

ENVIRONMENTAL SERVICES EXPERIENCE

PROJECT EXPERIENCE

- 1. Project Name:** Base Realignment & Closure Program, Removal Actions, Zone 1

Contract No: DACA62-98-C-0084

References: Kevin D. Arthur, Contracting Officer's Rep., (804) 292-6651
U.S. Army Corps of Engineers, Norfolk District
Central Virginia Area Office
930 20th St., Fort Lee, VA 23801-1602

Contract Amount: \$240,840.73

Type of Project: Develop project documents including: work plan, sampling and analysis plan, site safety and health plan, construction quality control plan and schedule. Characterize, remove and dispose of approximately 8 tons of metallic debris. Remove and dispose of two electrical transformers (PCB). Characterize, remove and dispose of 20 drums of unknown contents. Characterize, remove and dispose of 200 cubic yards of contaminated soil (TPH, PCBs, asbestos, pesticides, and other unknowns). Remove and dispose of 2 oil/water separators and 2 underground storage tanks.

Location: Fort Pickett, VA

Performance Period: February 1999 to November 1999
- 2. Project Name:** Black & Veatch, North Penn Operable Unit 1

Contract No: BVSPC Subcontract 99-059-47000

References: John P. Taylor, P.E., (215) 928-2210
Black & Veatch
601 Walnut St., Suite 850W, Philadelphia, PA 19106-3307

Contract Amount: \$707,904.00

Type of Project: Removal and disposal of contaminated soil from three properties and removal and disposal of an underground storage tank from one property in Lansdale, PA. Soil contamination was from chlorinated volatile organic compounds, such as PCE, TCE and *cis*-1, 2-DCE and metals, such as cadmium, chromium, lead, nickel, vanadium, silver, selenium and zinc. Buried waste debris was also removed from one site. Work also involved soil erosion and sediment control, excavation, soil and liquid sampling and site restoration.

Location: North Penn Area 6 Site, Operable Unit 1, Lansdale, PA

Performance Period: October 1999 to March 2000
- 3. Project Name:** Asbestos Abatement/Building Demolition

Contract No: AE-10332-00-20

References: Mark Banks, Project Manager, (703) 516-2262
PB Dewberry
Facility Design & Construction Management
2101 Wilson Blvd., Suite 200, Arlington, VA 22201

Contract Amount: \$674,070.00

Type of Project: Work includes, but is not limited to, asbestos abatement of pipe fitting insulation, asbestos floor tile and mastic, asbestos containing fabric dryer rollers and pipe fitting insulation debris. Removal and disposal of bare steel underground storage tank and ancillary piping. Removal, transportation and disposal of tank contents (believed to be # 4 or 6 fuel oil). Removal and disposal of estimated 200 tons of petroleum contaminated soil. Removal and disposal of fluorescent lighting tubes and ballast. Removal and disposal of Freon in refrigeration units. Complete demolition of a multi-story industrial building.

Location: Proposed Location of Wilmington Job Corps Center, 9 Vandever Ave., Wilmington, Delaware

Performance Period: June 2000 to September 2000

4. **Project Name: Removal & Disposal of Petroleum Contaminated Soil**

Contract No: Purchase Order No. D000989

References: Edward McCusker, VP, Fiscal Affairs, (610) 932-1051
Lincoln University
P.O. Box 179
Lincoln University, PA 10352

Contract Amount: \$44,880.00

Type of Project: Remove and dispose of petroleum contaminated soil that was stockpiled from underground storage tank excavation by others. Remove and dispose of petroleum contaminated water that had accumulated in an open excavation area.

Location: Lincoln University, Chester County, PA

Performance Period: December 1999 to March 2000

5. **Project Name: Site Characterization of Fuel Spill Area & Delineation & Quantification of Buried Debris**

Contract No: Purchase Order Nos. D001762 & D010145

References: Edward McCusker, VP, Fiscal Affairs, (610) 932-1051
Lincoln University
P.O. Box 179
Lincoln University, PA 10352

Contract Amount: \$39,659.00

Type of Project: Interim site characterization of an area impacted by releases from a leaking underground storage tank. Install and sample three groundwater monitoring wells. Determine the groundwater flow direction and gradient at each well location. Prepare a site characterization report from data obtained from the monitoring wells and recommend additional information that will be needed to fully characterize the groundwater contamination. Conduct a topographic survey of areas in the vicinity of the boiler plant that have been used in the past to dispose of soil and construction debris. Excavate test pits and trenches to characterize and quantify the material that was disposed of in the vicinity of the boiler plant.

