

Contract Number: DE-AC05-76RL01830
Modification M920

**PART III – List of Documents,
Exhibits and Other Attachments**

Section J

Appendix I

LIST OF BATTELLE MEMORIAL INSTITUTE LEGACY WORK

APPENDIX I
LIST OF BATTELLE MEMORIAL INSTITUTE LEGACY WORK
(LEGACY PROJECT AUTHORIZATION - OCTOBER 2012)

Contract No. DE-AC05-76RL01830
Modification M920

SCOPE NO	PROPOSAL TITLE	CONT_CLNT_NAME	FUND_CLNT_NAME	WALS	WALS
				COST_AMT	PROP_END_ DATE
63499	56067 - Predicting Kinetic Rate Constants for Condensed Phas	Spectral Sciences, Inc.	Air Force Research Laboratory	146,891	3/13/2013
63767	58844 - Potsdam Roadmaps towards Sustainable Energy Futures	Potsdam Institute for Climate Impact Research	Potsdam Institute for Climate Impact Research	245,000	6/30/2013
63607	62301 - INSPIRE Maintenance	Multi-client Industrial	Multi-client Industrial	62,443	9/30/2013
63766	58619 - Links - Linking Global and Regional Energy Strategie	SINTEF Energy Research	SINTEF Energy Research	71,000	4/25/2014
63619	62654 - Enhancement of the Light Right Survey (LRS) Tool	Philips Lighting	Philips Lighting	40,064	12/20/2012
63451	48887 - Improving Efficiency of Commercial Buildings in WA	State of Washington, Attorney Generals Office	State of Washington, Attorney Generals Office	1,630,000	12/31/2014
63828	FRAPCON-3 User Group. Paper study.	Multi-client	Multi-client	75,000	9/30/2013
63594	61846 - Silicon Detectors for High Resolution Radioxenon Mea	XIA, LLC	DOE - SC Germantown Building	70,000	2/12/2014
63759	52172 - Economic Methods for Assessing Climate Change	Mizuho Information & Research Institute	Mizuho Information & Research Institute	17,294	1/31/2013
63602	62215 - Helium Ion Microscopy of Shale Mineral Deposits	ExxonMobile Research and Engineering Company	ExxonMobile Research and Engineering Company	6,845	8/31/2013
63513	57320 - The Impact of geo-engineering by aerosols on the cli	University of Calgary	University of Calgary	224,674	9/30/2013
63551	APT Analysis	GE Global Research	GE Global Research	37,046	12/31/2013
63508	AMS Deployment at National Parks	Electric Power Research Insititute - EPRI	Electric Power Research Insititute - EPRI	5,797	12/31/2013
63574	Evaluation of Dose and Dose Rate Effects in Beagle dogs expo	Electric Power Research Insititute - EPRI	Electric Power Research Insititute - EPRI	50,949	12/31/2013
63503	Develop and Utilize an Integrated Model of GHG Emissions	Electric Power Research Insititute - EPRI	Electric Power Research Insititute - EPRI	126,140	12/31/2013
63583	61605 - Polymer Characterization	PepsiCo, Inc.	PepsiCo, Inc.	59,236	12/31/2013
63492	55433 - Seamless prediction of cold clouds (NCAR)	National Center of Atomospheric Research	NASA - National Aeronautics & Space Administration	115,819	5/31/2014
63603	62232 - Analyzing Model Simulations from the Community Land	Carnegie Institution of Washington	NASA - National Aeronautics & Space Administration	31,780	7/30/2014
63482	54211 - Collaborative Research: The Role of Surface, Subsurf	National Oceanic and Atmospheric Administration (NOAA)	National Oceanic and Atmospheric Administration (NOAA)	57,288	7/31/2014
63520	58354 - Integrated Assessment Modeling of Major Forest Distu	University of Maryland at College Park	NASA - National Aeronautics & Space Administration	297,040	8/31/2014
63516	57489 - Integrated Assessment of Coupled Human-Forest Dynami	University of New Hampshire	NASA - National Aeronautics & Space Administration	391,305	8/31/2014
63475	53677 - Comparative proteomics of women infected with Malaria	Seattle Biomedical Research Institute	NIH - National Institutes of Health	268,370	11/30/2014
63507	56613 - GEPR: Soybean Root Hairs: A model for single-cell pl	University of Missouri	National Science Foundation	107,341	8/31/2015
63545	Impact of Organic Matter and Black Carbon Emissions	National Oceanic and Atmospheric Administration (NOAA)	National Oceanic and Atmospheric Administration (NOAA)	455,008	8/31/2015
63558	60730 - High Order Model, Computation, and Stochastic Hybrid	University of Notre Dame	National Science Foundation	28,124	9/30/2015
64029	62438 - Prediction and Network Construction Using High-throu	University of Washington	NIH - National Institute of General Medical Sciences	46,326	6/30/2013
