



Gravity Equipment Inventory - 2016

Updated 10/02/16

Item	Description of line item
Vehicles and Vessels	
RV Cassiar 46' boat	50' research vessel - Aluminum open water hull, hydraulic A-frame and winch, large cabin.
RV Tieton 34' boat	34' research vessel - Landing Craft Hull, large cabin, hydraulic A-frame and winch.
RV Mazama 24' boat	24' research vessel - shallow water Jet landing craft , A-frame and hydraulic winch.
RV Klamath 30' barge	30' barge with moon hole, A-frame. Designed for Geoprobe and Auger drilling and support.
RV Tdee 27' Landing Craft	30' barge with moon hole, A-frame. Designed for Geoprobe and Auger drilling and support.
RV Houma 18' Airboat	18' Airboat with a-frame and passenger seating for minimal water level operations
RV Blackfoot 16' boat	16' boat for rough ocean rider primarily set-up for survey
RV Lochsa 14' boat	14' Shallow water skiff with jet and integrated survey sonar system for river work
RV StabiCraft 14' boat	14' aluminum RIB type boat for larger vessel support
Various Portable Boats	from jon boats to backpack Alpaca kayaks
PiggyBack Underdock Corer Float	Coring Float Frame designed to be used for underdock coring
John Deer Gator ATV vehicle	4x4 utility vehicle set-up for use with the Earthprobe drilling rig or as a support vehicle
Mobile Field Trailer	24' enclosed trailer equipped for remote field sampling programs
Water Testing Equipment	
Hydrolab Minisonde 4a	Hydrolab multi-meter with turbidity, DO, conductivity, depth, temperature, pH
Hydrolab MS5 sonde	Hydrolab multi-meter with turbidity, DO, conductivity, depth, temperature, pH
YSI Exo sonde	YSI multi-meter with turbidity, DO, conductivity, depth, temperature, pH
YSI Castaway	YSI CTD - integrated with Sound velocity for surveys
D&A Turbidity Sensors	turbidity sensors with radio transmitters
Link Quest Acoustic Modem	acoustic modem system for connecting underwater electronics to surface unit without cables - 3000 meter Depth
LISST 100X particle analyzer	Sequoia Scientific LISST 100 x particle size and concentration analyzer can be used real-time or remotely - 300 meter depth
LISST Deep particle analyzer	Sequoia Scientific LISST Deep particle size and concentration analyzer can be used real-time or remotely - 3000 meter depth
TURNER C3 Fluorometer	Fluorometer for measurement of chlorophyll concentrations also has additional sensor for measuring oil concentrations
PR2900 High Volume Sampler	proprietary sampling system for high volume sampling - filters separate dissolved from solid contaminant fractions
HF Scientific turbidity meter	bench top turbidity sensor
Hach MF Pro	discharge flow sensor system for wadeable streams

