebonne

Field Calibration by: Km

Project Number: RN 006104.1. LA 002

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6920 98H1325RS	4.00 s.u. 7.00 s.u. 10.00 s.u.	4.00 s.u. 7.00 s.u. 10.00 s.u.	7.00 10.00	
Conductivity Meter				1,000 µmhos/cm 5,000 µmhos/cm 30,000 µmhos/cm 3,000 µmhos/cm 5,000 umhos/cm 30,000 umhos/cm 3,000 umhos/cm 5,000 umhos/cm 30,000 umhos/cm	1,000 5,000 30,000 3,000 5,000 30,000 3,000 5,000 30,000	Temp 22.09°C
Dissolved Oxygen			11	11	100%	
Calibrate to Water-Saturated Air				mm Hg	762.0 mm Hg	7.88 mg/l
Turbidimeter			11	NTU	0.24	
ORP				NTU	794	
				NTU	150 MV	
				NTU	150 MV	
				NTU	150 MV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 8/23

ARCADIS Project Name: Territory

Project Number: RN0061041.L4002

Field Calibration by: Km

Instrument Source: ATAX

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	Y55	6920	8/23	4.00 s.u.	7.00	2
		J0991AB		7.00 s.u.	7.00	
				10.00 s.u.	10.00	
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				1.000 µmhos/cm	1041 spcl	Temp 22.09 °C
				5.000 µmhos/cm		
Conductivity Meter				30.000 µmhos/cm		
				3.000 µmhos/cm		
				5.000 µmhos/cm		
				30.000 µmhos/cm		
				3.000 µmhos/cm		
				5.000 µmhos/cm		
				30.000 µmhos/cm		
Dissolved Oxygen				762.3 mm Hg	100%	
Calibrate to Water-Saturated Air				mm Hg		
Turbidimeter				0 NTU	0.00	
				300 NTU	370.1	
ORP				NTU		
				150 mV		
				150 mV		
				150 mV		



FIELD INSTRUMENT CALIBRATION LOG

$$\text{Temp} = 19.82 \rightarrow 8 / 17 / 05$$

Date:	ARCADIS Project Name:	CadmusInc/Assessment of Terrebonne Basin	Project Number:	RN006104.0001.LA002				
Field Calibration by:	Instrument Source	Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
		pH Meter	YSI 6920 BN.	3/19/05	4.00 s.u. 7.00 s.u. 10.00 s.u. 4.00 s.u.	6.97 10.15		
			DO K0483AE	3/19/05	7.00 s.u. 10.00 s.u. 4.00 s.u. 7.00 s.u. 10.00 s.u.	7.01 10.05		
		Conductivity Meter		11	4,000 µmhos/cm 5,000 µmhos/cm 30,000 µmhos/cm 1,000 µmhos/cm 5,000 umhos/cm 30,000 umhos/cm 3,000 µmhos/cm 5,000 µmhos/cm 30,000 µmhos/cm	952 948		
		Dissolved Oxygen		8/14	762 mm Hg mm Hg	100.3	88 mg/L	
		Calibrate to Water-Saturated Air		8/19	762.6 mm Hg	101.3	92.5 mg/L	
		Turbidimeter		8/14	800 NTU	793.1	NTU	
		ORP		8/19	800 NTU	791.5	150 mV	150 mV
				11				



ARCADIS

Date:

ARCADIS Project Name:

FIELD INSTRUMENT CALIBRATION LOG

Temp 19.95 8/14/05
 Temp 19.84 8/19/05

Field Calibration by:

Project Number:

Instrument Source:

