

McMurdo Cray Lab Available Equipment	
Description	Stock Number
Animal Tracking Equipment	
Antenna, YAGI 4-element, for use with ATS receivers	0058927
Datalogger, DCC II and cables for Advanced Telemetry Systems receiver, 164-168 MHz	0036912
Radio frequency receiver, ATS R2100, 164-166 Mhz	0060614
Radio frequency receiver, ATS R4000, 164-168 Mhz	D8150
Balances and Scales	
Scale, platform, 150 kg x 0.02 kg, A&D Scale Co.	D8740
Tension load cell, Rice Lake RL20000A, 2000 lb. x 0.5 lb	0063612
Triple beam balance, 2 kg, Ohaus Harvard Trip 1550 SD	D0391
Triple beam balance, 2610 gm, Ohaus 760W	D0390
Analytical Balances	
Balance, analytical, 0-1200 g x 1.0 mg, Sartorius LC1201S	0056452
Balance, analytical, 0-200 gm x 0.1 mg, Sartorius A200S	D4248
Balance, analytical, dual range, 30 gm x 0.01 mg or 160 gm x 0.1 mg, Mettler AE163	D0333
Balance, analytical, lab, 0-424 g x 1.0 mg, Sartorius L4205	D4249
Balance, filter weighing, 128g x 0.1 mg, Sartorius A200S	D51706
Hanging Spring Scales	
Hanging spring scale with dial face, 200 lb x 1 lb	0026824
Hanging spring scale with dial face, 500 lb x 2 lb	0026825
Hanging spring scale with rectangular gauge, 500 lb x 5 lb	D5242
Micro-Balances	
Balance, micro, 3.5 g x 1 ug, Cahn 28	D0323
Balance, micro, 35 g x 0.1 ug, Cahn 31	D6753
Balance, ultramicro, 4 g x 0.001 mg, Sartorius S4	D4256
Top-Loading Balances	
Balance, electronic portable, 1200 gm x 0.1 gm, Ohaus CT1200	D52502
Balance, electronic portable, 6000 gm x 0.5 gm, Ohaus CT6000	D52444
Balance, top-loading, 0-16,500 gm x 100 mg, Mettler PC16	D0338
Balance, top-loading, 1200 gm x 0.1 gm, Mettler PL1200	D0387
Balance, top-loading, 1600 gm x 0.1 gm, Mettler PE1600	D0331
Balance, top-loading, portable electronic, 2000 gm x 0.1 gm, 6.5" x 5.5" pan size, Ohaus Scout Pro	0104021
Balance, top-loading, portable electronic, 600 gm x 0.02 gm, 12 cm diam. pan size, Ohaus Model SP-600	0104020
Biochemistry/Molecular Biology/Physiology	
Cell disrupter, Ultrasonic, Virtis Virsonic 475, Virsonic 300	D6555, D6875
Cell harvester, 48 sample system, semi-automated, Brandel M-48TI	0063615
CO2 analyzer, for soil and leaf photosynthesis analysis, high sensitivity, Licor LI-6400P	0063680

McMurdo Crary Lab Available Equipment	
CO2 analyzer, for soil and leaf photosynthesis analysis, Licor LI-6200, LI-6250	D52596
CO2 analyzer, infrared, 0-3000 ppm, Licor LI-6252	D52595
Colony counter, Qubec Darkfield, AO Richert 3325	D7984
BBL Microbiology Systems Gaspak 150 non-vented anaerobic system	0090120
Gaspak, non-vented anaerobic system, jar with lid, clamp and rack, Becton Dickinson 43-60626	0037624
Hemoglobinometer, Henry Schein Inc. 10-101	0063626
Lactate analyzer, YSI 1500-L	D52572
Microtox toxicity analyzer, Azur Environmental model 500	0073486
Pulse Oximeter, for % O2 saturation in blood, Palco Labs 340	0063625
Viscometer, portable analytical Cole-Parmer P-98899-00	0073302
Electrophoresis	
Dcode Universal Mutation Detection System, BioRad 170-9080	0068206
Dryer, Gel Slab dryer, model 483, 443, BioRad	D1091
Dryer, Gel, model 583, 100/120 V, BioRad 165-1745	D7995
Electroporator cuvettes, 0.1 cm, BioRad 165-2089	D12138
Electroporator, E. coli pulser apparatus, 120 V, BioRad 165-2101	D52802
Eluter, Electro-Eluter, model 422, 400-600 ul sample vol, w/ buffer tank and lid, BioRad 165-2976	D5525
Focusing cell, Rotofor preparative isoelectric, with membrane core, Bio-Rad 170-2950	D7213
Gel apparatus electrophoresis system, Vertical Slab, 0.75/1.5 mm, Buchler 433-8800 Instruments	D9340
Gel Apparatus, Sequi-Gen II Nucleic Acid Sequencing Cell: 38x50 cm, 32 well, vertical, BioRad 165-3604	D8962
Gel destainer, model 556, BioRad 165-2010	D5537
Gel electrophoresis system for nucleic acids, Owl Scientific Model A1	D12645
Gel electrophoresis system for nucleic acids, Maxicell Submarine model EC 360M	D10250
Gel electrophoresis system for nucleic acids, Mini Sub-Cell GT System, BioRad 170-4467	0079596
Gel electrophoresis system for nucleic acids, Mini-Sub DNA, BioRad 170-4307	D8966
Gel electrophoresis system for nucleic acids, Minigel, Owl Scientific Model B3	D53983
Gel electrophoresis system for nucleic acids, Minigel, Owl Scientific model B1	D10252
Gel electrophoresis system for nucleic acids, Sub Cell DNA, BioRad 170-4300	D6959
Gel electrophoresis system for nucleic acids, Sub-Cell GT system, BioRad 170-4400, 170-4484	0081212
Gel electrophoresis system for nucleic acids, Wide Mini-Sub Cell, BioRad 170-4343	D51301
Gel electrophoresis system for protein, PROTEAN II xi 2D slab cell, BioRad 165-1931	D8948
Gel electrophoresis system for proteins, Mini-PROTEAN 3 Cell, BioRad 165-3301, 165-3317	0079621, 0079622
Gel electrophoresis system for proteins, Mini-PROTEAN II 2-D Cell, BioRad 165-2960	D5524
Gel electrophoresis system for proteins, Mini-PROTEAN II, , BioRad 165-2940	D5519
Gel Logic 440 Kodak digital imaging sys.with UV/white ill. electrophoresis gels Western blots	0104260
Gene linker, GS, UV Chamber, BIO-RAD, cross-links DNA or RNA to membranes or proteins	D8971
Gradient former for proteins, PAGE Gel electrophoresis, model 385, 30-100 ml vol, BioRad	D5526

McMurdo Cray Lab Available Equipment	
Microfiltration apparatus, Bio Dot SF , 48-well format, 7mm x 0.75mm, autoclavable, BioRad	D8940
Microfiltration apparatus, Bio Dot, 96-well format, autoclavable, BioRad	D8970
Mutation Detection System: Dcode Universal , BioRad, BioRad 170-9080	0068206
Plate washer, PROTEAN II xi plate washer/holder, BioRad 165-1991	D5536
Power supply, Biograd Model 200/2.0	D7999
Power supply, Biorad Model 1000/500	D5518
Power supply, EC Model EC105	D9708, 0083819
Mini Prep cell, BioRad 170-2908 Preparative Gel electrophoresis system for nucleic acids or proteins	0053095
Gibco BRL model S2, Sequencing Gel Electrophoresis Apparatus for nucleic acids	D53987
Transfer Cell, Gel electrophoresis system for protein transfer, Immunetics MiniBlotter 28	D5535
Transfer Cell, Mini Trans-Blot, for protein blotting. 7.5x10cm gel, vertical. BioRad 170-3930	D5521
Transfer Cell, Protein Trans-Blot electrophoretic cell, BioRad 170-3946	D8958
Transilluminator, UV, Fotodyne	0045558
Lyophilization	
Freeze dry system, freezone, 18 liter system, with bulk tray dryer and 6 port manifold, Labconco	0104610
Freeze dryer, benchtop, 3 liter, Virtis	D1378
Freeze dryer, floor model, 25 liter, Virtis 25XL	D6560
Shell freezer, Labconco 77570	D6884
Microtomes	
Microtome, cryostat, self-contained, Miles Scientific Tissue-Tek II	D0324
Rotary microtome, AO Reichert 820	D0016
Sledge microtome, for Cold Room use, Leica 1400	D10302
Slide warmer, variable temp for paraffin mounting, Lab-Line 26020	D0031
Osmometers	
Vapor pressure osmometer, Wescor 5500XR	D4703
Vapor pressure osmometer, Wescor 5520 VAPRO	0063501
Oxygen Sensor for BOD Analysis, Self-Stirring	
Oxygen meter, analog, for bench and field work, YSI 54A	D0284
Oxygen meter, digital, for bench and field work, YSI 58	D5972
PCR Thermal Cyclers	
Cooler, Stratacooler for PCR tubes, holds 96 well plates or 1.5 ml tubes, Stratagene 400013	0067753
PCR, Perkin Elmer Geneamp System 9600	D51839
PCR, thermal cycler, Continental Labs HPBX110	0073720
PCR, thermal cycler, Coy Tempcycler II, model 110S	D51745
PCR, Thermocycler, with humidity chamber, Hybaid Omnislide	0063825
Programmable thermal controller, Gene Machine II	D7086
Rotary Evaporators	

McMurdo Crary Lab Available Equipment	
Rotary evaporator with vertical, diagonal and reflux glassware kits, Buchler/Bucci	D9099
Rotary evaporator, with diagonal condenser, Labconco Rotovap 3	0064643
Rotary evaporator, with reflux condenser, Brinkmann Rotovap	D0474
Strath-Kelvin Microrespiration Oxygen Meters	
Microcell, Strath-Kelvin MC100	84054
Oxygen meter, 1 or 2 channel, Strath-Kelvin S1782	0084057
Oxygen meter, 6 channel, Strath-Kelvin 928	0054279
Oxygen meter, single channel, Strath-Kelvin 781	D5973
Respiration cell, RC200	0054280
Respiration cell, RC300	D54095
Centrifugation	
Centrifuge, airfuge, benchtop, air turbine driven, up to 110,000 rpm, Beckman	0085137
Centrifuge, clinical, tabletop, IEC CL, HN-S, max rpm 8500	D0141
Centrifuge, clinical, tabletop, max rpm 10,400, Clay Adams TRIAC 0200	D8301
Centrifuge, clinical, tabletop, max rpm 3335, Clay Adams Dynac 0101	D5228
Centrifuge, hand driven, holds 4 tubes, table mounted	0102631
Centrifuge, hematocrit, max rpm 11,700, Becton-Dickson Microhematocrit II	D9863
Centrifuge, max rpm 30,000, refrigerated, Avanti 30	0023986
Centrifuge, ultra, tabletop, to max rpm 120,000, Beckman Optima TLX	D6882
Centrifuges, refrigerated, max rpm 20K, Beckman J2-21/J20-XPI	80025
Centrifuges, ultra, preparative, max rpm 80,000, Beckman Optima L80L/8-80M	D6883, D6880
Microcentrifuge, 6000 rpm, Midwest Scientific C1301	0083429
Microcentrifuge, refrigerated, tabletop, Eppendorf 5402	D6881
Microcentrifuge, tabletop, max rpm 14,000, Eppendorf 5415, 5415D	D0368, 0409461
General Lab Equipment	
Counter, hand tally	D5821, D5820
Digital multimeters, hand-held	0085701, D9194
Block Heaters	
1-block heater	D5288
4-block heater	D50800
6-block heater	0053738, D5283
Block heater	D0121
Cold Plate Chillers	
Cold plate with magnetic stirrer, Thermoelectric Unlimited SK12, SK14	0089724, D4794
Digital chiller and heating plate, Echotherm	0083415
Compressed Gas Regulators	
Regulator for air, CGA540	D51788

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Regulator for CO2, CGA320	0045462
Regulator for H2, CGA350	D5856
Regulator for inert gases (Ar, He, Ne, N2), CGA580	D5855
Regulator for O2, CGA540	D8424
Dessicators	
Dessicator cabinet, 20 1/2" x 16" x 22", Stainless Steel	0045802
Dessicator, glass, 200 or 250 mm ID, with 55/38 sleeve and 10 mm OD tubulation	D3344, D3346, D3345
Dessicator, plastic or polycarbonate	D3342, 0045802
Vacuum dessicating cabinet, 1 cubic foot inside dimension, Labconco	0071764
Heat Sealers	
Heat sealer for plastic pouch-type lay-flat tubing, 12 to 18 inch	D4947, 0083813, 0079519
Vacuum sealer	0096353
Hot Plates	
General purpose hot plate	D1176
Stirring hot plate	D0132
Oscilloscopes	
Oscilloscope, dual-trace, AC/DC powered, Tektronix 212/ 214	D0409
Oscilloscope, dual-trace, portable with Bistable storage system, Tektronix T912	D0413
Oscilloscope, portable, with RS232 computer interface, Tektronix 222	D5553
PH Meters	
PH meter, benchtop or portable, SA520	D0228
PH meter, Benchtop Orion 720A, D11100, Orion 920A	D11104
PH Meter, benchtop, Beckman PHI 72	D5592
PH Meter, portable, Beckman PHI 10, PHI 200, PHI 12	D7262, 0053253, 0040430
PH meter, portable, SA250, 250A-Plus	D8057, 0090172
Pipettors	
Electronic pipettors, Rainin adjustable volume EDP2, 10-100 ul	0068228
Electronic pipettors, Rainin adjustable volume EDP2, EDP3-Plus, 100 to 1000 ul	0068230, 0081528
Multi-channel pipettors, 8 channel, 200 to 1000 ul, finn pipette	0088679
Multi-channel pipettors, 8 channel, 50 to 200 ul, transferpette-8, Brinkmann	D9620
Pipettor, P-10 ml, 3 to 10 ml, Rainin adjustable volume Pipetman	D51717
Pipettor, P-10, 2 to 10 ul, Rainin adjustable volume Pipetman	D2803
Pipettor, P-100, 25 to 100 ul, Rainin adjustable volume Pipetman	0037811
Pipettor, P-1000, 250 to 1000 ul, Rainin adjustable volume Pipetman	D1058
Pipettor, P-2, 1 to 2 ul, Rainin adjustable volume pipetman	D51715
Pipettor, P-20, 5 to 20 ul, Rainin adjustable volume Pipetman	D1056
Pipettor, P-200, 50 to 200 ul, Rainin adjustable volume Pipetman	D1057

McMurdo Crary Lab Available Equipment	
Pipettor, P-5000, 1250 to 5000 ul, Rainin adjustable volume Pipetman	D1059
Repeating pipettor, positive displacement, 5 combitip settings from 10 ul to 5 mls, Eppendorf 4780	D2817
Repipettors, Bottletop	
Repipettor, 0-20 ml adjustable	D4393
Repipettor, 0-20 ml adjustable, on its own bottle	D4390
Repipettor, 0-5 ml adjustable	D51163
Repipettor, 0-5 ml adjustable, on its own bottle	D4392
Repipettor, 0.4 - 2 ml adjustable	D10730
Repipettor, 1 ml fixed volume calibratable	D4396
Repipettor, 10-50 ml adjustable	D4400
Repipettor, 2 ml fixed volume calibratable	D4397
Geophysical Instruments	
Magnetometer, proton precession type, EG&G Geometrics G-856AX	D4701
Autoclaves	
Autoclave, stationary equipment, Market Forge STM-E	D0330
Autoclave, compact, portable, 120 to 135C, rapid or slow cooldown, Precision 8000-DSE	0088995
Baths	
Circulating water bath, heating/cooling, -10 to 100C, 3 liter capacity	0096214, 0104275
Circulating water bath, heating/cooling, -15 to 120C, 6 or 7 liter capacity	D52653, 0084960
Circulating water bath, heating/cooling, -25 to 150C, 10 liter capacity	0063392
Circulating water bath, heating/cooling, -25 to 150C, 12 or 13 liter capacity	D6542, D0264, 0106013
Shaker bath, orbital, ambient to 65C, 40-400 RPM, Labline 3545	D7267
Ultrasonic bath, 0.75 gallon capacity, Branson B-2200R-3	D1009
Ultrasonic bath, 2.75 gallon capacity, Cole-Parmer 08859-02	0056140
Ultrasonic bath, with heater and timer, 0.75 gallon capacity, Cole-Parmer 8891-DTH	D51088
Water bath, heating dual chamber, ambient to 100C, 12 liter, Precision 66643	D2661
Water bath, heating, 25 to 100C, for molecular biology, 2 liter, Precision 180	D9590
Water bath, heating, ambient to 100C, 11 liter, Precision 183-6651	D11076
Water bath, heating, ambient to 100C, 12 liter, VWR 1203	D9182
Water bath, heating, ambient to 50C, designed for fecal coliforms, 16.7 liter, Precision 66885	D9895
Water bath, heating, ambient to 70C, 7 liter Blue M SBG	D9331
Water bath, heating, tissue flotation, 35 to 65C, Boekel Scientific 14792	0088889
Water bath, hybridization, 30 to 75C, 3 liter, Stovall Belly Dancer CO1474	D8128
Water bath, stirring/heating, ambient to 110C, 7 liter, Cole-Palmer 1095-00	D7259
Immersion Coolers	
Immersion circulator, heating/cooling, analog controls, 5 to 150C, Fisher Isotemp 730	D5578
Immersion circulator, heating/cooling, digital controls, 2 speed pump, VWR 1122	0407199

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Immersion cooler, Cryocool series Neslab CC-65II/CC-100II with rigid cooling probes	0025999
Immersion cooler, non-circulating, with flexible cooling probe, down to -30C, Neslab PBC 211	D0272
Incubators	
Incubator, gravity convection, 5.5 cu. ft., 30 to 60C, Fisher Isotemp 200	D0472
Incubator, gravity, benchtop, to 60C, Precision P5	D4796
Incubator, hybridization, 5 to 99C, Robbins Scientific Eurotherm 310	D4742
Ovens and Furnaces	
Furnace, electric muffle, 25" x 11" x 10", to 1200C, Thermolyne 1800	D0384
Microwave Oven	0053783, D52631, D9337
Oven, convection gravity, 14" x 12" x 13", 30 to 240C, Precision 16-EG	D0471
Oven, convection, 12" x 11" x 12", to 250C, Blue M OV-12A	D0473
Oven, convection, 19" x 16" x 12", 40 to 260C, Blue M GO-1320A	0055110
Oven, convection, 9.5" x 12" x 9", ambient to 250C, Quincy 10	D52145
Oven, drying, 23" x 20" x 18.5", ambient to 250C, VWR 52201-071	0056288
Oven, drying, forced air, mechanical, 23" x 18" x 19", 40 to 260C, Baxter Gold	D6553
Oven, microwave, 16.5" x 16.5" x 9.5"	D52631, 0053783
Vacuum oven, 0.45 cu. ft., 12" x 8" x 8", 10 to 200C, vac to 10 microns, Precision 51220166	0088508
Irradiance Meters	
Pyranometer, high precision, for use with Campbell dataloggers, Eppley PSP	0053781
UV radiometer, 300-400 nm, Kipp and Zonen CUV3	0080175
Irradiance Sensors	
Data acquisition/power supply for QSP-200/QSR-240 irradiance sensors, Biospherical Inst DAS 186	0402948
Irradiance sensor, integrating quantum scalar, Biospherical Inst QSI-140	D1215
Irradiance sensor, submersible quantum scalar, Biospherical Instruments QSP-200	D2702
Lowering frame for QSP-200, QSP-210	D52545
Quantum scalar irradiance sensor and meter, for laboratory use, Biospherical Instruments QSL-101	D52620
Irradiance Sensors	
Datalogger, for use with type SA and SB Licor sensors with BNC connectors, Licor 1400	D5493
Datalogger, for use with type SA and SB Licor sensors with BNC connectors, Licor 1000	0045792
Pyranometer sensor, terrestrial, 10 ft cable LI-200S	D11128
Pyranometer sensor, terrestrial, 10 ft cable LI-200X	D52440
Mounting and leveling fixture for pyranometers, LI-2003S	D52546
Quantum irradiance sensor, flat, for underwater use, for use with Licor dataloggers, LI-192SA, LI-192SB	D5495, D9356
10 meter uw cable for Licor sensors LI-192 and LI-193, with Licor dataloggers 2222UWB-10, D5497	D5497
100 meter uw cable for Licor sensors LI-192 and LI-193, for use with Licor dataloggers 2222UWB-100	0052143
30 meter uw cable for Licor sensors LI-192 and LI-193, for use with Licor dataloggers 2222UWB-30	D52547
50 meter uw cable for Licor sensors LI-192 and LI-193, for use with Licor dataloggers 2222UWB-50	0045790

McMurdo Crary Lab Available Equipment	
Quantum irradiance sensor, spherical, for underwater use, for use with Licor dataloggers, LI-193SA	D8908
Quantum irradiance sensors, terrestrial, 10 ft. cable Licor LI-190	D8904
Quantum irradiance sensors, terrestrial, 10 ft. cable for use with Licor dataloggers, LI-190SA, LI-190SB	D52544, 0044914
Limnological/Oceanographic Equipment	
Ekman sediment grab/sediment dredge, 6" x 6" x 6", Wildco 196	D2683
Go-Flo water sampler, 5 Liter, with teflon coating, General Oceanics	0068221
Metering sheave, snatch-block, 3 ton, Kahl Scientific	D5480
Refractometer, hand-held, auto temp compensation, Reichert 10419	D1160, 0053198
Sediment box corer, 300 cubic inches, Wildco 191-A12	D52507
Water content reflectometer probe, Campbell Scientific CS615	0063445
Dissolved Oxygen Measurement	
Dissolved oxygen/temp probe, for use with YSI 50 series meters listed below, requires cable, YSI 5739	D5968
Oxygen meter with dedicated weighted probe, 25 ft cable, YSI 95D	0068854
Oxygen meter, analog, for bench or field work, YSI 54A	D0284
Oxygen meter, digital, for bench or field work, YSI 58	D5972
Niskin Water Samplers (specify size)	
Niskin bottle, 10 liter, General Oceanics	D2692
Niskin bottle, 2.2 liter, General Oceanics	D2787
Niskin bottle, 5 liter, General Oceanics	D2786
Salinity, Conductivity, Temp Measurement	
Salinity, cond, temp meter, benchtop 5 ft cable, YSI 3100 with YSI 3252 probe. Req cal stnds separately	0069009
Salinity, conductivity, temp meter, hand-held, 25 ft cable, YSI 30. Req cal stnds separately	0069008
Salinity, conductivity, temp meter, hand-held with 50 ft cable, YSI 30. Req cal stnds separately	0400787
Seabird CTD Instruments	
CTD, SBE 25 Sealogger, with OBS turbidity, micro-temp sensor, micro-conductivity sensor, to 600 meters	0403248
CTD, SBE-19 plus profiler, with DO sensor, PH/ORP sensor, to 600 meters	0081870
CTD, SBE-19 Seacat profiler, with OBS turbidity monitor, DO sensor, PH sensor, to 197 meters	D6887
Meteorological Equipment	
Barograph, drum-type recording barometer, Abbeon 8004	D8251
Field barometer, portable pressure standard, Paroscientific 760-16B	D8123
Thermo anemometer, hand-held, Alnor Compuflow 8525	D1006
Thermo hygrometer, hand-held, digital, VWR	0089774
Campbell Scientific Datalogger Accessories	
Charger/regulator, 12 volt, Campbell Sci CH12R or CH100	0099573, 0053178
Crossarm sensor mount, aluminum, Campbell Sci 019ALU	0053182
Datalogger support software, Campbell Sci Loggernet	0088987
Display Keyboard/Interface, Campbell Sci CR10KD	0053023

McMurdo Crary Lab Available Equipment	
Enclosure, weatherproof, fiberglass, 10" x 12", Campbell Sci ENC10/12	0079718
Enclosure, weatherproof, fiberglass, 12" x 14", Campbell Sci ENC 12/14	0062689
Enclosure, weatherproof, fiberglass, 16" x 18", Campbell Sci ENC 12/18	0072308
Interface peripheral, Campbell Sci SC532A	D9768
Interface, RS232 PC to logger, optically isolated, SC32A, SC32B	D9770, 0090459
Interval timer, 8 channel, Campbell Sci SDM-INT8	0056030
Power supply, with charger/regulator and 12 volt, 7 AH gell-cell battery	0056291, 0096131
Relay Multiplexer, 16 channel, Campbell Sci AM416-XT	0063424
Campbell Scientific Dataloggers	
Datalogger, Campbell Scientific CR10-XT	0402664
Datalogger, Campbell Scientific CR10X-XT	D52414
Campbell Scientific Storage Modules	
Storage module, 19.2 KB storage capacity, Campbell Sci SM192-XT	0056233
Storage module, Campbell Scientific SM4M-XT	0072020
Davis Portable Weather Stations	
Vantage Pro 2 portable weather station with standard radiation shield and integrated sensor suite	0127188
Weather Monitor II, measures wind speed/dir/chill, humidity, baro pressure, temp high/low/in/out, Davis	D9860, 0099400
Weather Wizard II and III, measures wind speed/dir/chill, temp high/low/in/out, Davis	0040306
Weatherlink datalogger software for MACs, Davis 7866	0037019
Weatherlink datalogger software, Davis 7862	D9861, 0126748
Sensor/Probes for Campbell Scientific Dataloggers	
Air/soil/water temperature probe, thermistor type, Campbell Sci 107	0073939, 0072051
Conductivity/temperature probe, with interface, Campbell Sci CS547, A547	0091380
Relative humidity/temp probe, head not replaceable, 8 ft cable, Visala HMP35AC	0056266
Relative humidity/temp probe, with replaceable head, Visala HMP45C	0068452
Replacement head for Visala HMP45C relative humidity/temp probe, Visala HMP41	0079574
Wind monitor, speed and direction, rugged, high performance, plastic tail, RM Young 05103	0053184
Microscopy	
Microscope compound, with phase contrast and epifluorescence (EPI) capability, Leitz Laborlux S	
Microscope compound, with phase contrast and epifluorescence (EPI) capability, Zeiss Standard 16	
Microscope, compound microscope, Nikon YS-T	
Microscope, compound monocular, Zeiss Monocular	
Microscope, compound with phase contrast, epifluorescence (EPI) capability and DIC, Zeiss Axioskop 50	
Microscope, compound with phase contrast, EPI capability and DIC, Zeiss Axioskop A-1 Imager	
Microscope, inverted compound with triocular, Olympus CKX41	
Microscope, inverted compound, Olympus CK40	
Microscope, inverted compound, with phase contrast and epifluorescence (EPI) capability, Leitz Fluovert	

McMurdo Crary Lab Available Equipment	
Microscope, inverted compound, with phase contrast and EPI capability, Zeiss Axiovert 35	
Microscope, petrographic polarizing, Meniji 9000	
Microscope, petrographic polarizing, Meniji 9300	
Microscope, petrographic polarizing, Nikon Optiphot-2 POL	
Microscope, petrographic polarizing, Olympus BH-2	
Microscope, stereo microscope, Nikon SMZ-10	
Microscope, stereo microscope, Nikon SMZ-1000	
Microscope, stereo microscope, Wild M3Z, 6.5 to 40X	
Microscope, stereo microscope, Wild M5A	
Microscope, stereo microscope, Zeiss SMZ 1	
Microscope, stereo microscope, Zeiss SMZ 2	
Microscope, stereo microscope, Zeiss SR	
Fiberoptic illuminators with light pipes for microscopy	
Transmitted light stand	
Table, vibration dampening, slab	
Table, vibration, isolator, free standing	
Digital camera, Zeiss AxioCam MRC5	
Digital camera, SPOT RT-220	
Digital camera, Canon A630	
Digital camera, Nikon Coolpix 995	
Video, Sony CCD IRIS/RGB	
Miscellaneous Field Sampling Gear	
Dip net for ice removal	D51834, 0117087
Photography and Videography (Non-Microscope)	
Camcorder, Sony DCR-TRV900	0068185
Camcorder, Sony DCR-VX1000	0060185
Aqua-Vu Underwater viewing system, black and white camera	0096132, 0103147
VCR, HI-8 format, Sony EV-S3000, D9162, EV-0200	0045378
VCR, VHS, JVC	0068801
Pumps and Filtration	
Aspirator pump, Cole-Parmer 7049-00	0063283
High vacuum air cooled diffusion pump, 5 x 10 ⁻⁶ MBAR ultimate vacuum, Edwards EO50/60	0057408
Small diaphragm pump, Cole-Parmer Air Cadet, 12 volt DC powered	D52503
Small diaphragm pump, Thomas Industries, 12 volt DC powered	0067894
Small electronic metering pump, Cole-Parma HD-MA	0062585
Filtration barrel, 2.4 Liters, for 102 mm filters, Geotech Environmental 0855	0053748
Filtration manifold, 10 place, Hoeffler FH225V	D1867

McMurdo Crary Lab Available Equipment	
Filtration unit, Geotech Environmental 0801	0058616
Tangential filtration system, Millipore Pellicon 2	0068975
Tangential filtration system, Millipore Pellicon P15312	D7469
Vacuum chamber, 6 5/8" x 9 3/8", 7 1/2" bottom plate, Nalge 5305-0609	D51261
Vacuum filtration manifold, 2 place, Plastic	D5691
Vacuum filtration manifold, 3 place, Aluminum, Gelman	D52645
Vacuum filtration manifold, 3 place, PVC, Millipore	D9332
Vacuum filtration manifold, 3 place, stainless steel, Fisher Scientific	D2790
Vacuum filtration manifold, 6 place, stainless steel, Fisher Scientific	D2791
Gast Vacuum Pumps/Compressors	
Diaphragm pump/compressor, Gast DOA series oil-less	D5255
Diaphragm pump/compressor, oil-less, 12 volt DC powered	0090083
Oil-less piston type pump/compressor, Gast 1 HAB	0068301
Rotary vane oil-lubed vac pump/compressor, Gast 23 series	0063328
Rotary vane, oil-lubed vac pump/compressor, Gast 0211	D0353
Peristaltic Pumps	
Buchler polystaltic pump, motor and drive complete	D0371
Junior cassette pump, 1 to 90 MLS/hr flow rate, 1 or 2 channels, Manostat Jimmy	0058533, 0058534, 0058535
Pump drive, 1/10 HP, var speed, rev, Masterflex P-07520-10, Masterflex L/S series	0073728
L/S series occlusion pump head, Masterflex Easy Load II series, Model 77200-62	
L/S series occlusion type pump head, Masterflex Easy Load II series, Model 77201-60	
Pump drive, high capacity, 1/3 HP, variable speed, 100 to 650 rpm, Masterflex 07549-12	0067722, D12111
Standard pump head, 0.2 to 8 LPM, Masterflex 7019-21	
Standard pump head, 8 LPM max, Masterflex 7019-00	
Pump drive, multi-channel, variable speed, 1 to 100 rpm, Cole-Parmer 7568-00	D52626
Pump heads for use with multi-channel pump drive, Cole-Parmer 7015-20	D52626
Vacuum pump drive, variable speed with detachable Masterflex Easy Load pump head, Model H-7529-30	0050956
Variable speed pump drive with Masterflex Easy Load head, Model 7518-12	D0414
Wash-down modular pump drive, Masterflex/Barnant P-07552-70	0068215
Submersible Pumps	
Submersible sump pump, 1/3 HP, 110 volt	0012917
Submersible sump pump, 1/4 HP, 110 volt, 2.2 amp, 22 GPM capacity, Flint and Walling 2SPFA-L	0078531
Submersible utility pump, epoxy coated, 20.4 GPM capacity, 110 volt, Cole-Parmer 75500-00	D51090
Radioisotope Measurement	
Bicron or Ludlum survey meters with GPM and PGM probes for Beta, Alpha and Gamma detection	
Eberline ESP-1 survey meter with HP210L GM probe for low-level Beta, Alpha and Gamma detection	D8111
Liquid scintillation counter (LSC), Beckman LS6000	D6556

McMurdo Crary Lab Available Equipment	
Liquid scintillation counter (LSC), Beckman LS6500	0081873
Shakers, Mixers, Homogenizers	
Belly Dancer gyro orbital shaker platform, Stovall Life Science USBD	D53989
Commercial blender, single speed, Waring 700G	D0177
Gyrotory platform shaker, benchtop, New Brunswick 2100	D52646
Junior orbit shaker, 3/4" orbital motion, Lab-Line 3520	D0295
Lab grade blender, 2 speed 18,000 and 22,000 rpm, with 1 liter stainless steel container, Waring 7011S	0058412
Mini bead beater cell disruptor/homogenizer, Biospec 3110BX	0067447
Overhead homogenizer, variable speed Brinkman PT 10/35	D0429
Overhead stirrer, compact, variable speed 1000 to 10,000 rpm, Wheaton 903475	D0160
Overhead stirrer, variable 2 speed, Fisher 14-498-45	0058532
Portable gyrotory shaker, New Brunswick G2	D0296
Rocker platform, max load 20 lbs. Bellco 7740-20020	D9178
Sorval Omni-Mixer homogenizer, Dupont Sorval 17105	D0176
Speci-Mix aliquot platform mixer, Thermolyne M26125	0063375, D8342
Tissue tearor/homogenizer, hand-held, Biospec 985-370	D52504
Vortex mixer, variable speed, Genie 2	D5613
Wrist-action shaker, variable speed with side-arm shafts and finger-grip clamps, Burrel Scientific 75	0041073
Snow and Ice Processing	
Band saw for fresh water ice cores, Delta 28-203	D51729
Band saw for salt water ice cores, Delta 28-203	0407006
Light table for ice core processing	D12042
Soil and Rock Processing	
Logitech 1CS12 Thin Section Cut-Off Saw, 300mm	0055502
Logitech VS2 Pump for use with 300mm Cut-Off Saw (above)	0055511
Epovac Vacuum Impregnation, Embedding Unit for Prepping Thin Section Slides	0059778
Rock Polishing Wheel	0026750
Covington Lapidary Unit	D8244
Logitech LP50/TL3A Thin Section Lapidary Polishing System	0038608
Thermodyne 13"x12"x6" Hotplate, 40lb capacity	00105785
Logitech L-1BJ12 12 Position Zero Bonding Jig with Large Section Facility	00418951
Logitech LO-1BJ6 6 Position Zero Bonding Jig with Large Section Facility	0099729
Carver 3853-M 25 Ton Manual Two Column Hydraulic Press	0109909
Ball mill/mixer/pulverizer, Spex Certiprep 8000	0056448
Electric sieve shaker, Dynamic CL390	D8245
Lapidary saw, trim, 7.5" blade, Lotone FS-8	D10348
Lapidary saw, slab and trim, 14" blade, Contempo TR-14	D10349

McMurdo Crary Lab Available Equipment	
Moisture tester, for coarse soils, aggregates, 20 GRM capacity, 0-20% range, ELE International MC-321A	D10345
Mud testing kit, with a Bariod 300 API filter press, Bariod 82100	D12103
Siever, with vibration intensity control, up to 8 fractions, Retsch A200	0079619
Sieves, standard 3", ASTM designation, please specify mesh size	
Sieves, standard 8", ASTM designation, please specify mesh size	
Spectrophotometry	
Microplate reader, Molecular Devices SpectraMAX 340	0063138
Spectrophotometer, small portable, 325-1100 NM, Spectronics Genysis 20, 4014	0088997, 0090506, 0090507
Spectrophotometer, small portable, 330-1000 NM, Sequoia Turner 340	D52027
Spectrophotometer, UV-VIS, Diode-array detector, Beckman DU7400	D10151
Spectrophotometer, UV-VIS, dual beam PMT detector, Shimadzu UV-1601 PC	0086548
Spectrophotometer, UV-VIS, dual beam PMT detector, Shimadzu UV-2501PC	0105323
Spectrophotometer, UV-VIS, photodiode detector, Beckman DU64	D6554
Spectrophotometer, UV-VIS, photodiode detector, Beckman DU640	D51673
Thermometers	
Boxcar 3.6 software for Windows, includes cable, supports all HOBO and stowaway loggers	0411679
Hobo H8 outdoor temperature logger, 4 channel, -20 to 70C, Onset H08-008-04	0081207
Hobo U12 outdoor temperature/ data logger, 4 channel, -20 to 70C, Onset U12-008	0121113
Optic stowaway submersible temperature logger, -5 to 37C, 32K memory, Onset WTA32-05 and 37	0062737
Optic stowaway submersible temperature logger, -5 to 37C, 8K memory, Onset WTA08-05 and 37	0058627
Optic stowaway submersible temperature logger, Onset WTA32-39 and 75	0053805
Stowaway XTI square box temperature logger (not submersible), -37 to 46C, Onset XT108	0041441, 0045813
RTD Thermometers	
RTD platinum digital thermometer, meter and probe, portable, 40" cable, VWR 61161-370/61220-703	0089282, D51436
RTD thermometer, meter and probe, bench-top, reads up to 4 probes Omega DP95-A-RS-41/PRP-1	0053811, 0053815
Temperature Controllers	
RTD temp controller digital output, Dynasense MK-1, probe: Cole-Parmer 02157-93	0058543, 0045408
RTD temp controller with probe, Cole-Parmer 2155-10/ 02157-93	D7219, 0045408
RTD temperature controller with probe, Cole-Parmer 02154-02, probes: Cole-Parmer 08117-87	0058543, 0058544
Temp controller, analog output, 2 zone, 2 AC loads/zone, 800 watt output, Cole-Parmer 2155-10	D7219
Temp controller, digital output, uses type T/C thermocouple, Digisense 89000-00	0088511
Thermistor Thermometers	
Thermistor thermometer with dedicated stainless immersible probe, -40 to 150C, Electrotherm	0054756, D8535
Thermistor thermometer, for use with YSI 400 series probes, Digisense	0085567, D50886
Thermistor probe, stainless surface temp probe, YSI 408	D54064
Thermocouple Thermometers	
Fine wire thermocouples, type K, 36" length, 0.020" diam, Omega	0060165

McMurdo Crary Lab Available Equipment	
Male connector for type K wire thermocouples, Omega	0060168
Scanning thermocouple thermometer, type J/T/E/K, Digisense 92800-00	D10721
Switchbox for up to 5 type T thermocouples, Physitemp SWT-5	0045335
Thermocouple probe, stainless sheath, 3/16" diam, 12" length	0064325
Thermocouple probe, type T, Cole-Parmer 8113-40	0409729
Thermocouple probe, type T, stainless 4" probe, immersible, on coiled cable, Cole-Parmer	0045337
Thermocouple thermometer, type J/T/E/K, Digisense	0053038
Thermocouple thermometer, Type J/T/K, Digisense	D52416
Thermocouple thermometer, Type K/J, Fluke 51	0053295
Thermocouple thermometer, type T, Fluke 2175A	D0349
Thermocouple thermometer, type T, Physitemp Bat-12	0045335
Wire thermocouple, type T, 10 ft length, Omega	0402436