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Van Dorn water sampler	4 liter water sampler
GoFlo 5-20 liter water samplers	5-20 liter water samplers designed for clean sampling. Rosette frame can be added to collect water at different depths
<i>Sediment Testing Equipment</i>	
RIC - 6600 vibracore unit	High Impact low frequency vibracoring unit for sediment sampling. Vibracore can drive 2" to 6" round and square tube
RIC-DEEP Vibracore unit	Deep Water vibracore to depths of 1000 feet. Same impact specifications as standard 6600.
SEDX ROV system	ROV Platform designed for collecting sediment grabs and cores as well as in-situ physical measurements
GraviProbe FreeFall Penetrometer	Free Fall hand deployed Penetrometer with CPT system. Designed for substrate characterization and density measurements.
AR-4500 Corer	Pneumatic vibracorer for sediment sampling. Runs off of compressor or with a remote dive tank.
Earthprobe Direct Push Drilling rig	Direct push and auger drill rig for use either on the RV Gator Barge or on a separate John Deer 4x4 vehicle
Auger Lite Direct Push system	2 inch auger system designed to be mounted on either of our landing craft vessels or barge
Power Grab - surface sampler	custom sediment grab with pneumatic piston. Has closing force of 800 ft/lbs and penetration of 25 cm
XL Power Grab - surface sampler	custom sediment grab with pneumatic piston. Has closing force of 1000 ft/lbs and penetration of 35 cm
Hand vibracorer	Hand held vibracorer unit drives 3" sample tube. Options include battery and AC operated model.
Hand Piston corer	Hand driven corer unit drives 2" sample tube
Sediment Flume Corer	Custom Pnuematic corer designed to collect square sediment samples for flume analysis
Piston Gravity Corer	4" drop corer with 500 lbs weight block
Box Corer Grab	Stainless 14" box corer with 50 cm penetration
Eckman Grab Sampler	Standard Eckman with 6 inches of penetration. Designed for soft substrates
Van Veen Grab Sampler	Standard Van Veen with 20 cm of penetration. Custom weight set included for better recovery in sands and clays.
<i>Hydrographic and Geophysical Equipment</i>	
SyQwest SubBottom Sonar 3khz	Bathy Stratabox Subbottom survey system for geophysical and bathymetry survey
SyQwest subBottom Sonar 10khz	Bathy Stratabox Subbottom survey system for geophysical and bathymetry survey
Airmar SS510	portable survey grade sonar system - USACE approved for shallow water
HydroLite Sonar	bluetooth portable survey grade sonar system - USACE approved for shallow water
Starfish Sidescan Sonar	sidescan sonar designed for bottom viewing and survey - tow or fixed mount available
Ping DSP Multibeam system	Multibeam sonar system with 3D bottom scanning - IHO certified
<i>GPS & Positioning Equipment</i>	
Trimble Geo 7X	Handheld 30 cm accuracy system with H-Star
SBG Equinox	INS system with MRU and dual antenna's - ideal for swath surveys
Trimble 550H DGPS	Trimble DGPS with Marine Heading and Omnistar correction
Trimble R8	RTK System for land and water survey sub-centimeter or as a base station
Nobeltec DGPS unit	differential gps unit
HyPack Survey Software	HyPack Survey software for use with our survey system

Item	Description of line item
<i>Metocean and mooring Equipment</i>	
RDI Sentinel ADCP 1200	acoustic current profiler for measuring water currents in either a fixed, towed, or lowered setup - 3000 meter Depth
RDI Sentinel ADCP 600	acoustic current profiler for measuring water currents in either a fixed, towed, or lowered setup - 3000 meter Depth
Nortek Aquadopp 600	acoustic current profiler for measuring water currents,
Sontek River Surveyor system	River surveyor system with multicat or vessel mount for discharge measuring
InterOcean Acoustic Releases	Release systems for deepwater deployment of equipment and/or mooring release
Profiling Frames & Floats	various frames for deployments from deep ocean to shallow river
Nexsens data loggers	Underwater data loggers that can be used with water quality sensors and/or weather stations
Nexsens Tide Gauge	Remote tide gauge system with cellular or radio access
NexSens 450 data Buoys	Data Buoys include wind & weather data, realtime position, cellular modems and can include water, wave and current meters
<i>Camera Systems</i>	
Custom Tow Sled	Custom towed sled system with wide angle camera, laser scales and LED light. Comes with 300 feet of cable
Mini - Sediment Profile Camera	Sediment camera system with GoPro Live view camera and control. Can be deployed with pole or frame
GoPro underwater camera Sled	underwater GoPro camera w/video live view cable
SplashCam underwater video	tethered underwater video system with 360 viewing
<i>Other</i>	
Acoustic Hydrophone monitor unit	C3 hydrophone system for measuring underwater sound levels. Commonly used to monitor construction activities.
Acoustic Fish & Seal Scarer Unit	Field proven adjustable frequency and hertz underwater noise systems designed to scare marine mammals and fish
Smith Root Electrofisher	electrofisher for vessel kit - high power for mid conductivity systems
Research Winch & Frame - 1000 M	Aluminum research winch with brake and hydraulic controls. Spool holds 1000 meters of Amsteel line.
Dive Kits	dive kits - wetsuits, tanks, masks
Satellite Phones	Iridium Sat Phones for remote access
Dive Kits	dive kits - wetsuits, tanks, masks