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	YSI 6200	8/14	4.00 s.u.			
			7.00 s.u.	7.00	7.00	
			10.00 s.u.	10.09	10.09	
		8/19	4.00 s.u.			
			7.00 s.u.	7.07	7.07	
			10.00 s.u.	10.18	10.18	
			4.00 s.u.			
			7.00 s.u.			
			10.00 s.u.			
		8/14	1,000 $\mu\text{mhos/cm}$	916.	916.	
			5,000 $\mu\text{mhos/cm}$			
			30,000 $\mu\text{mhos/cm}$			
Conductivity Meter	11	8/19	1,000 $\mu\text{mhos/cm}$	905	905	
			5,000 $\mu\text{mhos/cm}$			
			30,000 $\mu\text{mhos/cm}$			
			3,000 $\mu\text{mhos/cm}$			
			5,000 $\mu\text{mhos/cm}$			
			30,000 $\mu\text{mhos/cm}$			
Dissolved Oxygen	8/14	762.4 mm Hg	103.6	9.21 mg/l		
Calibrate to Water-Saturated Air			mm Hg			
Turbidimeter	11	8/19	762.6 mm Hg	104.2	9.30 mg/l	
			NTU	7.6	NTU	
ORP	11	8/19	800 mV	150 mV	150 mV	
			NTU			
			150 mV			



FIELD INSTRUMENT CALIBRATION LOG

8/14/05 19.95 °C
8/19/05 19.84 °C

Date: _____

ARCADIS Project Name: _____

Project Number: _____

Field Calibration by: _____

Instrument Source: _____

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Standard Reading	Calibrated Reading	Remarks
pH Meter	YTI, 6600	8/14	4.00 s.u.	6.93	10.21	10.21	
			7.00 s.u.	10.00 s.u.	10.00	10.00	
		9/19	4.00 s.u.	6.95	10.34	10.34	
			7.00 s.u.	10.00 s.u.	10.00	10.00	
			4.00 s.u.	7.00 s.u.	7.00	7.00	
			7.00 s.u.	10.00 s.u.	10.00	10.00	
			10.00 s.u.	10.00 s.u.	10.00	10.00	
Conductivity Meter	11	8/14	1,000 µmhos/cm	1035	1,000	1,000	
			5,000 µmhos/cm		30,000	30,000	
		8/17	1,000 µmhos/cm	1041	5,000	5,000	
			10,000 µmhos/cm		30,000	30,000	
			3,000 µmhos/cm		5,000	5,000	
Dissolved Oxygen	11	8/14	762.4 mm Hg	100.2	mm Hg	mm Hg	
Calibrate to Water-Saturated Air		8/15	762.6 mm Hg	100.4			
Turbidimeter	11	8/14	800 NTU	825.3	NTU	NTU	
ORP		8/19	800 NTU	836.2	150 MV	150 MV	
					150 MV	150 MV	



FIELD INSTRUMENT CALIBRATION LOG

Date: _____
 ARCADIS Project Name: _____

8/14/05 19.94°C
 8/19/05 19.85°C

Field Calibration by: _____

Project Number: _____

Instrument Source: _____

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	16920	8/14	4.00 s.u.	6.96	
		AN830	8/19	7.00 s.u.	9.81	
				10.00 s.u.	10.00	
				4.00 s.u.	4.00	
				7.00 s.u.	7.00	
				10.00 s.u.	10.00	
				4.00 s.u.	4.00	
				7.00 s.u.	7.00	
				10.00 s.u.	10.00	
				1000 µmhos/cm	9.16	
				5,000 µmhos/cm		
				30,000 µmhos/cm		
Conductivity Meter			8/14	1,000 µmhos/cm	9.20	
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
Dissolved Oxygen			8/14	762.3 mm Hg	99.3	
Calibrate to Water-Saturated Air			8/19	762.5 mm Hg	100.4	
Turbidimeter			8/14	800 NTU	882.3	
ORP			8/19	800 mV	889.1	
				150 mV		
				150 mV		
				150 mV		



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FIELD INSTRUMENT CALIBRATION LOG

8/14/05 19.94 °C
8/19/05 19.85 °C

ARCADIS Project Name:
Date:

Project Number:

Field Calibration by:

Instrument Source

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	YSI 6600 99G1146	8/14	4.00 s.u.	7.06	
				7.00 s.u.	10.10	
				10.00 s.u.	4.00 s.u.	
				10.00 s.u.	7.10	
				10.00 s.u.	10.06	
				4.00 s.u.	4.00 s.u.	
				7.00 s.u.	7.00 s.u.	
				10.00 s.u.	10.00 s.u.	
				1,000 μ mhos/cm	954	
				5,000 μ mhos/cm		
				30,000 μ mhos/cm	938	
				1,000 μ mhos/cm		
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
Dissolved Oxygen	11	11	8/14	762.2 mm Hg	102.5 mm Hg	
Calibrate to Water-Saturated Air			8/14	762.4 mm Hg	109.3 mm Hg	
Turbidimeter	11	11	8/14	800 NTU	793.2 NTU	
ORP			8/14	800 NTU	785.6 NTU	
				150 mV	150 mV	
				150 mV	150 mV	

Instrument Calibration Log

Spring 2006



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/ 23 /06

ARCADIS Project Name: Cadmus

Field Calibration by: KWM /FRC

Project Number: RN006104.00001.LA002

Instrument Source: YSI 6920 SW 6545

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
PH Meter	YSI	6920	15'33	4.00 s.u.	3.97	
				7.00 s.u.	7.05	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				3,000 μ mhos/cm	14/3	
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
Dissolved Oxygen Calibrate to Water-Saturated Air			19:30	762.5 mm Hg	97.2%	7.75 mg/L
Turbidimeter				mm Hg	mm Hg	
ORP				0 = 102 NTU	NTU	
				150 MV	150 MV	
				150 MV	150 MV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/25/06

ARCADIS Project Name: Cadmus

Field Calibration by: KHM/FRC

Project Number: RN006104.0001.LA002

Instrument Source: YS1 6920 PNE SN 1593

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6920		4.00 s.u.	3.80	
				7.00 s.u.	6.93	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
TTH				3,000 μ mhos/cm	443	
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
Conductivity Meter				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 μ mhos/cm		
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
Dissolved Oxygen	3:45	762.1	mm Hg	110.1%	9.67 mg/L	
Calibrate to Water-Saturated Air			mm Hg	mm Hg		
Turbidimeter			mm Hg	mm Hg		
ORP			NTU	NTU		
			150 MV	150 MV		
			150 MV	150 MV		



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/ 23 /06

ARCADIS Project Name: Cadmus

Field Calibration by:

Project Number: RN006104.0001.LA002

Instrument Source

PINE, NV 5/26

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter				4.00 s.u.	3.96	
				7.00 s.u.	7.07	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter				3,000 μ mhos/cm	256	
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 μ mhos/cm		
Dissolved Oxygen				30,000 μ mhos/cm		
Calibrate to Water-Saturated Air				762.0 mm Hg	93.1%	7.78 mg/L
Turbidimeter				mm Hg	mm Hg	
ORP				28.	NTU	
				121.9	NTU	
					NTU	
					150 MV	
					150 MV	
					150 MV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/23/06

ARCADIS Project Name: Cadmus

Field Calibration by: LWM/FRC

Project Number: RN006104.0001.LA002

Instrument Source:

101NE SN# 2676

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter				4.00 s.u.	4.02	
				7.00 s.u.	7.14	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				3,000 µmhos/cm	/223	
				5,000 µmhos/cm		
				30,000 µmhos/cm		
				3,000 µmhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 µmhos/cm		
				5,000 µmhos/cm		
				30,000 umhos/cm		
Dissolved Oxygen				761.7 mm Hg	761.7	
Calibrate to Water-Saturated Air				mm Hg	mm Hg	
Turbidimeter				mm Hg	mm Hg	
ORP				24.1 NTU	24.1 NTU	
				122.3 NTU	122.3 NTU	
				150 MV	150 MV	
				150 MV	150 MV	



HNCADS

Date: 04/23/06

FIELD INSTRUMENT CALIBRATION LOG

ARCADIS Project Name: Cadmus

ARCADIS Project Name:	Cadmus
Field Calibration by:	lkm /frc
Type of Instrument	Manufacturer
pH Meter	YS

Project Number: BN006104 00001 | A002



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/23 /06

ARCADIS Project Name:

Cadmus

Field Calibration by: KWM /HLC

Project Number: RN006104.0001_LA002

Instrument Source

PINE SW# 6398

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	XSI	6920		4.00 s.u.	4.11	
				7.00 s.u.	7.09	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				3,000 μ mhos/cm	/ 122	
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
Dissolved Oxygen				761.6 mm Hg	42 %	3.68 mg/L
Calibrate to Water-Saturated Air					mm Hg	
Turbidimeter				22.3 NTU	NTU	NTU
ORP					150 mV	
					150 mV	
					150 mV	



ARCADIS

Date: 04/22/06

FIELD INSTRUMENT CALIBRATION LOG

ARCADIS Project Name:

Cadmus

Field Calibration by: L.C.

Project Number: RN006104.0001_LA002

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	L.S.I.	6900	11:03	4.00 s.u.	4.08	
		c104165FA	11:03	7.00 s.u.	7.04	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter			11:03	1413.3000 μ mhos/cm	1463	
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
Dissolved Oxygen			11:03	776.7 mm Hg	101.2 %	8.88 mg/l
Calibrate to Water-Saturated Air				mm Hg	mm Hg	
Turbidimeter			11:03	NTU	0.2 NTU	NTU
ORP				NTU	NTU	
					150 mV	
					150 mV	
					150 mV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/ 28 /06

ARCADIS Project Name:

Cadmus

Field Calibration by: J.C ARN

Project Number: RN006104.0001_LA002

Instrument Source: Pipe # 5126

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	(15)	6920	1122 1122	4.00 s.u. 7.00 s.u.	4.23 7.07	
		0201251A67		10.00 s.u. 4.00 s.u. 7.00 s.u.		
				10.00 s.u. 4.00 s.u. 7.00 s.u.		
				10.00 s.u.		
Conductivity Meter			1122	14133.060 $\mu\text{mhos/cm}$	1378	
				5,000 $\mu\text{mhos/cm}$		
				30,000 $\mu\text{mhos/cm}$		
				3,000 $\mu\text{mhos/cm}$		
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
Dissolved Oxygen			1122	776.6 mm Hg	1011.7 % _o	9.16 mg/L
Calibrate to Water-Saturated Air				mm Hg		
Turbidimeter			1122	0.0 NTU	0.2 NTU	NTU
ORP					150 MV	
					150 MV	
					150 MV	



ARCADIS

Date: 04/ 28 /06

ARCADIS Project Name: Cadmus

Field Calibration by: J CARL

FIELD INSTRUMENT CALIBRATION LOG

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	451	6920	1131	4.00 s.u.	4.00	9.09
			1131	7.00 s.u.	7.00	7.02
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter			1131	14133-0000 umhos/cm	1434	
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
Dissolved Oxygen			1131	777.0 mm Hg	102.6	8.99 mg/l
Calibrate to Water-Saturated Air				mm Hg		
Turbidimeter			1131	0.0 NTU	0.0	NTU
ORP					150 mV	
					150 mV	
					150 mV	

Project Number: RN006104.0001.LA002

Instrument Source: Pin # 1739



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/ 26 /06

ARCADIS Project Name: Cadmus

Field Calibration by: J CAR

Project Number: RNO06104.0001.LA002

Instrument Source: Pinc # 3351

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	VSI	6720	1151	4.00 s.u.	4.23	
			1151	7.00 s.u.	7.00	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter			1151	1433-0000 µmhos/cm	1421	
				5,000 µmhos/cm		
				30,000 µmhos/cm		
				3,000 µmhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
Dissolved Oxygen			1151	776.7 mm Hg	100.6 %	C. Et rig/L
Calibrate to Water-Saturated Air				mm Hg	mm Hg	
Turbidimeter			1151	0.0 NTU	1.0 NTU	NTU
ORP					150 MV	150 MV
						150 MV