Location: Lincoln University, Chester County, PA

Performance Period: April 2000 to July 2000

6. **Project Name:** **Georgetown Cleaners Soil Remediation Interim Response**
Action Contract No: Purchase Order No. 400931900041
References: Wilmer Reyes, Project Manager, (302) 395-2600
Delaware Dept. of Natural Resources and Environmental Control
Div. Of Air and Waste Management
391 Lukens Drive
New Castle, DE 19720-2774
Contract Amount: \$146,160.20
Type of Project: Preparation of work, health & safety and shoring plans. Excavation and off-site disposal of approximately 275 tons of PCE contaminated soil. Application of potassium permanganate to promote in situ degradation of residual contaminants in the soil and groundwater in the source area. Installation of 3 new monitoring wells. Provide shoring/bracing of excavation. Backfill excavation and reestablish site vegetation. Preparation of Final Site Remediation report that contains documentation of soil removal data, monitoring well data and dewatering data.
Location: 305 N. Race St., Georgetown, DE
Performance Period: November 2000 to January 2001
7. **Project Name:** **Pre-placed Remedial Action Contract, Lead-Based Paint Abatement of World War II Structures**
Contract No: DACA31-00-D-0046, Delivery Order No. 0001
References: Anthony B. Felder, Project Engineer, (315) 772-2103
U.S. Army Corps of Engineers, New York
Fort Drum Resident Office
4895 Nininger St.
Fort Drum, NY 13602-5200
Contract Amount: \$75,943.00
Type of Project: Prepare a work plan documenting abatement protocols using a wet blast method for the asbestos abatement and an implementation schedule. Abate lead-based paint from the exterior wood of two structures using a wet blast method. Contain all emissions related to the work effort to include air and debris to ground and perform any necessary cleanup and abatement of uncontained wastes. Obtain confirmatory composite surface samples of abated surfaces. Prepare a final summary report that documents all activities performed, photographs of the abatement work, post-abatement analysis results and disposal documentation.
Location: Fort Drum, NY
Performance Period: October 2000 to November 2000
8. **Project Name:** **Dale Enterprises Tank Farm Groundwater Pump & Treat**
Contract No: DACA31-00-D-0046, Delivery Order No. 0002
References: Bruce R. Ware, Contracting Officer's Tech. Rep., (410) 671-6003
U.S. Army Corps of Engineers, Baltimore
Environmental Remediation Resident Office

P.O. Box 56
Aberdeen Proving Ground, MD 21010-0056

Contract Amount: \$248,525.93

Type of Project: Perform engineering and cost evaluation of alternatives to address LNAPL containment consisting of: an assessment of the existing oil water separator (OWS) and comparison with both a new aboveground and underground OWS. Provide a report with cost data and sketches. Perform monitoring of water levels on site to evaluate tidal variations on groundwater levels. Design and perform a pumping test to evaluate the effects of pumping groundwater on containment of the LNAPL contamination. Design the groundwater pumping system for the capture of the LNAPL contamination. Determine the proper size for the OWS. Install groundwater extraction pumps and associated electrical, controls, and piping to extract groundwater and transfer it to the treatment system. Install OWS and associated electrical, piping and controls to treat the extracted groundwater and discharge it to surface water. Provide startup of the pump and treat system and training for system operation to the owner of the site.

Location: Salisbury, MD

Performance Period: November 2000 to March 2001

9. Project Name: Pre-placed Remedial Action Contract, Lead-Based Paint Abatement of World War II Structures

Contract No: DACA31-00-D-0046, Delivery Order No. 0004

References: William G. Ebersbach, Resident Engr., (315) 772-6313
U.S. Army Corps of Engineers, New York
Fort Drum Resident Office
4895 Nininger St.
Fort Drum, NY 13602-5200

Contract Amount: \$64,621.34

Type of Project: Prepare a work plan documenting abatement protocols using a wet blast method for the asbestos abatement and an implementation schedule. Abate lead-based paint from the exterior wood of one structure using a wet blast method. Option to abatement two additional structures upon availability of funding. Contain all emissions related to the work effort to include air and debris to ground and perform any necessary cleanup and abatement of uncontained wastes. Obtain confirmatory composite surface samples of abated surfaces. Prepare a final summary report that documents all activities performed, photographs of the abatement work, post-abatement analysis results and disposal documentation.

Location: Fort Drum, NY

Performance Period: October 2001 to April 2002

10. Project Name: Helen Chambers Park Response Action

Contract No: P.O. 40 09032900251

References: Ann L. Breslin, Project Manager, (302) 395-2610

State of Delaware
Dept. of Natural Resources and Environmental Control
Site Investigation and Restoration Branch
391 Lukens Drive
New Castle, DE 19720

Contract Amount: \$176,686.00

Type of Project: Preparation of site specific Health and Safety Plan and Sediment and

Erosion Control Plan. Establishment of site security including warning signs and temporary fencing around excavation area. Excavation, loading, transportation, and disposal of approximately 600 tons of arsenic contaminated soil and building debris. Restoration of excavated area to original condition.

Location: Wilmington, DE

Performance Period: July 2002 to August 2002

11. Project: Soil Removal

Contract No: AE-10332-00-20, Change Directive Nos. 2 & 3

References: Mark Banks, Project Manager, (703) 516-2262
PB Dewberry
Facility Design & Construction Management
2101 Wilson Blvd., Suite 200, Arlington, VA 22201

Contract Amount: \$492,188.28

Type of Project: Load, transport and dispose of off-site contaminated soil located in an on-site stockpile. Remove large debris from stockpile of soil to remain on-site. Relocate the portion of stockpile free of large debris.

Location: Job Corps Center Site, Wilmington, DE

Performance Period: September 2002 to October 2002

12. Project: Lead-Based Paint Abatement

Contract No: DACA31-00-D-0046, D.O. #0012

References: Russell E. Marsh, COR, (410) 962-5672
U.S. Army Corps of Engineers
P.O. Box 1715
Baltimore, MD 21213

Contract Amount: \$33,610.00

Type of Project: Prepare work plan, CQC plan and Health And Safety plan. Conduct lead-based paint survey using XRF method to document lead levels. Install critical barriers on doors, windows and vents. Install negative air pressure machines in the containment area. Scrape loose lead paint chips from walls and ceiling and encapsulate all abated surface areas with lead encapsulant. Conduct air monitoring during the abatement and take clearance air sample before containment is removed. Collect lead-dust wipe samples for laboratory analysis for lead by atomic absorption. Paint all abated areas.

Location: Fort McHenry, Md

Performance Period: September 2003 to October 2003

13. **Project Name:** **Removal and Disposal of Underground Storage Tanks**
Contract No: DACA65-97-C-0140
References: William Werntges, Project Engineer, (717) 770-7312
U.S. Army Corps of Engineers
Harrisburg Area Office
285 18th St., New Cumberland, PA 17070
Contract Amount: \$537,063.00
Type of Project: Furnish all labor, materials, equipment for the removal of 11 underground storage tanks, ranging in size from 550 to 10,000 gallons, and associated piping. Install 5 aboveground storage tanks, ranging in size from 1,000 to 10,000 gallons in size, and associated piping. Install one 550 gallon waste oil tank. Dispose of any residual fuel products. Conduct soil and groundwater sampling to determine the extent of any contamination. Prepare underground storage tank closure reports for submission to PA Department of Environmental Protection.
Location: Various Army Reserve Centers located throughout PA
Performance Period: June 1998 to June 1999
14. **Project Name:** **Fuel Station & UST Removal**
Contract No: T0379-01-05C01
References: Robert Butts, (609) 530-5446
NJ Dept. of the Treasury
Div. Of Property Management & Construction
50 Barrack St., P.O. Box 235, Trenton, NJ 08625-0235
Contract Amount: \$95,621.37
Type of Project: Construct new fueling facility consisting of 1 - 4,000 gallon vaulted gasoline aboveground storage tank and 1 - 4,000 gallon vaulted diesel aboveground storage tank, fuel dispensers, card reader, tank monitoring system, warning signs, emergency phone system, concrete pads, bollards, fencing and site restoration. Excavate and dispose of petroleum contaminated soil. Remove and dispose of unusable product, sludge and oily water, concrete and asphalt debris and contaminated groundwater. Remove and dispose of existing underground fuel tanks
Location: Deepwater Road Maintenance Crew Facility, Carney's Point Township, Salem County, New Jersey
Performance Period: October 1999 to December 1999
15. **Project Name:** **Removal of Underground Storage Tank & Related Work**
Contract No: P.O. Number 147-003-S1
References: Thomas J. Nocella, Engineering Tech. (215) 656-5815
U.S. General Services Administration
Public Buildings Service/Region 3
100 Penn Square East, Philadelphia, PA 19107
Contract Amount: \$49,450.00

Type of Project: Cleaning and abandonment/closure in-place of the existing 20,000 gallon, steel underground storage tank, including vacuum truck, transport, disposal of existing oil product, backfill, testing, soil sampling, and all associated piping system. Complete removal of an existing 300 pound LP tank, including removal of all associated piping to the existing duplex pump set. Furnish and install 1,000-gallon double-wall fiberglass tank, including all associated piping, gauges and appurtenances to connect to the existing duplex pump set. Install Veeder Root tank monitoring system. Paint approximately 800 linear feet of natural gas and fuel oil piping in boiler room. Label all piping in accordance with ASME A13.1.

Location: J. Caleb Boggs Courthouse & Federal Building, Wilmington, Delaware

Performance Period: October 1999 to April 2000

16. Project Name: UST & Transformer Removal

Contract No: Nobis Project No. 67014

References: Scott Harding, Project Manager, (978) 683-0891
Nobis Engineering, Inc.
One Griffin Brook Drive, Suite 204
Metuchen, MA 01844

Contract Amount: \$49,007.57

Type of Project: Remove and dispose of 15 non-PCB transformers, 3 PCB transformers, 2 underground fuel oil storage tanks and site restoration.