63489	54923 - Genetic analysis of Salmonella typhimurium virulence	Oregon Health Science University	NIH - National Institutes of Health	85,890	11/30/2013
63477	53776 - Genetic Analysis of Salmonella Typhimurium Virulence	Oregon Health Sciences University	NIH - National Institutes of Health	144,012	11/30/2013
63885	58766 - Automated NMR Potato Sensing	Lamb Weston	Lamb Weston	27,072	12/31/2012
63468	53063 - Evaluation and development of FT catalysts	Korea Institute of Energy Research	Korea Institute of Energy Research	28,958	12/31/2012
63742	61886 - COMcheck Ontario	Municipal Affairs & Housing Building	Municipal Affairs & Housing Building	8,127	3/31/2013
63604	62241 - CSC FRAMES Support Task Order 1521.02	Computer Sciences Corporation	EPA Mid-Continent Ecology Division	125,453	5/7/2013
63760	61148 - NREL WIND SITE SWEA	Los Alamos Technical Associates (LATA)	National Renewable Energy Laboratory - NREL	17,000	9/30/2013
63573	61088 - CO2BOLs post combustion	U.S. Department of Energy (DOE)	U.S. Department of Energy (DOE)	455,333	3/31/2014
63585	61615 - EMFP of Bitumen for Fuel and Chemical Production	H-Quest Partners, LP	H-Quest Partners, LP	20,064,674	9/30/2015
63524	59070 - Numerical Simulator for the Kinetic Exchange of Gas	Korea Institute of Geoscience & Mineral Research	Korea Institute of Geoscience & Mineral Research	85,464	3/31/2013
63622	62715 - GS3 for EPA Region 5	EPA, Environmental Protection Agency	EPA, Environmental Protection Agency	37,136	9/30/2013
63496	55898 - Shell Oil Co.	Shell Oil Company	Shell Oil Company	360,000	12/31/2014
63453	Carbon Sequestration Field Pilot Study	National Energy Technology Laboratory (NETL)	National Energy Technology Laboratory (NETL)	2,167,949	12/31/2014
63587	61713 - Support for RTI	Real-Time Innovations, Inc.	Air Force, Research Laboratory	182,414	9/30/2013
63755	63106 - Installation of SAIC P7500 at 3440 Test Track	Science Applications International Corporation - SAIC	DHS - Customs & Border Protection	300,000	10/31/2012
63854	63166 - Installation of Smiths IRD & HE System at 3440 Test	Smith's Detection	DHS - Customs & Border Protection	710,000	12/30/2012
63493	Visual Sample Plan Training Course in Support of AMEC	AMEC	AMEC	30,000	4/30/2013
63544	60207 - Geometric flow approach to implicit solvation modeli	Michigan State University	NIH - National Institutes of Health	118,823	7/31/2013
63737	60586 - Characterization/bioinformatics-modeling	Washington University School of Medicine	National Institute of Health (NIH)	254,386	8/31/2013
63511	57182 - Natural Products	Antelope Therapeutics, LLC	Antelope Therapeutics, LLC	572,712	9/30/2013
63614	62510 - NEIMiner Phase II	Intelligent Automation, Inc.	U.S. Army Corps of Engineers	8,472	11/13/2013
63541	National Biomedical Computation Resource	University of California, San Diego	NIH - National Institutes of Health	57,659	4/30/2014
63579	61394 - Immunization Safety Beliefs in Microblogs	Infectious Deseases Society of America Edu & Rsch	Sealy Center for Vaccine Development, UTMB	50,956	5/1/2014
63589	61764 - Nanophotonic sensor fabrication and characterization	University of Delaware	National Science Foundation	39,000	3/31/2015
63542	59994 - Mechanism of Oxysterol Activation of Membrane Choles	Washington University School of Medicine	NIH - National Institutes of Health	158,361	9/30/2015
63479	54067 - RL16 Laboratory (post-cert)	CTBTO	CTBTO	375,000	9/30/2015
63440	28480 - Chernobyl Shelter Implementation Plan Project Manage	Ministry of Energy of Ukraine State Dept. of Nuclear Safety	European Bank for Reconstruction and Development	45,000,000	9/30/2015
63834	59383 - GC PUD Productivity	Grant County Public Utility District	Grant County Public Utility District	8,110	12/31/2012
63842	61023 - Spawn Habitat	Grant County Public Utility District	Grant County Public Utility District	7,582	12/31/2012
63833	59272 - Fall Chinook Working Group	Grant County Public Utility District	Grant County Public Utility District	11,000	12/31/2012
63851	62541 - Phase 2-O2 Isotopes Fall Chinook	Idaho Power Company	Idaho Power Company	83,000	12/31/2012
63606	62290 - McNary Steelhead Fallback	Army Corps of Engineers - Walla Walla District (USACE)	Army Corps of Engineers - Walla Walla District (USACE)	99,677	12/31/2012