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/26/06

ARCADIS Project Name: Cadmus

Field Calibration by: JCA/RM

Project Number: RNC006104.0001.LA002

Instrument Source: Pipe # 16011

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	U.S.I.	6920	12:06	4.00 s.u.	4.16	
			12:06	7.00 s.u.	7.02	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
Conductivity Meter	I.I.		12:06	1413 3,000 μ mhos/cm	1341	
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 umhos/cm		
				30,000 μ mhos/cm		
				3,000 μ mhos/cm		
				5,000 μ mhos/cm		
				30,000 μ mhos/cm		
Dissolved Oxygen	I.I.		12:06	776.4 mm Hg	776.4	108.5 % 9.55 mg/L
Calibrate to Water-Saturated Air				mm Hg	mm Hg	
Turbidimeter	~		12:06	0.0 NTU	1.6 NTU	NTU
ORP					150 mV	150 mV
						150 mV



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/21 /06

ARCADIS Project Name: Cadmus

Project Number: RN006104.0001.LA002

Field Calibration by: CF/JSC

Instrument Source: Pine

Instrument Source: Pine

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Standard	Calibrated Reading	Remarks
pH Meter	YSI	6920	0907 0907	4.00 s.u. 7.00 s.u.	3.99 7.00	4.01 prior to cal. 7.02 prior to cal.	
		2130302AC		10.00 s.u.			
				4.00 s.u.			
				7.00 s.u.			
				10.00 s.u.			
				4.00 s.u.			
				7.00 s.u.			
				10.00 s.u.			
				1415	1415	Cd Solution was 1413 umhos/cm	
				5.000 umhos/cm		1423 prior to cal.	
Conductivity Meter				30,000 umhos/cm			
				3,000 umhos/cm			
				5,000 umhos/cm			
				30,000 umhos/cm			
				3,000 umhos/cm			
				5,000 umhos/cm			
Dissolved Oxygen			0907 11	30,000 umhos/cm mm Hg / 02.4%	mm Hg / 02.4%	8.98 mg/L 105.7 mg/L	
Calibrate to Water-Saturated Air					mm Hg	9.24 mg/L prior to cal.	
Turbidimeter			0907 11	mm Hg	NTU	0.05 NTU prior to cal.	
ORP				NTU	NTU		
				150 MV			
				150 MV			
				150 MV			



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/21 /06

ARCADIS Project Name: Cadmus

Field Calibration by:

Project Number: RN006104.0001.LA002

Instrument Source

Type of Instrument	Manufacturer	Model Number	Time	Standard Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6920 04106186A#	0933 0933 10.00 s.u. 4.00 s.u.	4.00 s.u. 7.00 s.u. 10.00 s.u. 4.00 s.u.	7.00 7.00	3.98 prior to cal. 6.97 prior to cal.
				7.00 s.u. 10.00 s.u. 4.00 s.u.		
				7.00 s.u. 10.00 s.u.		
Conductivity Meter		0933 (4133-000) µmhos/cm	1415 5,000 µmhos/cm 30,000 µmhos/cm 3,000 µmhos/cm 5,000 umhos/cm 30,000 umhos/cm 3,000 umhos/cm 5,000 umhos/cm 30,000 umhos/cm		1870 umhos/cm prior to cal.	
Dissolved Oxygen		0933 cal	778.4 mm Hg 778.6 mm Hg mm Hg	99.2 % 102.1 %	8.75 mg/L pre cal 9.02 mg/L post cal	
Calibrate to Water-Saturated Air						
Turbidimeter		0933 1)	0.0 NTU NTU	0.01 NTU	0.03 prior to cal.	
ORP					150 MV 150 MV	



FIELD INSTRUMENT CALIBRATION LOG

Date: 04/22/06

ARCADIS Project Name: Cadmus

Project Number: RN006104.0001.LA002

Field Calibration by:

Instrument Source:

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6920	12/19 Pre	4.00 s.u.	3.67	
			12/19 Post	7.00 s.u.	7.30	
				10.00 s.u.		
			12/19 Post	4.00 s.u.	4.00	
			12/19 Post	7.00 s.u.	7.00	
				10.00 s.u.		
				4.00 s.u.		
				7.00 s.u.		
				10.00 s.u.		
			12/19 Pre	14133.000 µmhos/cm	1299	
				5,000 µmhos/cm		
				30,000 µmhos/cm		
			12/19 Post	14133.000 µmhos/cm	1413	
				5,000 umhos/cm		
				30,000 umhos/cm		
				3,000 umhos/cm		
				5,000 umhos/cm		
				30,000 umhos/cm		
			12/19 Pre	777.6mm Hg	702.3%	9.00 mg/lC
			12/19 Post	777.6mm Hg	702.3%	C. 97 mg/lC
Dissolved Oxygen				mm Hg		
Calibrate to Water-Saturated Air						
Turbidimeter			12/19 Pre	NTU	-0.1	
			12/19 Post	NTU	0.0	
ORP				NTU		
				150 MV		
				150 MV		
				150 MV		



Date: 04/ 2 / 06

ARCADIS Project Name: Cadmus

FIELD INSTRUMENT CALIBRATION LOG

Project Number: RN006104.0001.LA002

Field Calibration by:

Instrument Source

Type of Instrument	Manufacturer	Model Number	Time	Concentration	Calibrated Reading	Remarks
pH Meter	YSI	6420	1230 pre	4.00 s.u.	4.00	
			1230 cal	7.00 s.u.	7.17	
				10.00 s.u.		
			1230 post	4.00 s.u.	4.00	
			1230 cal	7.00 s.u.	7.16	
				10.00 s.u.		
			11	4.00 s.u.		
				7.00 s.u.		
			1230 pre	14133.000 μ mhos/cm	1348	
				5.000 μ mhos/cm		
			11 post	14133.000 μ mhos/cm	14190	
Conductivity Meter			1230 cal	5.000 umhos/cm		
				30.000 μ mhos/cm		
			11	3.000 μ mhos/cm		
				5.000 μ mhos/cm		
			1230 pre	30.000 μ mhos/cm		
Dissolved Oxygen			1230 post	777.8mm Hg	102.3	9.01 mg/l
Calibrate to Water-Saturated Air			1230 post	777.8mm Hg	102.1	8.99 mg/l
Turbidimeter			1230 pre	NTU b.d		
			1230 post	NTU 0.1	NTU	
ORP				150 mV		
				150 mV		
				150 mV		



Pine Environmental Services, Inc

10611 Harwin Drive, Suite 416, Houston, TX 77036
 866-981-7463(Toll-Free)
 713-981-6283(Phone)
 713-981-7466(Fax)
 pine-tx@pine-environmental.com

Certificate of YSI Calibration

This is to certify that the YSI 6920 Serial Number 01B0202AC was calibrated with standard units traceable to manufacturer's specification

Model: 6920

Pine No: 1844

Serial No: 01B0202AC

lot Number:G798-0rp

Calibration Standard	Instrument Output	Allowable Range	% Difference
Redox: 240mv	240mv	228-252 mv	0%

lot Number:2503365

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Zero1: 7PH	7PH	6.65-7.35 PH	0%

lot Number:2509214-cond

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span1: 1413ms/cm	1413ms/cm	1342.35-1483.65 ms/cm	0%

lot Number:5065-auto

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Zero1: 0NTU	0NTU	0-0 NTU	0%
PH-Span1: 4PH	4PH	3.8-4.2 PH	0%
Conductivity-Span2: 4.49ms/cm	4.49ms/cm	4.27-4.71 ms/cm	0%

Temperature DO Chart:

Water Temperature (C)	DO(mg/L)	Result
21	8.68	9.89

Environmental Conditions of Test Area:

Temprature Degree F: 77 %Relative Humidity 55

Calibrated By: James Logan**Date:** 4/12/2006 8:11:00 PM

All instrument are calibrated according to manufacturer's specifications

Customer must notify PES of any defect within 24 hours of receipt of equipment
Please call 866-981-7463 for Technical Assistance

▲ Pine Environmental Services, Inc

4037 Darling Court, Suite D, Lilburn, GA 30047
 800-842-1088(Toll-Free)
 770-925-2855(Phone)
 770-925-2811(Fax)
 pine-ga@pine-environmental.com

