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STANDARD OPERATING PROCEDURES (SOPs) FOR INSTRUMENTS

last updated: 8 February 2007

SOP Number	Title	Contact	Date	Misc.
ANA305.0	Perkin-Elmer Optima 2000 ICP OES General Use	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	9/14/05	
CAP207.3	Sartorius Balance, Model 1712 MP8	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP213.3	Sartorius Balance, Model LC34000P	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP214.3	Sartorius Balance, Model R200D	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP215.2	Sartorius Balance, Model MC1 LC 620 S	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP216.1	Sartorius Balance, Model 1213 MP	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP218.1	Ohaus Electronic Balance, Model 300	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP237.2	All CAP Section High Performance Liquid Chromatograph (HPLC) Systems	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP255.1	Hach DR/3000 Spectrophotometer, Model 19600-00	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP259.2	Sequoia-Turner Spectrophotometer, Model 340	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz
CAP260.1	Beckman UV/VIS Spectrophotometer, Model DU640,	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov		Please contact Jeff Meinertz

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CAP265.0	Liquid Scintillation Analyzer Instrument Operating Procedure Model 1900TR	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP273.2	Packard Biological Sample Oxidizer, Model 307	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP281.1	Beckman Coulter Ultracentrifuge, Model L8-55MR	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP282.1	Beckman Induction Drive Centrifuge, Model J2-21M	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP285.2	International Clinical Centrifuge, Model CL	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP286.2	Baxter Scientific Haemofuge, Model 3522,	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP287.2	Baxter Scientific Biofuge 15, Model 3604	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP288.3	Beckman Refrigerated Compact Centrifuge, Model Avanti 30	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP291.2	YSI/Endeco 600 Water Quality Monitoring Probes, Model MA600	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP299.5	Revco UltraCold Freezers, Models ULT 14120-7D, ULT-14120-7D12 & ULT-2090-7-A14	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP312.0	Romer Labs Thin Layer Chromatography (TLC) Auto-Spotter, Model 10	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz

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CAP313.0	Phosphor-Optical Imaging System (Molecular Dynamics Phosphor Imager, Model 455A; Molecular Dynamics Image Eraser, Model SF; Sony Black & White Monitor, Model SSM-121; Fotodybe Inc. Light Control Box, Model 3-4120; Fotodyne Inc. Transilluminator, Model 13-4640 & Dage-MTI Inc. Sony Video Camera, Model CCD72S)	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP314.3	Barnstead E-Pure Water Purifier, Model D4641	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP315.1	Cole Palmer Peristaltic Pump, Models 7553-70 (6-600 rpm), 7553-30 & 7553-80 (1-100rpm)	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP316.2	Sartorius Balance, Model LC3201D,	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP318.1	Yellow Springs Instruments Dissolved Oxygen Meter, Model 57	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP319.0	Marsh McBirney Flo-Mate Portable Water Flow Meter, Model 2000	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP320.1	Beckman Portable pH/mV Meter, Model f11	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP321.2	Remcor Liquid Circulator Heater-Chiller, Model CCF-330	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP322.1	ICN Biomedical Digiflex Auto Pipettor, Model 33010	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP325.1	Fisher Scientific pH/Ion/Conductivity Meter, Model Accumet 50/pH Electrode 13-620-285/ ATC Electrode 13-620-16/Conductivity Electrode 13-620-161	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP327.0	Precision Water Bath Shaker, Model 50	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz

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CAP328.0	AO Reichert Temperature Bath Shaker, Model 406015	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP330.1	Ryan Temperature Recorder, Model RL100	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP331.0	Isco Automatic Water Sampler, Model 2700	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP332.0	A&D Balance w/Terminal, Model HW-100KA1	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP333.1	Mettler Balance (Model # PG2002S) Operation and Calibration	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	08/25/00
CAP334.2	Beckman Portable pH/mV Meter, Model F210	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP335.1	Beckman Portable pH/mV Meter, Model 250	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP337.0	Handheld Dissolved Oxygen Meter, Model 95/10FT	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP338.0	Sartorius Model BP 3100S	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP341.2	Supco Temperature Recorder, Model CR-87	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP342.2	Dickson Temperature Recorder, Model SK4	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP344.0	Sartorius Balance, Model LP34000 1P	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz

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CAP345.0	Oakton Barometer, Model 03316-72 Instrument Operating Procedure	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP350.3	Radioactivity Survey Meter; Instrument Operating Procedure	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP372.4	Buchi Rotary Rotavapor, Model RE-121 & R-124	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP374.2	Isco Fraction Collector, Model Foxy	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP377.1	Alnor Thermo-Anemometer, Model Type 8500	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP381.1	Harvard Apparatus Syringe Pump, Model 22	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP382.1	Barham Biotechnology Electronarcosis Unit, Model Electrofish MK II	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP383.1	Radiometer Blood Gas & pH Analyzer (BMS3Mk2 Blood Micro System	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP384.3	Fisher Scientific pH Meter, Model 1002; pH/ATC Combination Electrode, Model 27502-00	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP385.0	Packard Flow Scintillation Analyzer, Model 500TR	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP389.2	Hydrolab Corp. Hydrolab "H2O", Model 11000	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
CAP390.0	VWR Scientific Light Meter, Model: 21800-014	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz

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CAP394.3	YSI Handheld Dissolved Oxygen Meter, Model 55/12FT	Jeff, Meinertz USGS, UMESC phone: 608-781-6291 jmeinertz@usgs.gov	Please contact Jeff Meinertz
GEN101.0	Deionized and Milli-Q Reagent Water Systems	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
GEN102.0	Fume Hood	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
GEN103.0	Mettler AT261 balance	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
GEN104.0	Mettler PM34K Delta Range Balance	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
GEN105.0	Revco Ultralow-Temperature Freezer	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
GEN108.0	YSI 95 Dissolved Oxygen/Temperature Meter	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
GEN109.0	Thermo Orion 720A pH Meter	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
GEN110.0	Orion Model 290A pH Meter	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/27/05
INST 101.2	Chlorine Pocket Colorimeter	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	10/28/04
INST 104.2	HACH Digital Titrator: Phenolphthalein and Total Alkalinity	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 105.2	HACH Digital Titrator: Total Hardness	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06

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INST 106.4	Partial Immersion, Liquid-filled Thermometer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 107.3	Sartorius Balance (max 4200 g; 0.01 g increments)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 108.3	Sartorius Balance (max 16 kg; 0.1 g increments)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 110.2	The Pump (air supplementation pump)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	10/06/04
INST 112.3	Test Tanks (for fish)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 118.1	Clean Aire II Fume Hood	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	10/06/04
INST 119.1	Partial Immersion, Calibrated Thermometer (-1 to 50°C)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	10/06/04
INST 120.2	YSI 95 Dissolved Oxygen and Temperature Meter	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	11/02/04
INST 121.2	Sartorius Balance (max 120 g; 0.00001 g increments)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 122.1	Leica Paraffin Embedding Station and Cooling Plate	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	11/15/04
INST 123.1	Total Immersion, Liquid-filled Thermometer (-1 to 50°C)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	11/02/04
INST 124.1	Incubator	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	11/02/04

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INST 125.2	YSI 60 pH and Temperature Meter	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 126.2	Marion Laboratory Mixer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	11/02/04
INST 128.2	20 Genesys Spectrophotometer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	05/26/06
INST 129.2	Maxi Mix Plus Vortex Mixer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 130.1	Olympus Microscope	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	11/02/04
INST 131.2	YSI 550 Dissolved Oxygen and Temperature Meter	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 132.1	Traceable Two-memory Timer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 133.1	Thermix Stirrer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 134.1	Refrigerator / Freezer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 135.2	Leica ASP 300 Advanced Smart Processor	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 136.1	Leica EG 1160 Tissue Embedding System	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06
INST 137.2	Leica AutoStainer XL Automated Slide Stainer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06

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INST 138.3	Leica RM 2255 Rotary Microtome	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/25/06	
INST 139.3	Flotation Work Station	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06	
INST 140.1	Isotemp Stirring Hotplate	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06	
INST 141.1	Sartorius Balance (max 3,100 g; 0.01 g increments)	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/21/06	
INST 142.1	Eppendorf Research Series 2100 Pipette, 1000 µL Pipettes	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/28/06	
INST 143.1	Eppendorf Research Series 2100 Pipette, 5000 µL Pipettes	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/28/06	
INST 144.1	Eppendorf Research Series 2100 Pipette, 200 µL Pipettes	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/28/06	
INST 145.0	Fisher Scientific Vortex Mixer	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/22/06	
INST 146.0	YSI 550A	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	09/25/06	
INST 147.0	Drummond Pipet-Aid XP	Jim Bowker USFWS, AADAP Program phone: 406-994-9910 jim_bowker@fws.gov	10/03/06	
NUTR700.0	Commercial Mixers – Safety, Operation and Cleaning	David Straus USDA, SNARC phone: 870-673-4483 dstraus@spa.ars.usda.gov	5/31/2005 (unsigned)	Please contact David Straus
SIU 15.0	Balance Calibration and Basic Use	Anita Kelly Southern Illinois University phone: 618 453-6099 akelly@siu.edu	3/01/2002	

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SIU 31.0	Dissolved Oxygen and Temperature Meter (YSI 55)	Anita Kelly Southern Illinois University phone: 618 453-6099 akelly@siu.edu	8/01/2003
SIU 32.0	AquaClear 20 Multistage Filtration System	Anita Kelly Southern Illinois University phone: 618 453-6099 akelly@siu.edu	9/30/2005
SIU 33.0	Intermatic Timer for Room Lights	Anita Kelly Southern Illinois University phone: 618 453-6099 akelly@siu.edu	9/30/2005
SIU 34.0	Accumet AB15 pH Meter	Anita Kelly Southern Illinois University phone: 618 453-6099 akelly@siu.edu	9/30/2005