Location: Former NIKE Battery PH-41/43, Berlin, New Jersey

Performance Period: July 1999 to July 2000

17. Project Name: Underground Storage Tank Removal

Contract No: DACA31-01-P-0431

References: Joseph Bunton, Contracting Officer's Rep., (703) 607-8204
Environmental Officer
Superintendent of Arlington National Cemetery
Warehouse Building 123D
Arlington, VA 22211-5003

Contract Amount: \$15,616.53

Type of Project: Excavate and remove one (1) - 10,000-gallon underground storage tank including any concrete and asphalt pavement. Dispose of any remaining gasoline in tank. Dispose of any contaminated soil. Remove all associated tank piping to include existing gasoline pump, concrete island and all associated electrical power conduit and wiring and tank sensor conduit and wiring terminating at the power disconnect switch. Collect three (3) soil samples from the tank excavation for analysis of TPH, DRO and GRO. Restore excavated area to original condition. Prepare and submit tank closure report and VA UST Notification form.

Location: Arlington National Cemetery, VA

Performance Period: February 27 to April 28, 2001

- 18. Project Name:** **Underground Storage Tank Removal and Closure**
Contract No: None
References: Bill Chaffee, (610) 659-5157
Vice President of Franchise Development
Maaco Enterprises, Inc.
381 Brooks Road
King of Prussia, PA 19406
Contract Amount: \$49,413.59
Type of Project: Excavate and remove two (2) underground storage tanks (200-gallons & 500-gallons). Dispose of any remaining tank liquids. Dispose of any contaminated soil. Remove all associated tank piping. Collect two (2) soil samples from each tank excavation for analysis for used motor parameters. Restore excavated area to original condition. Prepare and submit tank closure report to MACCO.
Location: MACCO Facility, 7673 Frankford Ave., Philadelphia, PA
Performance Period: March to May 2001
- 19. Project Name:** **Petroleum Storage Tank Services**
Contract No: DACA31-00-D-0046, Delivery Order No. 0003
References: Glenn R. Morsey, Admin. Contr. Officer, (703) 806-3767
Department of the Army
Capital Area Office
P.O. Box 89, 6050 1st St.
Fort Belvoir, VA 22060-5500
Contract Amount: \$131,941.66
Type of Project: Remove one 3,000-gallon underground storage tank (UST) and associated fuel lines containing #2 fuel oil at Building 5089. Excavate, remove and dispose of any contaminated soil at UST location. Install one 2,000-gallon aboveground storage tank at Building 5089 and connect to existing boiler. Prepare closure report for the removal of a non-regulated UST. Remove and dispose of 1694 tons of petroleum contaminated soil stockpiled at the 2200 Area.
Location: Ft. Belvoir, VA, Bldg. 5089 and 2200 Area
Performance Period: March to June 2001
- 20. Project Name:** **Underground Storage Tank Removal**
Contract No: DACW31-01-P-03067
References: Joseph Bunton, Contracting Officer's Rep., (703) 607-8204
Environmental Officer
Superintendent of Arlington National Cemetery
Warehouse Building 123D
Arlington, VA 22211-5003
Contract Amount: \$9,789.92
Type of Project: Excavate and remove one (1) - 1,000-gallon underground storage tank including concrete pad. Dispose of any remaining product in tank. Dispose of any contaminated soil. Remove all associated tank piping to include existing gasoline pump,

concrete island and all associated electrical power conduit and wiring and tank sensor conduit and wiring terminating at the power disconnect switch. Collect two (2) soil samples from the tank excavation for analysis of TPH, DRO and GRO. Restore excavated area to original condition. Prepare and submit tank closure report and VA UST Notification form.

Location: U.S. Soldiers' and Airmen's Home, Washington, D.C.

Performance Period: May to June 2001

21. Project Name: Removal of USTs at Richardson House and Ashton Property and Inventory & Clean Up of Hazardous Waste at Former Verna Property

Contract No: 0303-01-100002, Order No. P4370010021

References: Judie C. Scott, Purchasing Agent, (540) 371-0801

U.S. Dept. of the Interior, National Park Service
Fredericksburg and Spotsylvania NMP, Admin. Office
120 Chatham Lane
Fredericksburg, VA 22405

Contract Amount: \$29,527.00

Type of Project: Prepare Site Characterization Report and remove one (1) 1,000 gallons

heating oil tank at Richardson House. Prepare Site Characterization Report and remove one (1) 500 gallon gasoline UST and 400 gallon heating oil AST at Ashton Tract. Identify and prepare inventory of hazardous materials at the Verna Tract. Remove and clean up materials, including hazardous materials, at Verna Tract.

Location: Fredericksburg and Spotsylvania National Military Park

Performance Period: October to December 2001

22. Project Name: Replace Fuel Tanks

Contract No: N62477-01-M-2564

References: Robert Dungan, Contracting Officer, (540) 653-3360

Resident Officer In Charge Of Construction
Bldg. 108, Code TKO
Dahlgren, VA 22448-5000

Contract Amount: \$26,312.97

Type of Project: Provide all labor and materials to disconnect existing tanks, empty existing tanks, hand dig around connection points and remove existing tanks, dispose of tanks and contents. Dispose of contaminated soil. Install new underground storage tank and connect to existing boiler/furnace.

Location: Dahlgren, VA

Performance Period: July to October 2001

23. **Project Name:** Old Hagerstown Armory UST Closure
Contract No: M-741-020-003
References: Allen Clift, Maintenance Engineer, (410) 576-6066
State of Maryland, Military Department
Fifth Regiment Armory
Baltimore, MD 21201-2288
Contract Amount: \$20,735.00
Type of Project: Remove and dispose of two 6,000 gallon underground fuel storage tanks, tank liquids and sludge, vent pipes and dispensing equipment. Excavate, remove and dispose of contaminated soil. Restore site to existing conditions.
Location: Hagerstown, MD
Performance Period: April 2002 to June 2002
24. **Project Name:** Underground Storage Tank Removals at DC Waterfront
Contract No: DACA31-00-D-0046, D.O. #0005
References: Paul Parsonneault, C.O.R., (703) 806-3767
Department of the Army
Capital Area Office
P.O. Box 89
6050 1st Street
Fort Belvoir, VA 22060-5500
Contract Amount: \$140,518.35
Type of Project: Furnish all labor, materials and equipment necessary for locating and removing four underground storage tanks (USTs), collection and testing of soil samples, disposal of tank, tank liquids, and any contaminated soil to a maximum of two (2) times the tank volume, related ancillary and miscellaneous tank features. Prepare work plan and site specific health and safety plan. Tank sizes are 2,500 gallons, 2,500 gallons, 4,000 gallons and 30,000 gallons.
Location: District of Columbia Southwest Waterfront
Performance Period: September 2002 to January 2003
25. **Project Name:** Petroleum Contaminated Soil Removal and Tank Removal Services
Contract No: DACA31-00-D-0046, D.O. #0006
References: Glenn R. Morsey, Admin. Contr. Officer, (703) 806-3767
Department of the Army
Capital Area Office
P.O. Box 89
6050 1st Street
Fort Belvoir, VA 22060-5500
Contract Amount: \$86,263.09

Type of Project: Furnish all labor, materials and equipment necessary for petroleum contaminated soil removal at Buildings 2417 and 1805, removal of regulated 1,000 gallon aboveground storage tank at Building 709, removal of six (6) 32,000 gallon underground storage tanks at Building 1422 and removal of 2,000 gallon UST at Building 1745. Prepare work plan and site specific health and safety plan.

Location: Fort Belvoir, VA

Performance Period: September 2002 to September 2003

26. Project: Underground Storage Tank Removals

Contract No: DACA31-00-D-0046, D.O. #0007

References: James P. Moore, C.O.R., (570) 895-7052
U.S. Army Corps of Engineers

Northeastern Resident Office

P.O. Box 48

Tobyhanna Army Depot, PA 18466

Contract Amount: \$80,676.43

Type of Project: Furnish all labor, materials and equipment to remove and dispose of three (3) underground storage tanks (UST) (2,500 gallons, 3,000 gallons and 1,500 gallons) and ancillary piping and hardware. Collect and analyze soil samples. Prepare work plan and site specific health and safety plan. Perform ground penetrating radar survey at the UST located next to Bldg. 816. Locate depth, location and position of UST. Restore site to conditions before work started. Prepare closure reports.

Location: Tobyhanna Army Depot, PA

Performance Period: September 2002 to December 2003

27. Project: Replace Fuel Tanks at Quarters

Contract No: N62477-03-M-2534

References: Robert Dungan, Contract Specialist
NSWC, Dahlgren Division
Bldg. 108, Code TKO
Dahlgren, VA 22448-5000

Contract Amount: \$31,648.00

Type of Project: Provide all labor, equipment, materials required to disconnect

existing tanks, empty tanks of contents, remove existing tanks and any contaminated soil,

dispose of tanks, contents and contaminated soil. Install fuel tanks and connect supply and return lines to heat source. Restore area to original conditions.

Location: NSWC, Dahlgren, VA

Performance Period: July 2003 to August 2003

- 28. Project: Petroleum Contaminated Soil Removal Services and Tank Removal Services**
Contract No: DACA31-00-D-0046, D.O. #0011
References: Glenn R. Morsey, Admin. Contr. Officer, (703) 806-3767
Department of the Army
Capital Are Office
P.O. Box 89
6050 1st Street
Fort Belvoir, VA 22060-5500
Contract Amount: \$91,118.00
Type of Project: Furnish all materials, equipment and labor to remove petroleum contaminated soil and/or underground storage tank removals at Buildings 211 and 3230. Collect and analyze soil samples. Prepare site-specific work and health & safety plans. Excavate and dispose of petroleum contaminated soil. Prepare a closure report to document underground storage tank removal contaminated soil disposal activities. Restore site to conditions before work started.
Location: Fort Belvoir, VA
Performance Period: August 2003 to July 2004
- 29. Project: UST Abandonment**
Contract No: None
References: Tevfik Arguden, Ph.D., P.G., (401) 289-0475
Blackstone Consulting
12 Milton Road
Barrington, RI 02806
Contract Amount: \$24,666.00
Type of Project: Perform confined space entry of the tank to inspect the tank interior and drill five (5) holes through the tank to collect soil samples. Analyze soil samples for total petroleum hydrocarbons (TPH) by EPA method 8015M. Prepare a tank interior inspection report. Upon receipt of tank closure permit, abandon tank in place and fill tank with concrete slurry/flow able fill. Notify all appropriate government agencies of the tank closure operation. Prepare a final closure report including DC UST closure notification form.
Location: Washington, DC
Performance Period: December 2003 to February 2004
- 30. Project: UST Abandonment**
Contract No: None
References: Tevfik Arguden, Ph.D., P.G., (401) 289-0475
Blackstone Consulting
12 Milton Road
Barrington, RI 02806
Contract Amount: \$60,267.00

Type of Project: Perform ground penetrating radar (GPR) survey to locate abandoned 2 underground storage tanks (UST) located in the ground floor of a parking garage. Prepared a report presenting the GPR survey results. Performed exploratory excavation to exactly locate the USTs. Perform confined space entry of the tank to inspect the tank interior and drill holes through the tank bottom to collect soil samples. Analyze soil samples for total petroleum hydrocarbons (TPH) by EPA method 8015M. Prepare a tank interior inspection report. Upon receipt of tank closure permit, abandon tank in place and fill tank with concrete slurry/flow able fill. Notify all appropriate government agencies of the tank closure operation. Prepare a final closure report.

Location: 1602-04 Chancellor St., Philadelphia, PA

Performance Period: April 2004 to June 2004

31. **Project:** **Replace Fuel Oil Storage System**
Contract No: P-005-042-010 / 001B4900668
References: Ed George, (301) 687-7071
Dept. of General Services, Western Area Office
Strangle Building
Frostburg State University
Frostburg, MD 21352
Contract Amount: \$44,601.00
Type of Project: Provide all labor, equipment, materials, permits, etc. to remove/replace the existing fuel oil storage system for the Shop Building. Remove one 5,000-gallon underground storage tank and associated piping. Install one 2,000-gallon aboveground storage tank, to include concrete pad, steps, piping, etc., necessary to make entire system operational in accordance with applicable code requirements. Patch existing asphalt pavement where old tank/piping were removed and new concrete pad/piping were installed. Remove and properly dispose of all excess materials, debris, etc. Restore site to pre-project conditions. Prepare a final closure report.
Location: New Germany State Park, Garrett County, Maryland
Performance Period: March to June 2004
32. **Project:** **Replace 2,000-Gallon UST & Remove 2 Additional USTs**
Contract No: HT-000-041-001 / 001B4900788
References: Troy E. Gruber, Jr., (301) 274-0771
Dept. of General Services
Charlotte Hall Veterans Home
29431 Charlotte Hall Road
Charlotte Hall, MD 20622
Contract Amount: \$39,320.00
Type of Project: Provide all labor, equipment, materials, permits, etc. to remove/replace the existing fuel oil storage system for the Shop Building. Remove three existing underground storage tanks and piping systems and related

accessories. Test for, remove, and legally dispose/remediate petroleum contaminated soil as directed by MD Dept. of Environment. Two of the existing USTs are abandoned and the third is an existing 2,000-gallon underground heating oil tank used to supply heating oil for the Mansion Building. Install one complete 2,000-gallon underground storage tank (UST is government furnished) and piping systems, related accessories, and testing, all as indicated. Provide all related clearing, excavation, trenching, de-watering, sheeting/shoring/bracing, bedding, backfill, compaction, paving, concrete pads, grading, seed/sod, landscaping, site restoration, controls work, electrical work, and testing as required for a complete installation. Remove and dispose of all residual fuel in existing tanks.

Location: Jefferson-Patterson Park and Museum, St. Leonard, Maryland

Performance Period: June to July 2004

33. **Project:** **Clean Oil/Water Separators (OWS) and Sump**
Contract No: GS-10F-0361N/W912KN-04-F-0095
References: Lt. Rich DeFeo, (609) 383-6303
New Jersey Air National Guard
177 Fighter Wing
Environmental Office
400 Langley Road, Bldg 52
Egg Harbor Township, NJ 08234-9500
Contract Amount: \$20,000.00
Type of Project: Provide all plant, labor, supplies and equipment necessary to clean Three (3) – 1,000-gallon OWS, one (1) – 2,500-gallon OWS, one (1) – 10,000-gallon OWS and one sump. Cleaning will consist of removing the oil build-up on the surfaces of OWS walls and coalescer plates with steam or high pressure wash against the OWS walls and coalescer plates. Dispose of all liquids generated during the cleaning process.
Location: NJ Air National Guard Base, Egg Harbor Township, NJ
Performance Period: June 2004
34. **Project:** **UST Piping Upgrades**
Contract No: GS-10F-0361N/542-C40159
References: John B. Sauser, (610) 384-7711, ext. 3216
Contracting Officer
Dept. of Veterans Affairs
VA Medical Center
1400 Blackhorse Hill Road
Coatesville, PA 19320
Contract Amount: \$54,938.17
Type of Project: Provide all labor, material, equipment, and supervision to perform piping upgrades for three underground diesel fuel tanks to bring the tanks into compliance with PADEP UST requirements. Excavate and backfill for

piping upgrades and concrete work. Collect soil samples from beneath removed piping and analyze for parameters as outlined in PADEP tank regulations dated April 1, 1998. Prepare line closure summary reports for submission to PADEP. Install a new piping sump onto each tank with one piping sump sensor. Connect piping sump sensors into the existing Veeder Root automatic tank gauging system. Install two 1" Environ style double-wall supply and return lines from tanks' piping sumps to transition boxes on outside of buildings. Install rigid piping through walls to day tanks adjacent to emergency generators. Install suction stub assembly in each tank, in-line swing check valve in suction lines at each day tank, and install steel manhole with bolt on lid over top of each piping sump. Install concrete reinforced slab around each piping sump. Install conduit and wiring for operation of piping sensors. Perform precision tests on three single-wall fiberglass tanks. remove and dispose of any contaminated soil.

Location: VA Medical Center, Coatesville, PA

Performance Period: July 2004

- 35. Project:** BOMARC Backfill Project
Contract No: DACA31-00-D-0046, D.O. #0015
References: Steve Bowers, (410) 671-6003
Resident Engineer
U.S. Army Corps of Engineers, Baltimore
Environmental Remediation Resident Office
P.O. Box 56

Building E-1356-IT
Bush River & Scully Roads
Aberdeen Proving Ground, MD 21010
Contract Amount: \$698,583.00
Type of Project: Provide all labor, material, equipment, and supervision to backfill (22,000 cubic yards) excavated areas that had contaminated soil and three launch shelters removed during the cleanup of the BOMARC Missile Accident Site. Analyze imported soil (every 500 cubic yards) for BTEX, TPH and TCLP. Backfill will be compacted by movement of construction equipment and backfilled areas will be restored by hydro seeding and have the same ground elevations as the surrounding original ground elevation prior to the excavation. Provide maintenance of existing erosion control (silt fence and hay bales) at the excavated areas. Remove and dispose silt fence and hay bales once the backfilled areas are fully established with grass. Remove any remaining temporary orange construction fencing that was placed during the cleanup.
Location: McGuire Air Force Base, NJ
Performance Period: June 2006 to August 2006
- 36. Project:** UST Closure at Building 1124 and Other Site Closures
Contract No: DACA31-00-D-0046, D.O. #0016
References: Glenn R. Morsey, Admin. Contr. Officer, (703) 806-3767

Department of the Army
Capital Are Office
P.O. Box 89
6050 1st Street
Fort Belvoir, VA 22060-5500

Contract Amount: \$70,365.99

Type of Project: Provide all labor, material, equipment, and supervision to remove and dispose of tank contents and to decontaminate the tank. Tank decontamination shall consist of: 1. decontaminate tank system with mineral spirits or other non-hazardous material; 2. flush tank system and lines back to tank with mineral spirits or other non-hazardous material three separate times; 3. flush tank system and lines back to tank with a trisodium phosphate solution; 4. flush tank system and lines back to tank with facility water; 5. steam clean tank system; and 6. rinse tank system with a high-pressure sprayer. All wash fluids and/or sludge shall be contained, collected and properly disposed off-site. Tank decontamination may be repeated as necessary until tank is determined clean by sample results.

Location: Fort Belvoir, VA

Performance Period: September 2004 to September 2005

37. Project: Camp Pedricktown Electrical Transformer Survey

Contract No: DACA31-00-D-0046, D.O. #0018

References: Steve Bowers, COTR, (410) 671-6003

U.S. Army Corps of Engineers, Baltimore
Environmental Remediation Resident Office
P.O. Box 56
Bldg. E-1356-IT
Bush River & Scully Roads
Aberdeen Proving Ground, MD 21230

Contract Amount: \$134,328.41

Type of Project: Provide all labor, material and equipment to survey, test, and photo-document 59 pole-mounted and 5 pad-mounted transformers. Remove and dispose of PCB containing transformers that are not fit for use. Remove and dispose of leaking PCB containing fluorescent light ballast. Remove and dispose of non-leaking PCB containing fluorescent light ballast. The transformer survey will consist of the following activities: survey/inspect each transformer; identify number and label each transformer; sample all transformers that have not been sampled by others; determine the operational status of each transformer; if transformer is inactive determine if transformer is fit for use; photograph each transformer. Remove and dispose of inactive and leaking transformers.

Location: Camp Pedricktown, NJ

Performance Period: March 28 to April 27, 2005

38. Project: Soil Sampling Analysis, Vortex Chamber Project

Contract No: DACA31-00-D-0046, D.O. #0020
References: Steve Bowers, COTR, (410) 671-6003
U.S. Army Corps of Engineers, Baltimore
Environmental Remediation Resident Office
P.O. Box 56
Bldg. E-1356-IT
Bush River & Scully Roads
Aberdeen Proving Ground, MD 21230

Contract Amount: \$42,512.30

Type of Project: Prepare a health and safety plan. Obtain 22 soil samples from the Sensor Pad, Vortex Chamber Building and Target Pad areas. Locate all soil sample locations using GPS. Sample analysis will be performed by a laboratory acceptable to Aberdeen Proving Ground Safety Office. UXO detection support will be provided by the contractor during sample excavation operations.