Certificate of YSI Calibration

This is to certify that the YSI 6920 Serial Number 04D6185AA was calibrated with standard units traceable to manufacturer's specification

Model: 6920

Pine No: 5300

Serial No: 04D6185AA

lot Number: 449-COND

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span1: 4.49ms/cm	4.49ms/cm	4.27-4.71 ms/cm	0%

lot Number: 5058-0 NTU

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Zero1: 0NTU	0NTU	0-0 NTU	0%

lot Number: 1509707-100 NTU

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Span 3: 100NTU	100NTU	95-105 NTU	0%

lot Number: 5289-PH10

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span3: 10PH	10PH	9.5-10.5 PH	0%



Pine Environmental Services, Inc

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 919-878-1122(Fax)
 pine-nc@pine-environmental.com

Certificate of YSI Calibration

This is to certify that the YSI 6920 Serial Number 04K17092AB was calibrated with standard units traceable to manufacturer's specification

C-VC

Model: 6920

Pine No: 6398

Serial No: 04K17092AB

lot Number: 4804 pH4

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Span1: 4PH	4PH	3.8-4.2 PH	0%

lot Number: 1501544 cond

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span1: 1.413ms/cm	1.413ms/cm	1.34-1.48 ms/cm	0%

lot Number: 4496 Zero NTU

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Zero1: 0NTU	0NTU	0-0 NTU	0%

lot Number: 2885 (YSI+Horiba 100)

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Span 2: 100NTU	100NTU	95-105 NTU	0%

lot Number: G364 (redox)



Pine Environmental Services, Inc
92 North Main Street, Bldg 20, Windsor, NJ 08561
800-301-9663(Toll-Free)
609-371-9663(Phone)
609-371-1663(Fax)
pine-nj@pine-environmental.com

8/11/2006
C-8C

Certificate of YSI Calibration

This is to certify that the YSI 6920 Serial Number 02J01244AG was calibrated with standard units trace manufacturer's specification

Model: 6920

Pine No: 5126

Serial No: 02J01244AG

lot Number: 2407088

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Span1: 4.01mv	4.01mv	3.81-4.21 mv	0%

lot Number: 4819

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Zero1: 0NTU	0NTU	0-0 NTU	0%

lot Number: 1412580

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Span1: 100NTU	100NTU	95-105 NTU	0%

lot Number: 2501028

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span1: 1.413ms/cm	1.413ms/cm	1.34-1.48 ms/cm	0%

Calibration Standard	Instrument Output	Allowable Range	% Difference
Redox: 240mv	240mv	228-252 mv	0%

lot Number:01-070

Calibration Standard	Instrument Output	Allowable Range	% Difference
Dissolve Oxygen-Span1: 100%	100%	95-105 %	0%

lot Number:2501040

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Zero1: 7.01PH	7.01PH	6.66-7.36 PH	0%

Environmental Conditions of Test Area:

Temprature Degree F: 69 %Relative Humidity 34

Calibrated By: William Bass

Date: 4/11/2006 10:19:00 AM

All instrument are calibrated according to manufacturer's specifications

Customer must notify PES of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance



Pine Environmental Services, Inc

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 919-713-0008(Phone)
 919-878-1122(Fax)
 pine-nc@pine-environmental.com

4/27/06
 10/11 am

Certificate of YSI Calibration

This is to certify that the YSI 6920 Serial Number 05G1495AC was calibrated with standard units traceable to manufacturer's specification

Model: 6920

Pine No: 6545

Serial No: 05G1495AC

C-10C

lot Number: 4804 pH4

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Span1: 4PH	4PH	3.8-4.2 PH	0%

lot Number: 1501544 cond

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span1: 1.413ms/cm	1.413ms/cm	1.34-1.48 ms/cm	0%

lot Number: 4496 Zero NTU

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Zero1: 0NTU	0NTU	0-0 NTU	0%

lot Number: 2885 (YSI+Horiba 100)

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Span 2: 100NTU	100NTU	95-105 NTU	0%

lot Number: G364 (redox)