APPENDIX I
LIST OF BATTELLE MEMORIAL INSTITUTE LEGACY WORK
(LEGACY PROJECT AUTHORIZATION - OCTOBER 2012)

Contract No. DE-AC05-76RL01830
Modification M920

SCOPE NO	PROPOSAL TITLE	CONT_CLNT_NAME	FUND_CLNT_NAME	WALS COST_AMT	WALS PROP_END_ DATE
63837	59746 - Egg to Fry Survival	Grant County Public Utility District	Grant County Public Utility District	50,000	12/31/2012
63624	62747 - Tailrace Tracking	Army Corps of Engineers - Walla Walla District (USACE)	Army Corps of Engineers - Walla Walla District (USACE)	290,951	2/15/2014
63623	62724 - External JSATS Field Test	Army Corps of Engineers - Walla Walla District (USACE)	Army Corps of Engineers - Walla Walla District (USACE)	568,597	3/29/2013
63618	62636 - Steelhead Kelt Passage	Army Corps of Engineers - Walla Walla District (USACE)	Army Corps of Engineers - Walla Walla District (USACE)	567,550	3/29/2013
63913	Spawning & Overwintering of Rainbow Trout	Fish & Wildlife Department - Colville Confederated Tribes	BPA - Portland	288,000	4/30/2013
63577	61316 - WW JSATS	Army Corps of Engineers - Walla Walla District (USACE)	Army Corps of Engineers - Walla Walla District (USACE)	7,519,737	5/1/2014
63738	61110 - Basin of Origin	Grant County Public Utility District	Grant County Public Utility District	450,000	12/31/2013
63840	60894 - Stranding/Entrapment	Grant County Public Utility District	Grant County Public Utility District	750,804	9/30/2015
63835	59402 - Life Cycle Model	Grant County Public Utility District	Grant County Public Utility District	305,017	9/30/2015
63568	61020 - Survival Study	Army, Corps of Engineers - Portland District	Army, Corps of Engineers - Portland District	742,526	9/30/2013
63841	60989 - Barotrauma Consultation	Symbiotics, LLC	Symbiotics, LLC	101,000	9/30/2013
63836	59599 - GC Thermal Modeling	Grant County Public Utility District	Grant County Public Utility District	317,000	12/31/2014
63888	60676 - PRD Turbine Assessment	Grant County Public Utility District	Grant County Public Utility District	848,000	12/31/2014
63829	Tech Services GC PUD	Grant County Public Utility District	Grant County Public Utility District	5,000,000	9/30/2015
63488	54761 - In vivo Characterization of Extracellular Reduction	Bowling Green State University	NIH - National Inst of Environmental Health Sciences (NIEHS)	5,959	11/30/2012
63580	61486 - Research Consultation for American Chemical Council	American Chemistry Council	American Chemistry Council	4,601	12/31/2012
63890	61593 - Airborne Ammonia Sensor Test Flight	Los Gatos Research	U.S. Department of Energy (DOE)	7,900	12/31/2012
63570	61062 - Calculations of Airflow and Particle Breakup Inside	Oregon State University	NASA - John C. Stennis Space Center	3,636	2/5/2013
63598	61949 - Social Network Analysis: Enhance Climate Change Adap	Centre for Environmental Mgmt, CQ University Australia	National Climate Change Adaptation Research Facility	43,632	2/6/2013
63740	61690 - Inhalation Route Isobutyl Series Pharmacokinetics	Oxo Process Panel, ACC	Oxo Process Panel, ACC	40,769	3/31/2013
63850	62322 - UMCP Human Dimensions of Global Change(HDGC) Researc	University of Maryland at College Park	University of Maryland at College Park	67,000	4/30/2013
63481	54193 - PBPK Enabled Urine Biomarker Based Human BPA Exposur	EPA, Environmental Protection Agency	EPA, Environmental Protection Agency	274,080	5/3/2013
63556	Validation of Biomarkers for Triple Negative Breast Cancer	University of Texas Health Science Center-San Antonio	NIH - National Cancer Institute	600,000	6/30/2013
63500	Exceptional, Unconventional Research Enabling Knowledge Acce	University of Miami	NIH - National Institutes of Health	209,112	8/31/2013
63626	62847 - Migration of Y-90 in Tumor	Advanced Medical Isotope Corporation	Advanced Medical Isotope Corporation	412,435	9/30/2013
63609	62435 - Intergenerational & intragenerational equity- climat	Ragnar Frisch Centre for Economic Research	Norwegian Research Council	56,222	12/31/2013
63559	60829 - Modeling International Offsets	Electric Power Research Institute	Electric Power Research Institute	50,431	12/31/2013
63497	Support for GTSP	Electric Power Research Institute	Electric Power Research Institute	179,199	12/31/2013
63910	48559 - Vinyl Acetate Council Consulting	Vinyl Acetate Council	Vinyl Acetate Council	1,000,000	1/3/2014
63832	59135 - Molecular Mechanisms of LPS Preconditioning in Strok	Oregon Health & Science University	NIH - NINDS	80,000	6/30/2014
63746	62182 - Evaluation of BPA Dermal Exposure and TK Among Cashi	Ohio State University	Centers for Disease Control & Prevention	88,663	6/30/2014
63728	54142 - Mitral-FSI	University of Maine	NIH - National Institutes of Health	381,000	6/30/2014
63729	55374 - Urinary Proteome Monitoring for Transplant Injury	Stanford University	NIH - National Institutes of Health	800,000	7/31/2014
63566	60962 - A 1.5-T superconducting solenoid-dipole magnet for M	Massachusetts Institute of Technology (MIT)	NIH - National Institutes of Health	152,010	9/30/2014
63745	62084 - Reduction of Black Carbon from Diesel Sources	EPA, Office of International Affairs	EPA, Office of International Affairs	1,000,000	9/30/2015
63540	59973 - Structure-Function of Dirigent Protein in Lignan Bio	Washington State University	National Science Foundation	219,024	9/30/2015
63726	53375 - Administrative Core for OSU/PNNL Superfund	Oregon State University	National Toxicology Program (NIEHS)	251,596	9/30/2015
63735	60260 - Deep RNA sequencing and proteomic analysis of a hybr	University of California, Los Angeles	NIH - National Institutes of Health	575,107	9/30/2015
63597	61923 - Structural Genomics on Infectious Diseases	Seattle Biomedical Research Institute	NIH - Nat'l Inst of Allergy & Infectious Diseases (NIAID)	809,184	9/30/2015
63560	60831 - Vulnerability of DOD facilities to climate change	DOD - Strategic Environmental Research & Development-SERD	DOD - Strategic Environmental Research & Development-SERPD	1,734,518	9/30/2015
63464	52726 - Statistics & Bioinformatics for SBRP	Oregon State University	NIH - National Institutes of Health	3,152,595	9/30/2015
63518	57951 - Transplacental pharmacokinetics of dibenzo[a,h]pyren	Oregon State University	National Toxicology Program (NIEHS)	3,261,092	9/30/2015
63549	Animal Model Development for Medical Countermeasures	Department of Health and Human Services	Department of Health and Human Services	26,000,000	9/30/2015
63831	56852 - IEA Task 34	IEA Bioenergy	IEA Bioenergy	86,500	12/31/2012
63467	Aberdeen Proving Ground	Johnson Controls, Federal Solutions	Army, Aberdeen Proving Grounds	209,934	12/31/2012
63452	48997 - ENVIRONMENT-ASSISTED CRACKING MECHANISMS	Rolls Royce & Associates Ltd.	Rolls Royce & Associates Ltd.	223,504	3/31/2013
63744	62045 - Production of Bio-Hydrogenated Diesel (BHD) in Micro	Oregon State University	PTT Public Company Limited	108,500	6/20/2013
63843	61182 - Membrane Evaluation for Redox Flow Battery	LynnTech, Inc.	U.S. Department of Energy (DOE)	125,000	9/30/2014
63847	62021 - FCE UVP Components	Fuel Cell Energy, Inc.	Navy, Office of Naval Research	300,000	9/30/2014
63839	60752 - Sustainable Alternative Jet Fuel from Cellulosic Bio	LanzaTech	US Department of Transportation	200,009	9/30/2014
63519	57999 - ARRA - Pacific Northwest Smart Grid Demonstration	U.S. Department of Energy (DOE)	U.S. Department of Energy (DOE)	46,128,990	9/30/2015
63550	60549 - ARRA Technical Support to FutureGen Industrial Alli	FutureGen Industrial Alliance, Inc.	National Energy Technology Laboratory (NETL)	68,539,852	9/30/2015
63536	59676 - NEEA Industrial Model	Northwest Energy Efficiency Alliance	Bonneville Power Administration - Portland	52,780	12/31/2012
63564	60951 - American Samoa Tropical Energy Code Adoption and Tra	American Samoa Energy Office	DOE, Energy Efficiency and Renewable Energy Network	106,964	12/31/2012
63581	61493 - Transcriptomics Analysis of Fermentation Organisms	LanzaTech	LanzaTech	67,109	3/31/2013
63439	28336 - CVSA Pilot Inspection Study	Commercial Vehicle Safety Alliance	DOE, Office of Civilian Radioactive Waste Management	66,000	9/30/2013
63480	54159 - SECA Vertical Team Coal Based SOFC Stack Development	Delphi	DOE, Office of Fossil Energy	705,000	6/30/2014
63621	62676 - Low Cost Vacuum Insulated Glass Windows	Milgard Windows & Doors	Milgard Windows & Doors	205,288	12/31/2012

APPENDIX I
LIST OF BATTELLE MEMORIAL INSTITUTE LEGACY WORK
(LEGACY PROJECT AUTHORIZATION - OCTOBER 2012)

Contract No. DE-AC05-76RL01830
Modification M920

SCOPE NO	PROPOSAL TITLE	CONT_CLNT_NAME	FUND_CLNT_NAME	WALS	WALS
				COST_AMT	PROP_END_ DATE
63546	60306 - Biomarkers for pulmonary injury following deployment	Institute for Systems Biology	Army, Medical Research and Materiel Command	179,775	7/31/2013
63476	53773 - Technical Assistance to Ashland for Catalytic Hydrot	Ashland Speciality Chemical Company	Ashland Speciality Chemical Company	45,902	7/2/2013
63474	Quality Assurance Support	Theseus Professional Services, LLC	DOE, Office of Environmental Management	139,111	9/30/2013
63514	57361 - Quality Assurance Support	Theseus Professional Services, LLC	Farris Engineering Curtiss Wright Flow Control Corp	16,715	9/30/2013
63748	62446 - Infrared Transmitting Glass Ceramics	Raytheon - Integrated Defense Systems	Defense Advanced Research Projects Agency (DARPA)	144,549	12/31/2013
63887	59828 - AECL Reactor Dosimetry	Atomic Energy of Canada Limited	Atomic Energy of Canada Limited	17,722	3/31/2013
63463	52687 - Tri Cities Patient Safety Improvement	Benton Franklin Community Health Alliance	Benton Franklin Community Health Alliance	30,839	12/31/2012
63571	61072 - EPRI PWR Reactor Support	Electric Power Research Institute	Electric Power Research Institute	12,068	12/31/2012
63461	52306 - Southern California Edison Co.	Southern California Edison Co.	Southern California Edison Co.	36,640	12/31/2012
63484	54489 - SM Stoller - Germanium Detector	SM Stoller Corporation	SM Stoller Corporation	996	3/31/2013
63534	59658 - Chemical Waste Management Northwest	Chemical Waste Management	Chemical Waste Management	854	5/31/2013
63533	59647 - STTR Phase II: Development of an Integrated In Situ	EIC Laboratories, Inc.	DOE, Office of Science	35,874	8/14/2013
63535	59674 - SBIR Phase II: Development of a Compact Fiber Optica	EIC Laboratories, Inc.	DOE, Office of Science	106,733	8/14/2013
64040	53725 - Isotope Production from Gamma and Neutron Generators	Thorenco, LLC	Thorenco, LLC	30,000	9/30/2013
63449	47859 - Westinghouse Retrospective Reactor Dosimetry	Westinghouse Electric Company - Nuclear Fuel Unit	Westinghouse Electric Company - Nuclear Fuel Unit	115,763	9/30/2013
64028	57296 - Modeling/Simulation Studies of Cincinnati Arch Mt.	Battelle Memorial Institute	National Energy Technology Laboratory (NETL)	11,000	10/31/2012
63501	56185 - Hunters Point Parcel F BCO Support	Battelle Columbus Operations	Naval Facilities Engineering Command - Southwest Division	15,000	10/31/2012
63523	DU Soil Contamination and Transport	Battelle Eastern Science & Technology Center	Army Public Health Command	1,162	11/30/2012
63915	62594 - Sulfuryl Fluoride Modeling support	Battelle Columbus Operations	Dow Chemical Company	20,000	12/31/2012
63627	62879 - ExFIRS Support	Battelle Columbus Operations	Internal Revenue Service	50,000	12/31/2012
63884	First Wave	Battelle Columbus Operations	Independent Establishments and Government Corporations	75,000	12/31/2012
63973	54140 - Technical and Analytical Support to NA-24	Battelle Columbus Operations	DOE - National Nuclear Security Administration	200,000	1/31/2013
63912	57119 - Chlorpyrifos Children Modeling	Battelle Columbus Operations	Dow Chemical Company	72,000	2/28/2013
63562	60928 - Veterinary Support for Tox Northwest	Battelle Columbus Operations	National Institutes of Health (NIH)	15,000	3/31/2013
63563	60931 - Veterinary Support for Tox Northwest	Battelle Columbus Operations	National Institutes of Health (NIH)	10,000	3/31/2013
63578	61370 - RNTRA	Battelle Columbus Operations	DHS - Department of Homeland Security	261,000	3/31/2013
63510	56994 - Fagitue Management for Rapid Renewal Highway Const	Battelle Columbus Operations	DOE Transportation Research Board	82,300	3/31/2013
63855	63175 - EDSP - TO 03	Battelle Columbus Operations	EPA, Environmental Protection Agency	47,000	4/30/2013
64049	59343 - ACRP 03-16	Battelle Memorial Institute	Transportation Research Board	40,000	4/30/2013
63889	Assessment of Contamination after Laundering	Battelle Columbus Operations	EPA Office of Research and Development	133,980	8/31/2013
63506	56589 - High-Flyer Dosimetry Testing	Battelle Memorial Institute	Air Force, School of Aerospace Medicine	110,000	9/30/2013
63438	27190 - Provide Multiple Services to Pre Clinical Drug Devel	Battelle Columbus Operations	Department of Health and Human Services	350,000	9/30/2013
63911	55031 - Brooks Air Force Base - Dosimeter Irradiations	Battelle San Antonio Operations	Air Force, Brooks Air Force Base	76,465	8/1/2014
63538	59781 - Biological Threat Reduction Program (BTRP/BTRIC)	Battelle Crystal City Office	Defense Threat Reduction Agency (DTRA)	1,500,000	9/30/2013
63491	PBPK Model Support for EPA-ORD	Battelle Memorial Institute	EPA, Environmental Protection Agency	350,000	10/31/2013
63530	Evaluation of PB Biokinetic Model for Bacillus anthracis	Battelle Memorial Institute	EPA, National Risk Management Research Laboratory	174,000	10/31/2013
64041	59556 - ICM Benefit Analysis	Battelle Columbus Operations	US Department of Transportation	75,000	4/30/2014
63495	55879 - MRCS Phase III	Battelle Columbus Operations	National Energy Technology Laboratory (NETL)	1,000,000	9/30/2014
63856	63219 - Evaluation of AEP Oklahoma gridSMART Volt Var Projec	Battelle Columbus Operations	American Electric Power Service	75,000	12/15/2012
63436	07182 - Monitoring marine receiving water	City of Sequim	City of Sequim	9,943	12/31/2012
63442	41578 - Biomarkers and Toxicology involving EVOS-related Spe	Exxon Mobil Corporation	Exxon Mobil Corporation	62,000	12/31/2012
63445	44198 - Silver and Copper Analysis in Effluent	City of Salisbury, WWTP	City of Salisbury, WWTP	5,100	12/31/2012
63515	57393 - Hydrodynamic Modeling Analyses for the Mill Road Res	Columbia Land Trust	Bonneville Power Administration - Portland	19,252	12/31/2012
63505	56575 - Kitsap Co EPA Region X 2009	Kitsap County Public Works	EPA Region 10 - Seattle	12,978	12/31/2012
63617	62562 - USACE NYD Arthur Kill	Battelle Ocean Sciences Laboratory	Army - Corps of Engineers - New York District	28,125	12/31/2012
63521	58366 - Palau Circulation Modeling	University of California, San Diego	Navy, Office of Naval Research	61,239	2/26/2014
63612	62488 - Pelton Round Butte - Temperature Model - FY 2012	Portland General Electric	Portland General Electric	119,910	12/31/2012
63611	62452 - BW Treatment Technology Verification using Test Orga	National Science Foundation International	U.S. EPA - Great Lakes Region	117,640	1/31/2013
63590	61780 - EDSP - TO 38	EPA, Environmental Protection Agency	EPA, Environmental Protection Agency	362,824	2/28/2013
63754	63005 - FSU Mercury	Florida State University	National Oceanic and Atmospheric Administration (NOAA)	12,000	3/1/2013
63543	60076 - EDSP - TO 33	EPA, Environmental Protection Agency	EPA, Environmental Protection Agency	332,854	3/21/2013
63527	59495 - EDSP-TO 31 Larval Amphibian	EPA, Environmental Protection Agency	EPA, Environmental Protection Agency	444,663	3/21/2013
63528	59496 - EDSP-TO 32 Medaka	EPA, Environmental Protection Agency	EPA, Environmental Protection Agency	676,818	3/21/2013
63485	54627 - Hecla Greens Creek Mining Company	Hecla Green Creek Mining Company	Hecla Green Creek Mining Company	15,566	4/16/2013
63596	Fish and Shellfish Monitoring-Analytical	Aluminum Company of America (ALCOA)	Aluminum Company of America (ALCOA)	45,000	6/26/2013
63460	52238 - Ballast Water RDTE Facility	National Oceanic & Atmospheric Administration (NOAA)	National Oceanic & Atmospheric Administration (NOAA)	569,821	9/30/2013
63586	61699 - META CCA Analysis	META Environmental	Electric Power Research Institute	3,569	9/30/2013
63444	43549 - Morro Bay Taxonomic Identifications	Marine Research Specialists	City of Morro Bay	2,800	9/30/2013

APPENDIX I
LIST OF BATTELLE MEMORIAL INSTITUTE LEGACY WORK
(LEGACY PROJECT AUTHORIZATION - OCTOBER 2012)

Contract No. DE-AC05-76RL01830
Modification M920

SCOPE NO	PROPOSAL TITLE	CONT_CLNT_NAME	FUND_CLNT_NAME	WALS	WALS
				COST_AMT	PROP_END_ DATE
63446	EPA Region 2 Low Level Hg Analyses	EPA Region 2 - New York	EPA Region 2 - New York	7,500	9/30/2013
63450	47930 - Eagle River Water and Sanitation District	Eagle River Water & Sanitation District	Eagle River Water & Sanitation District	10,988	9/30/2013
63443	42556 - Englewood Mercury Analyses 2001 Open PO	City of Englewood Colorado	City of Englewood Colorado	12,000	9/30/2013
63592	61829 - Carbon Footprint Tool Technical Support	Noblis	Noblis	86,723	9/30/2013
63616	62561 - USACE NYD Newark Bay	Battelle Ocean Sciences Laboratory	Army - Corps of Engineers - New York District	57,956	4/30/2013
63458	51728 - Penobscot River Mercury Study	Eviron International Corporation	Mallinckrodt	99,290	9/30/2013
63547	60371 - 2010 Maine DEP Gulfwatch	AXYS Analytical Services Ltd	Maine Department of Environmental Protection	56,500	9/30/2013
63600	62172 - TO 1 Chemical Repository	Battelle Columbus Operations	EPA, Environmental Protection Agency	90,260	9/30/2013
63599	61985 - USACE NYD HARS Sampling	Battelle Ocean Sciences Laboratory	Army - Corps of Engineers - New York District	111,488	9/30/2013
63457	DuPont South River Project	Dupont De Nemours and Company, Inc.	Dupont De Nemours and Company, Inc.	176,645	9/30/2013
63526	59394 - Fir Island Farm Restoration	Shannon & Wilson, Inc.	Shannon & Wilson, Inc.	138,733	9/30/2013
63531	59524 - CSF Proteomics	University of Medicine & Dentistry of New Jersey	NIH - National Institutes of Health	155,000	9/30/2013
63487	54715 - Temperature Modeling Support Boundary Hydroelectric	Seattle City Light	Seattle City Light	76,065	12/31/2013
63454	Mercury Analysis - Olin Corporation	Olin Corporation	Olin Corporation	27,434	12/31/2013
63509	56654 - City of Greeley - Hg Analysis	City of Greeley - WPCF	City of Greeley - WPCF	10,983	12/31/2013
63610	62444 - Alyeska Work Order for 2012	Alyeska Pipeline Services Company	Alyeska Pipeline Services Company	95,293	12/31/2013
63739	61146 - High throughput screening of endocrine disruptors	EPA, Environmental Protection Agency	EPA, Environmental Protection Agency	1,200,000	9/30/2015
63494	55849 - Population-Climate Project	Population Action International	Population Action International	4,017	9/30/2013
63576	61262 - Nerospora quantitative proteomics study	University of California, Berkeley	British Petroleum	49,500	10/31/2012
63478	53806 - Modeling Post-2012 International Climate Policy Scen	Pew Center on Global Climate Change	Pew Center on Global Climate Change	18,796	12/31/2012
63747	62434 - Cardiac Metabolism and Protein Synthesis during Extr	Seattle Children's Research Institute	NIH - National Institutes of Health	12,000	12/31/2012
63525	59310 - Characterization of Thin Films for Mermistor Devices	Oregon State University	Navy, Office of Naval Research	35,000	12/31/2012
63532	59531 - Characterize the proteome response to hydrocodone	Genova Foundation	Army, Medical Research and Materiel Command	170,839	2/28/2013
63483	A Systems Biology Approach to Emerging Respiratory Viral Dis	University of Washington	NIH - Nat'l Inst of Allergy & Infectious Diseases (NIAID)	1,880,000	9/25/2013
63539	Blood plasma biomarker verification from early state breast	Fred Hutchinson Cancer Research Center	Susan G. Komen Breast Cancer Foundation	5,984	9/30/2013
63465	52792 - Support for GTSP 3	Chevron Environmental Management Company	Chevron Environmental Management Company	72,968	9/30/2013
63502	56191 - Optimal U.S. freight transport to reduce emissions	University of Illinois	EPA, Environmental Protection Agency	34,225	10/31/2013
63459	51834 - Support for GTSP Phase 3	ExxonMobil Corporation	ExxonMobil Corporation	463,201	12/31/2013
63472	53527 - Chairmanship of GOFD/GOLD	American Geophysical Union	NASA - National Aeronautics & Space Administration	90,089	4/13/2014
63914	61077 - High-Content High-Throughput Zebrafish Assays for Pr	Oregon State University	EPA, Environmental Protection Agency	450,000	1/31/2015
63522	Biomarkers for prostate cancer	University of Washington	NIH - National Cancer Institute	355,000	6/30/2015
63567	Microbiome Studies of Type 1 Diabetes	J. Craig Venter Institute	NIH - Nat'l Inst of Diabetes, Digestive, & Kidney Diseases	823,378	8/31/2015
63753	62860 - Gryphon Scientific	Battelle Columbus Operations	DHS - Department of Homeland Security	50,000	3/31/2013
64155	62631 - Support for Midwest Carbon Sequestration	Battelle Columbus Operations	Ohio Department of Development	10,000	10/31/2012