Location: M-Field, Aberdeen Proving Ground, MD

Performance Period: June 2005 to October 2005

39. Project: Phase II Site Investigation of the Former BRAC Properties in the 5600 Area and PCB Remediation at the Federal Corrections Institute, Fort Dix, New Jersey

Contract No: DACA31-00-D-0046, D.O. #0022

References: Steve Bowers, COTR, (410) 962-6793
U.S. Army Corps of Engineers, Baltimore
P.O. Box 1715
Baltimore, MD 21203

Contract Amount: \$94,615.84

Type of Project: Delineate soil contamination at Fac. 5675. This may include PCB, TPH, zinc and cadmium sampling and analysis sufficient to satisfy the requirements of NJAC 7:26E and address outstanding regulatory comments as they pertain to this location. Delineate groundwater at Fac. 5675. This may include PCE and PCB sampling and analysis sufficient to satisfy the requirements of NJAC 7:26E and address outstanding regulatory comments as they pertain to this location. This action shall also take into consideration the possibility that PCE in the groundwater may have vertical and horizontal migration components. Prepare a NJDEP Declaration of Environmental Restriction/Deed Notice will be prepared for the soil contamination located beneath the concrete pad at Facility 5675.

Assess the immediate area at Transformer No. T900 for indications of a dielectric fluid release. Determine the extent of contamination if a release has occurred. Sample, remove and dispose of the black, tar-like stain previously identified at the north end of Transformer No. 901. After tar-like material has been removed, the integrity of Transformer No. T901 vault will be inspected; photographed and concrete chip and/or wipe post-removal samples will be collected and tested. If the integrity of the vault has been comprised, soil samples will be collected to assess the extent of contamination.

At the 5700 and 5800 Areas (federal Corrections Institute), PCB contamination detected at utility pole no. 200 and electrical transformer pad no. 5756 will be remediated in accordance with Federal and state law. The sites will be remediated to a condition equivalent to that prior to remediation. Prepare operational plans including a work plan, sampling and analysis plan, quality assurance plan, and a site safety and health plan. Prepare other plans and reports including a remedy selection report and a remedial action report as required by NJAC 7:26E.

Location: 5600, 5700 & 5800 Areas, Fort Dix, New Jersey
Performance Period: September 2005 to October 2006

**40. Project: Wilmington Housing Authority
(WHA) Southbridge Project – UST Removals**

Contract No: Subcontract 25-70
References: Andrew Diffley
Design Contracting, Inc.
P.O. Box 25125
Wilmington, DE 19899

Contract Amount: \$88,987.00

Type of Project: Remove and dispose of five (5) underground storage tanks. Tanks are estimated to be 12,000 gallon capacity each. Tanks previously contained heating oil, and the tanks were abandoned in-place by cutting them open and filling them with sand/soil to top of each tank. It is not known whether the tanks were cleaned prior to their abandonment. All underground utilities will be located before any excavation starts. Petroleum contaminated soil encountered during the excavation will be stockpiled separately on plastic. Tanks will be cleaned prior to removal from the site for disposal. Collect soil samples to document that all contaminated soil if any has been removed. After excavation is completed, backfill the excavation with approved, clean backfill. Backfill shall be placed in horizontal layers not exceeding eight inches in loose depth. Each layer will be compacted to a density of 955 of maximum density in accordance with ASTM D1557. Dispose of tanks, contents and any contaminated soil in accordance with all applicable laws and regulations.

Location: WHA Southbridge Housing Project
Performance Period: December 2005 to January 2006

41. Project: UST Removals at Rossell Village

Contract No: 10474-08859
References: Mike Shenkle
Clark Realty Builders, LLC
9910 Tracy Loop, Bldg. 766
Fort Belvoir, VA 22060

Contract Amount: \$168,660.00

Type of Project: Remove and dispose of thirty (30) underground storage tanks. Tanks are estimated to be 1,000 gallon capacity each. Tanks previously contained heating oil. All underground utilities will be located before

any excavation starts. Petroleum contaminated soil encountered during the excavation will be stockpiled separately on plastic. Tanks will be cleaned prior to removal from the site for disposal. Collect soil samples to document that all contaminated soil if any has been removed. After excavation is completed, backfill the excavation with approved, clean backfill. Backfill shall be placed in horizontal layers not exceeding eight inches in loose depth. Each layer will be compacted to a compaction rate of 85% in turf areas and 95% in hardstand areas. Dispose of tanks, contents and any contaminated soil in accordance with all applicable laws and regulations.

Location: Rossell Village Housing, Fort Belvoir, VA

Performance Period: May 2006 to June 2006