Calibration Standard	Instrument Output	Allowable Range	% Difference
Redox: 240mv	240mv	228-252 mv	0%

lot Number:4803 ph7

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Zero1: 7PH	7PH	6.65-7.35 PH	0%

Temprature DO Chart:

Water Temperature (C)	DO(mg/L)	Result
17	9.37	9.37

Environmental Conditions of Test Area:

Temprature Degree F: 71 %Relative Humidity 42%

Calibrated By: Ted White

Date: 4/12/2006 11:26:00 AM

All instrument are calibrated according to manufacturer's specifications

**Customer must notify PES of any defect within 24 hours of receipt of equipment
Please call 866-646-7463 for Technical Assistance**



Pine Environmental Services, Inc

92 North Main Street, Bldg 20, Windsor, NJ 08561

800-301-9663(Toll-Free)

609-371-9663(Phone)

609-371-1663(Fax)

pine-nj@pine-environmental.com

Certificate of YSI Calibration

1210

This is to certify that the YSI 6920 Serial Number 01M0724AB was calibrated with standard units traceable to manufacturer's specification

C-5C

Model: 6920

Pine No: 2676

Serial No: 01M0724AB

lot Number: 2407088

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Span1: 4.01mv	4.01mv	3.81-4.21 mv	0%

lot Number: 4819

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Zero1: ONTU	0NTU	0-0 NTU	0%

lot Number: 2501028

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span1: 1.413ms/cm	1.413ms/cm	1.34-1.48 ms/cm	0%

lot Number: G164

Calibration Standard	Instrument Output	Allowable Range	% Difference
Redox: 240mv	240mv	228-252 mv	0%

lot Number: 01-070

Calibration			

Standard	Instrument Output	Allowable Range	% Difference
Dissolve Oxygen-Span1: 100%	100%	95-105 %	0%

lot Number:2501040

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Zero1: 7.01PH	7.01PH	6.66-7.36 PH	0%

Environmental Conditions of Test Area:

Temprature Degree F: 69 %Relative Humidity 34

Calibrated By: William Bass

Date: 4/11/2006 1:00:00 PM

All instrument are calibrated according to manufacturer's specifications

Customer must notify PES of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance



Pine Environmental Services, Inc

92 North Main Street, Bldg 20, Windsor, NJ 08561

800-301-9663(Toll-Free)

609-371-9663(Phone)

609-371-1663(Fax)

pine-nj@pine-environmental.com

Certificate of YSI Calibration

This is to certify that the YSI 6920 Serial Number 01G0951AC was calibrated with standard units traceable to manufacturer's specification

Model: 6920

Pine No: 4439

Serial No: 01G0951AC

lot Number: 2407088

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Span1: 4.01mv	4.01mv	3.81-4.21 mv	0%

lot Number: 4819

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Zero1: 0NTU	0NTU	0-0 NTU	0%

lot Number: 1412580

Calibration Standard	Instrument Output	Allowable Range	% Difference
Turbidity-Span1: 100NTU	100NTU	95-105 NTU	0%

lot Number: 2501028

Calibration Standard	Instrument Output	Allowable Range	% Difference
Conductivity-Span1: 1.413ms/cm	1.413ms/cm	1.34-1.48 ms/cm	0%

lot Number: G164

lot Number: G164

Calibration Standard	Instrument Output	Allowable Range	% Difference
Redox: 240mv	240mv	228-252 mv	0%

lot Number: 01-070

Calibration Standard	Instrument Output	Allowable Range	% Difference
Dissolve Oxygen-Span1: 100% 100%		95-105 %	0%

lot Number: 2501040

Calibration Standard	Instrument Output	Allowable Range	% Difference
PH-Zero1: 7.01PH	7.01PH	6.66-7.36 PH	0%

Environmental Conditions of Test Area:

Temprature Degree F: 65 %Relative Humidity 35

Calibrated By: William Bass **Date:** 4/12/2006 9:00:00 AM

All instrument are calibrated according to manufacturer's specifications

**Customer must notify PES of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance**