STATEMENT OF WORK FOR
ENVIRONMENTAL SAMPLING AT
HOMESTEAD AIR RESERVE BASE FLORIDA

SECTION I:
GENERAL REQUIREMENTS

1.0 DESCRIPTION OF SERVICES

Scope of Work: Contractor shall provide all labor, materials, equipment, transportation, and tools necessary to provide monthly, seasonal and on-call environmental analytical services for Homestead Air Reserve Base (HARB), Florida (as coordinated and designated through the Environmental Flight (CEV) of the Mission Support Group, Base Civil Engineering Section). Analytical services and collection methods shall be performed in accordance with applicable local, state, and federal regulations. Services shall include but are not limited to laboratory analyses and/or collection of environmental samples, consultation, analysis reports, collection records, Quality Assurance, and Quality Control (QA/QC) reports. Sampling parameters for regular quarterly and seasonal samples will be as indicated in paragraph 2.4 and will be taken from sampling points provided by CEV personnel.

1.2 HOURS OF OPERATION

On-site work performed under this contract shall be accomplished on weekdays, Monday through Friday, between the hours of 7:30 A.M. and 4:30 P.M. However, the Contractor may perform work necessary to fulfill the requirements of this contract during any day and time, as may be necessary so long as this schedule has been approved by the Contracting Office a minimum of three days in advance. Work outside of normal duty hours shall be the exception and not the rule.

1.3 QUALIFICATIONS

The Contractor and any sub-contractors shall be sufficiently qualified to perform the work as outlined herein prior to the bid date and shall have all appropriate licenses and/or certifications necessary. The Contractor shall be responsible for proper training of the sampling personnel and shall provide written instructions to their personnel on the various requirements or methods of environmental sampling outlined in this Statement of Work, as appropriate. Laboratories analyzing samples from Homestead ARB must be NELAC certified as well as also having all necessary County, State and Federal certification in order to run the necessary analyses.

1.4 SITE VISIT

Prospective bidders are highly encouraged to schedule a site visit due to the complexity/security of this project. The date and time for the site visit, along with additional instructions, has been provided as a separate document in this bid package.

In order to obtain access to the installation, prospective bidders shall furnish a list of their personnel consisting of each individual's full name, social security number and a copy of their driver’s license and citizenship (U.S. or legal alien) and vehicle information (registration number, make, model, color, year as well as proof of insurance). This information must be provided no later than 14 calendar days prior to the scheduled site visit. Prospective bidders not providing this information 14 days prior to the scheduled site visit will be denied access. Individual appointments will not be accommodated.

1.5 SECURITY

Homestead ARB is a limited access federal facility. Entry to the base is controlled and security is enforced. To facilitate enty to the base and work site, the Contractor shall be required to furnish a list of their service personnel and/or any subcontractor personnel to include the employee's name, social security number and citizenship (U.S. or legal alien) and vehicle registration number, make, model, color, and year of vehicle along with current proof of insurance.

The information noted above shall be provided to the Homestead ARB Contracting Office within 14 days of award of this contract. Any additions or deletions to this listing shall be provided five business days prior to any service performance to ensure prompt access to the base work site.

After processing and receiving access approval, the Contractor shall ensure that all employees, subcontractors and other support personnel receive a temporary "Visitors Pass" from Security Forces. Once personnel have properly registered for base access, the Contractor shall ensure that said personnel remain within the designated work limits as defined by the contract representative. Individual personnel and each vehicle will be given a pass valid for the project duration. Passes are required to be carried on the person and within the vehicle at all times while on the installation. The pass is to be surrendered at project termination or completion. It should be noted that some sampling sites will require the contractor to access the sampling site while escorted by a Base representative.

Homestead ARB Security Forces reserves the right to check all personnel and vehicles entering or exiting the base or any on site facility. Therefore, compliance with the aforementioned requirements will minimize any delays in gaining access to the work site. The Contractor is cautioned that any delays encountered or cost incurred due to noncompliance with these requirements will not be the responsibility of the Government.

1.6 FIRE PROTECTION

The Contractor shall take all necessary precautions to ensure all operations are performed in a fire-safe manner and that they are in strict compliance with all applicable local, state and federal codes and regulations. Should an emergency arise, the contractor will immediately contact the Homestead ARB Fire Department at (786) 415-7117.

1.7 SAFETY

All work shall be accomplished in accordance with OSHA 29 CFR 1910, OSHA 29 CFR 1926 and applicable AFOSH Standards. Additionally, the Contractor shall conform to any restrictions as may be outlined by the Base Safety Officer.

1.9 DEFINITIONS

The following definitions apply to this Statement of Work.

AGE – Aerospace Ground Equipment

ARB - Air Reserve Base

BOD - Biochemical Oxygen Demand

CEV - Civil Engineering Environmental Flight

COD - Chemical Oxygen Demand

DERM – Miami Dade County Regulatory and Economic Resources, Environmental Resources Management

DO - Dissolved Oxygen

EPA – U. S. Environmental Protection Agency

FAC - Florida Administrative Code

FANG – Florida Air National Guard

FDEP - Florida Department of Environmental Protection

MW – Monitoring Well

MD IW – Miami Dade Industrial Waste Operating Permit

NELAC - National Environmental Laboratory Accreditation Conference

OSHA - Occupational Safety and Health Administration

OWS – Oil / Water Separator

POL – Petroleum Oils & Lubricants

RCRA – Resource Conservation and Recovery Act

TCLP - Toxic Characteristic Leaching Procedure

TSS - Total Suspended Solids

VOC - Volatile Organic Compounds

SECTION 2
TECHNICAL SPECIFICATIONS

2.0 GENERAL

The Contractor shall furnish all labor, supplies and equipment necessary to collect and analyze industrial wastewater, storm water, and industrial waste from Homestead ARB, FL. Samples of industrial wastewater will be collected from any of nine (9) permit identified oil / water separators (OWS) and two monitoring well (MW) sites at Homestead ARB. Storm water samples will be collected twice yearly (one - Wet Season, one - Dry Season) from up to 18 sampling points, (a total of 32 samplings) located throughout the Homestead ARB storm water collection system. Industrial waste profiling and waste characterization samples will be collected from 55-gallon drums and other containers holding waste on an as-needed basis, these samples can range from aircraft and equipment painting solids and liquids (paint booth paper, filters and spent solvents etc.) , to aircraft and equipment maintenance solids (oily rags) as well as off spec and expired chemicals. Sampling may also be required to characterize soil excavation, storm drain sludge, as well as MW installation cuttings. Sampling parameters are indicated in paragraph 2.4 and will be collected from sampling points provided by Environmental Flight personnel.

2.1 FACILITY IDENTIFICATION

This Statement of Work covers activities to be performed at Homestead ARB, FL. Routine monthly compliance sampling will center on the collection of samples from nine oil/water separators (OWS) identified on Homestead ARB's MD IW permits. The seasonal storm water sampling is comprised of 16 sampling points located throughout the base storm water collection system drainage canals, swales and trenches. Some of these sampling points can be seen in **Table 3** of this SOW. The storm water collection system can vary greatly in size, with collection points being as much as 10 feet deep and 40 feet wide. Steep slopes and uneven terrain is not uncommon within the drainage canal system. Additionally, some sampling points may be located in remote portions of HARB where potentially dangerous animal species, including but not limited to poisonous snakes and crocodilians, have been known to inhabit.

2.2 SCHEDULING WORK EFFORTS

Contractors shall schedule their work to minimize interference with facility operations. Monthly, permit required sampling will ideally be conducted during the first week of the month, but no later than the 15th of the month during the hours outlined in Section 1.2 "Hours of Operation" of this document, unless authorized by Homestead ARB Contracting Office and Environmental Flight. Rescheduling due to mission requirements shall be accomplished at no additional cost to the Government.

2.3 EQUIPMENT

The Contractor shall furnish to the Contracting Officer a list of equipment, which will be used to conduct the activities required for this Statement of Work. The Contractor's equipment and materials shall be sufficient to complete the work specified. Equipment shall include all necessary sampling/testing materials, workable and recordable gauges and necessary containers. All sampling equipment shall be free from contaminants and/or properly decontaminated prior to entering Homestead ARB. Decontamination procedures shall be in accordance with all local, state and federal requirements. Equipment decontamination is to be accomplished prior to entering Homestead ARB.

Sampling containers shall be sterile and free from contaminants and shall be preserved prior to entering Homestead ARB, as required by specific analytical procedures. The Contractor shall ensure that the appropriate containers are specified and/or supplied by the laboratory. Subsequent to sampling, proper sample preservation methods shall be employed during the transportation of the collected samples to the laboratory.

Expenses incurred by the Contractor because of unsatisfactory equipment or expenses incurred, as a result of equipment failure shall not be reimbursed by the Government.

2.4 SAMPLING AND ANALYSES

A minimum of 14 separate sampling events (over the life of the contract) are anticipated to satisfy this Statement of Work (SOW). A break down of the anticipated sampling parameters per sampling location can be found in **Table 1** of this document. Samples collected at Homestead ARB must be collected, transported and deliver with an appropriate Chain of Custody document.

2.4.1 Industrial Wastewater Sampling

Four quarterly site visits will be necessary for the collection of industrial wastewater samples as required by Homestead ARB's Miami Dade Industrial Waste Operating Permit (MD IW). With the exception of two semi-annual monitoring well samplings (at the Base Tank Farm and Hazardous Waste Storage Facility), the majority of the MD IW required sampling involves collecting samples from in-ground, and

above ground oil/water separators. The sampling schedule is in **Table 2** of this document. Required sample analyses include:

- FL-PRO
- PAH (610)
- pH
- Purgable Organics (624)
- Total Metals (Cd, Cr, Ni, Se, Pb & Zn)
- TRPH (EPA 1664)
- VOCs (601/602)

2.4.2 Storm Water Sampling

At least two sampling events will be required to satisfy the storm water sampling requirements. The first will be a dry weather-sampling event to occur from January through April, and the second is to occur during the June through August wet season of the active permit year. Samples will be collected from 16 points shown in Table 3. Up to 18 sampling points will be designated by Environmental Flight per each event. The sampling points will be designated at the sole discretion of the Environmental Flight. The Contractor will be notified at least one week in advance of the storm water sampling event. The notification will include the number and designation of the samples to be collected.

Field activities for the storm-water sampling event include visual monitoring of the sample and sample collection. A grab sample will be obtained from each sampling point. Sampling will be conducted during mutually agreeable daylight hours. The Contractor will attempt to have the same individuals conduct the visual monitoring and sampling throughout the term of this contract to ensure the greatest degree of consistency possible in recording observations. Storm water samples will require the following analysis:

- Biochemical Oxygen Demand
- Chemical Oxygen Demand
- Dissolved Oxygen
- Fecal Coliform
- Herbicides (EPA 8151)
- Nitrate as Nitrogen
- Pesticides (EPA 8081)
- Regulated / Unregulated Volatile Organic Compounds (EPA Method 8260B)
- Total Kjeldahl Nitrogen
- Total Metals (EPA Method 200.7)
- Total Oil & Grease (EPA Method 1664)
- Total Oxygen Demand
- Total Phosphorous
- Total Suspended Solids

For the dry season sampling event, the Contractor shall ensure that a significant rain event has not occurred within the previous 72 hours. A significant rain event is defined as a measurable rain event resulting in discharge of runoff for more than 30 minutes.

For the wet season sampling event, the Contractor will make every effort to collect the samples within the first 30 minutes of when the runoff begins discharging or as soon thereafter as practical. All such samples must be collected from a storm event of >0.1 inches in magnitude and at least 72 hours from the previously measurable storm event.

The Contractor will be responsible for adequately determining when sampling should occur and making appropriate scheduling efforts. As severe weather occurs frequently during the wet season, the Contractor is responsible for anticipating as effectively as possible the protection of their employees and the minimization of repeated trips to Homestead ARB.

2.4.3 Waste Profiling and Other Sampling

The collection of waste characterization and other samples aside from industrial wastewater, and storm water will be collected during the industrial wastewater collection event whenever possible but will not be limited to such prescheduled events.

Waste characterization parameters may include, but will not be limited to the following:

- Flash Point
- FLPRO
- pH
- Phenols
- Polyaromatic Hydrocarbons (EPA 610 or equivalent)
- Purgable Organics (EPA 624 or equivalent)
- RCRA Metals by TCLP (to include Cd, Cr, As, Ba, Hg, Ag, Sb, V, Tl, Be, Ni, Se, Pb and Zn)
- Volatile Organic Compounds (EPA 601/602 or equivalent)

Subsequent to sample collection, the Contractor shall arrange for, and deliver the samples to an FDEP approved laboratory. The Contractor shall ensure the laboratory maintains a current accreditation under Department of Health Rule 64E-1, Certification of Environmental Testing Laboratories, during the performance period of this contract. Samples shall be collected, preserved, stored, packaged and shipped in accordance with instructions provided by the laboratory. All shipping and transportation arrangements and costs for shipping of samples shall be the responsibility of the Contractor. All sampling personnel shall initiate a chain of custody document which shall be completed by the laboratory and returned to the Environmental Flight along with the analytical testing results. Due to Homestead ARB security and clearance considerations the Contractor will make every effort to perform the sampling using the same personnel. Contractor representatives collecting and transporting the samples will require clearance from Homestead ARB Security Force prior to the commencement of any on base activities.

The samples are to be analyzed using EPA- and state-approved methodologies. The laboratory providing analytical services must be NELAC certified and hold any other current certification recognized by the FDEP for all analyses to be performed under this contract. The Contractor will provide proof of this certification to the Contracting Officer before any work under this contract is permitted. The Contractor's laboratory must be able to achieve the minimum detection limits (MDL) for all contaminants. Any published revisions of MDLs by FDEP during the time period of this contract must be adhered to. In addition, the Contractor's laboratory must be located within an area to allow for delivery or shipment of samples to arrive at the laboratory within time for analysis as required by EPA and state regulations. The holding times for each analytical method shall not be exceeded.

The Contractor will be paid for each analysis required as listed in this SOW, and requested by the Environmental Flight at the work item unit price quoted. The Contractor shall quote prices for the analysis of samples with an expected standard turnaround time of not more than 14 days and for analyzing samples with accelerated turn around time not longer than 48 hours. The Contractor is to assume that all samples will be analyzed using standard turn around times. Special cases for using accelerated turn around times are at the discretion of the Environmental Flight and the Contractor will be provided as much advance notice as possible in these cases. The Contractor will be responsible for missed holding times or poor quality sampling and will be required to re-sample in these cases at no cost to the government.

2.5 SUBMITTALS

Prior to commencing work, the Contractor shall be required to submit to the Contracting Office a proposed work schedule. The Contractor will not be allowed to begin work until his work schedule has been

approved by the Contracting Office and the Environmental Flight. The Contractor shall prepare a Field Observation Report to document each field activity at Homestead ARB which shall be submitted along with the corresponding sample analysis report.

The Field Observation report for the monthly permit-required sampling will contain appropriate observation (i.e. off color or odors, as well as pertinent well observations such as depth to water, depth to bottom etc.).

Laboratory analytical reports are required to be submitted to the Environmental Flight before the 10th of the month following the sampling event, but not later than 17 days following the collection date of the samples. Exception to this deadline will only be considered if the contractor and the HARB Environmental Flight agree upon a deadline extension, not to exceed 30 days after the collection of the samples.

Each report will indicate the analyses performed, sample number, date sample received by laboratory, date sample analyzed and laboratory identification. The signed chain of custody documentation and laboratory QA/QC documentation will also be submitted to the Environmental Flight along with the laboratory report. will be included as appropriate or when requested by the Environmental Flight.

The Field Observation Report for storm water sampling shall contain the following information, at a minimum.

- Sample location
- Date/time sampled
- Depth/width of sample location
- Sample temperature
- Sample pH
- Sample conductivity
- Color
- Odor
- Turbidity (clarity)
- Foam
- Oil sheen
- Floating solids
- Settled solids
- Suspended solids
- Other obvious indicators of potential storm water pollution

Additional observations are to be included at the Contractor's discretion. The field observation report is to be provided to the Environmental Flight and included with the laboratory analytical package, unless unusual conditions are noted at the sampling point. In this case, immediate notification must be made to the Environmental Flight within one hour of field activities. Examples of unusual conditions include, but are not limited to, fish kills, petroleum sheen, strong unidentifiable/objectionable odors and significantly distressed vegetation. The Contractor will use his discretion and expertise in determining if immediate notification is warranted.

Table 1

Miami Dade IW Permit - Location / Parameter	pH	(2) VOXs	(2) VOAs	PAH (610)	624	FLPRO	O&G /TRPH (1664)	Phenols	Metals	TCLP RCRA 8 Metals	BOD	COD	DO	TSS	Fecal Coliform	Herbi-cides	Nitrates as Nitrogen	Kjeldahl Nitrogen	Oxygen Demand	Phos-phorus	Pesti-cides	Grand Total
IW- 398 Flight Line																						
185 Engine Shop OWS	4						4															8
192 Weapons Release OWS	4						4															8
193/200 Aircraft Fuels/ Phase OWS	4						4															8
209 AGE Wash Rack OWS	12						12															24
249 Bomb Dump OWS	12						12															24
4709 Aircraft Wash Rack OWS	12						12		12													36
IW- 399 POL Fuel Storage																						
Bldg 206 Fuels Lab OWS	4	4		4		4																16
POL Tank Farm (MWs)*			**8**	**8**		**8**																24
IW- 442 Haz Mat/ Haz Waste Storage																						
Bldg 214 (MWs)*	**4**	**4**	**4**		**4**																	16
IW- 444 FANG Det 1- 125th FW																						
874 FANG AGE Shop OWS	4	2		2		4		4														16
877 FANG Hangar OWS	4		2	2		4		4														16
Storm Drain Sediment **(estimate)**							**8**			**8**												16
Storm Water Sampling		32	32				32		32		32	32	32	32	32	32	32	32	32	32	32	480
Waste Profiles for Disposal **(estimate)**																						
Liquid (Waste Paint, Parts Cleaner Fluid)	**4**				**8**				**8**													20
Solids (Spray Booth paper, etc.)		**4**		**8**	**8**		**8**		**16**	**8**												52
Net Totals																						
OWS	60	6	2	8	0	12	48	8	12	0	0	0	0	0	0	0	0	0	0	0	0	156
MWs[(1)]	**4**	**4**	**12**	**8**	**4**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	40
Surface Water	0	32	32	0	0	0	32	0	32	0	32	32	32	32	32	32	32	32	32	32	32	480
Other (drums, buckets, drains, etc.)	4	4	0	8	16	0	16	0	24	16	0	0	0	0	0	0	0	0	0	0	0	88
Totals	68	46	46	24	20	20	96	8	68	16	32	32	32	32	32	32	32	32	32	32	32	764

(1) Monitoring Wells (Highlighted & Bold) **(2) VOCs for storm water by EPA 8260, MD IW by EPA 601/602**

Table 2

MONTHLY MIAMI-DADE INDUSTRIAL WASTE OPERATING PERMIT SAMPLING SCHEDULE

Oil Water Separators	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARKS
Bldg 185 - Engine Shop		X			X			X			X		TRPH (EPA 1664), pH
BLDG 192 - Weapons Release		X			X			X			X		TRPH (EPA 1664), pH
Bldg 193/200 - Structures & Phase		X			X			X			X		TRPH (EPA 1664), pH
Bldg 874 - FANG AGE Shop OWS													Not required in permit
Bldg 877 - FANG Hangar OWS		X			X			X			X		TRPH (EPA 1664), pH
					X						X		EPA 624 Series
Bldg 206 - Fuels (Lab) OWS		X			X			X			X		EPA 602, 610, TRPH (EPA 1664), pH
Bldg 206 - Fuels (Lab) MW													Not specified on permit
Bldg 209 AGE Wash Rack		X			X			X			X		TRPH (EPA 1664), pH
Bldg 249 Munitions Wash Rack		X			X			X			X		TRPH (EPA 1664), pH
Bldg 4709 (Aircraft Wash Rack)		X			X			X			X		TRPH (EPA 1664), Metals, pH
POL Tank Farm													
MW-1 (SGPB #9)					X						X		EPA 610, 8260, FLPRO, pH
MW-2 (SGPB #10)					X						X		EPA 610, 8260, FLPRO, pH
MW-3 (SGPB #8)					X						X		EPA 610, 8260, FLPRO, pH
MW-4 (SGPB #7)					X						X		EPA 610, 8260, FLPRO, pH
Bldg 214 HAZ-MART													
MW-1 (SGPB #15)					X								EPA 610, 8260, pH
MW-2 (SGPB #16)					X								EPA 610, 8260, pH
MW-3 (SGPB #17)					X								EPA 610, 8260, pH
MW-4 (SGPB #18)					X								EPA 610, 8260, pH
Total Points	0	8	0	0	18	0	0	8	0	0	14	0	

*Analysis parameters are as called for by the Homestead ARB Miami-Dade Industrial Waste Operating Permit

Metals - Cd, Cr, Pb, Ni, and Zn

pH - field measure

Reports are due to MD County by 15th of month following sampling

Table 3

Storm Water Sampling Points

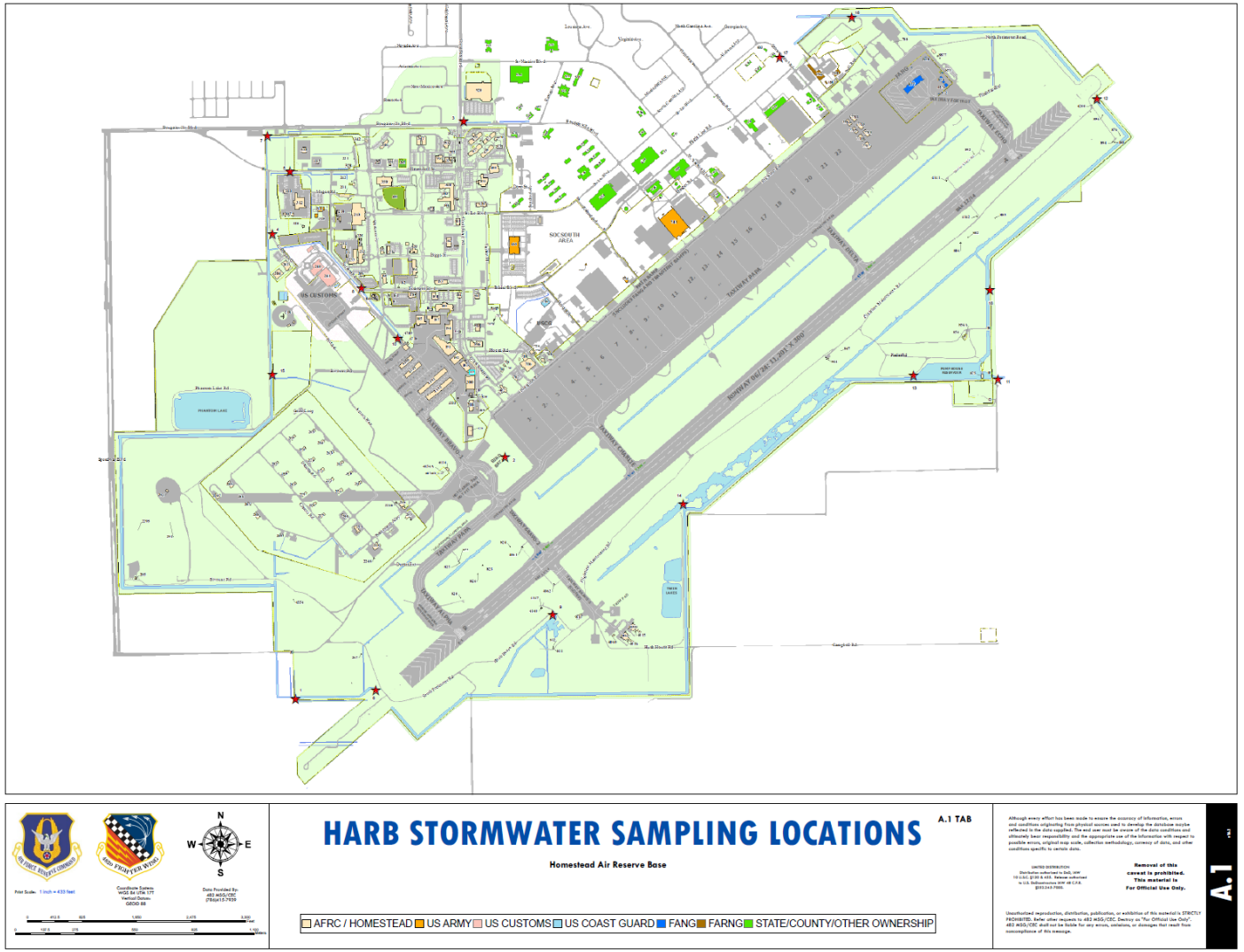

Table 4

UNIT PRICING SCHEDULE

The Contractor shall provide unit pricing for each of the following major work items.

LIQUIDS MATRIX

Work Item	Unit	Unit Cost	
Sampling, Preparation of field Observation Report and Document Submittals	Hour		
Laboratory Analysis		Std TAT (1)	Acc.TAT (2)
BOD	Each		
COD	Each		
Dissolved Oxygen	Each		
Fecal coliform	Each		
FLPRO	Each		
Herbicide (8151)	Each		
Ignitability	Each		
Kjeldahl Nitrogen	Each		
Metals, Total (3)	Each		
Nitrate as Nitrogen	Each		
O&G/TRPH(1664)	Each		
PAH (610)	Each		
Pesticides (8081)	Each		
pH	Each		
Phenols	Each		
Phosphorous	Each		
Purgeable Organics 624	Each		
Total Suspended Solids	Each		
VOCs(601) (4)	Each		
VOCs(602) (4)	Each		

SOLIDS MATRIX

Analysis		Std TAT (1)	Acc.TAT (2)
Metals, Total (5)	Each		
Metals, TCLP (5)	Each		
Nitro Aromatics (8330)	Each		
O&G / TRPH (9071)	Each		
PAH (8270)	Each		
Purgeable Organics 8260	Each		
VOCs (8260)	Each		

(1) Standard Turn Around Time (Std TAT)

(2) Accelerated Turn Around Time (Acc.TAT) based on 48hrs TAT.

(3) Storm-water and Miami Dade IW permits consist of Cd, Cr, Pb, Ni, and Zn. Waste Profiles will require **RCRA 14** metals,

(4) Storm water analysis of VOC's by EPA Method 8260

(5) RCRA 14 metals Cd, Cr, As, Ba, Hg, Ag, Sb, V, Tl, Be, Ni, Se, Pb and Zn,

ENVIRONMENTAL PROTECTION SPECIFICATION

1. **GENERAL**: The work covered by this section consists of furnishing all labor, materials and equipment and performing all work required for the prevention of environmental pollution during and as the result of construction operations under this contract except for those measures set forth in other technical provisions or specifications of this contract. For the purpose of this statement, environmental pollution is defined as the presence of chemical, physical, radiological or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balance of importance to human life; affect other species of importance to man; or degrade the utility of the environment for aesthetic and recreational purposes. The control of environmental pollution requires consideration of air, water and land, and involves noise, solid waste management and management of radiant energy and radioactive materials, as well as pollutants or hazardous materials.

   In order to prevent and to provide for abatement and control of any environmental pollution arising from the activities of the Contractor and any subcontractors in the performance of this contract, they shall comply with the applicable local, state and federal laws, regulations and standards concerning environmental pollution control and abatement, in effect on the date of issue of the invitation for bids. The Contractor shall be responsible for payment of any fines and penalties levied against Homestead ARB as the result of regulatory enforcement actions that are attributable to the actions of the Contractor and any subcontractors.

2. **GREEN (AFFIRMATIVE) PROCUREMENT**: **[N/A]** In order to comply with the green procurement requirements of Section 6007 of the Resource Conservation and Recovery Act (RCRA), 2002 Farm Bill, and Executive Order 13423 (GPP), the Contractor shall use recycled and recovered materials and products identified in the USEPA's Comprehensive Procurement Guidelines (CPG) and bio-based products listed on the USDA Bio Preferred website, See http://www.biobased.oce.usda.gov/fb4p/. The Government requires the use of the following recycled/recovered materials/products as cited by item(s)/specification section(s)/recycled content(s)

and biobased content:

GPP Item	Spec Section	%Recycled/Recovered	Biobased
___ [N/A]			

The GPP specific recycled-content percentages for each of the above items is also identified in the latest EPA's Comprehensive Procurement Guidelines (CPG) available at www.epa.gov/cpg. Recycled materials in the CPG shall be used to meet the minimum content standards identified in the current Recovered Material Advisory Notices (RMANs). Other materials to include biobased and products not listed, but commonly used in industry outside of the government, shall also be considered. Material and product submittals for all recycled content items shall list the recycled and recovered materials used and the percentage content listed. The above materials and products have been reviewed by Government personnel, determined to meet the requirements of the technical specifications, are available in the local market and are not cost prohibitive. [In accordance with RFO 52.223-9, if the requirement exceeds the Simplified Acquisition Threshold ($100,000), the Contractor shall provide the Contracting Officer a certification with the percentage estimate(s) of the total recovered material(s) used in contract performance, including, if applicable, the percentage of postconsumer material(s) content(s). This certification shall be provided to the Contracting Officer after final inspection, but prior to final payment.]

3. **PROTECTION OF LAND (SOIL) RESOURCES AND SITE RESTORATION**: It is intended that land resources be preserved in its present condition or be restored to the original condition which existed at the commencement of work.

3.1. The Contractor shall confine his work activities to areas defined by the specifications and/or drawings and to areas authorized by the Contracting Officer for other operations needed for the Contractor's performance.

3.2. Any trees, vegetation, or other landscape feature scarred or damaged by the Contractor's equipment or operations shall be restored to its original condition at the Contractor's expense. The Contracting Officer, in consultation with the Environmental Flight, shall approve what manner of restoration shall be used, and whether damaged trees shall be treated and healed or removed and disposed of under requirements for clearing and grubbing.

3.3. The Contractor shall obliterate all signs of temporary construction facilities such as haul roads, work areas, structures, foundations of temporary structures, stockpiles of excess waste, excavated or fill materials, construction debris or any other vestiges of construction resulting from this contract as directed by the Contracting Officer in consultation with the Environmental Flight.

4. **PROTECTION OF WATER RESOURCES**: **[N/A]**

5. **AIR POLLUTION CONTROL**

5.1. No open burning shall be allowed under any circumstances.

5.2. No Class I ozone depleting substances shall be used by the Contractor without specific written permission from the Contracting Officer, in consultation with the Environmental Flight, including

Halons, Chlorofluorocarbons, 1,1,1-Trichloroethane and Trichloroethylene.

5.3. The Contractor shall not cause, let, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

5.4. The Contractor shall not cause, let, suffer, allow or permit the emissions or unconfined particulate matter from any activity, including vehicular movement and spray-gun painting; transportation of materials; construction; alteration; demolition; or industrially related activities.

6. REFUELING OPERATIONS AND FUEL STORAGE [N/A]

7. FISH AND WILDLIFE: The Contractor shall not interfere, alter water flows, or disturb the native habitat for any fish and wildlife areas designated by the Environmental Flight.

8. HAZARDOUS MATERIALS:

8.1. A hazardous material (Hazmat) is defined as any item that is:

8.1.1. A health hazard or physical hazard as defined in 29 CFR 1910.1200©, the OSHA Hazard Communication (HAZCOM) Standard.

8.1.2. Regulated in its disposal by EPA under 40 CFR

8.1.3. Defined by DOT regulations under 49 CFR

8.1.4. Defined by the Dangerous Goods Regulations of the International Air Transport Association.

8.1.5. Covered under the Emergency Planning and Community Right-to-Know Act (EPCRA) reporting requirement

8.2. The Contractor shall establish a Hazmat storage and distribution system. Prior to bringing any Hazmat on base, the Contractor shall:

8.2.1. Inventory all Hazmats required to support the contract and submit for approval: (1) two copies of the most current material data and safety sheet (MSDS) and (2) a listing all Hazmats and approximate quantities to be used using the *482d MSG/SGPB Bioenvironmental Engineering Services Chemical and Radiological Material Tracking Form for Contractors Working on Homestead ARB.*

8.2.2. Designate and maintain a Hazmat storage and issue location with flammable/corrosive material storage lockers (or lockers that are chemically inert to the Hazmat as well as impervious to absorption).

8.2.3. Provide all Contractor employees with Hazmat training and all necessary personal protective equipment. The Contracting Officer may request proof of employee training.

8.3. While Hazmats are on base, the Contractor shall follow all hazardous material laws as they pertain to the Contractors' workforce and abide by the following best management practices:

8.3.1. Maintain a tracking report for Hazmats issued and quantities used and [make available for inspection upon request of the Contracting Officer.] [submit monthly reports of Hazmats deliveried and removed].

8.3.2. Keep SDSs on site and available to employees as required by OSHA and make available for inspection upon request of the Contracting Officer.

8.3.3. Segregate incompatible materials at all times.

8.3.4. Keep work and storage areas free from drips and spills by use of drop cloths or tarpaulins.

8.3.5. Close all containers when not in use and return to a proper storage area when no longer used or at the end of the workday.

8.3.6. The Contractor shall provide certification that all unused Hazmats have been inventoried and removed from HARB before the contract can be said to be complete or before the expiration date of the Hazmat.

9. **NON-HAZARDOUS WASTE SPILLS:** The Contractor shall be responsible for the cleanup and disposal of all spilled regulated and unregulated materials, including materials used to contain and absorb the spill. Applicable spills shall be managed IAW the latest Homestead HAZMAT plan.

10. **HAZARDOUS WASTES AND SPILLS**: This section includes the handling of all hazardous waste (HW) as generated by the Contractor or encountered by the Contractor during the course of the contract.

10.1. "**Contractor HW**" is defined as any waste resulting from Contractor use of Hazmats and Contractor activities resulting in spills or leaks which can be defined as HW[1]. The Contractor shall be fully responsible for immediately reporting any Hazmat spill incident to the base Fire Department, Environmental Flight, and Base Civil Engineering. The Contractor shall be liable for containment and environmental clean up and disposal of all Contractor HW, or release of Contractor HW per the Hazardous Material Emergency Planning and Response and Oil Spill Facility Response Plan (HAZMAT Plan) for Homestead Air Reserve Base (available from the base Environmental Flight). The following checked items shall be submitted only if HW is transported:

- A copy of the Contractor's registration and EPA ID number.
- The HW transporter's name and copy of its license or permit to transport HW.
- The Treatment, Storage, And Disposal Facilities' name and copy of its license, permit or interim status from EPA to receive HW.

10.2. "**Government HW**" is defined as all pre-existing HW encountered at the job site. This waste shall remain the property of the government and disposal shall be by the government, unless directed otherwise by the Contracting Officer at Government expense[2].

10.3. The Contractor shall notify the Contracting Officer and the Environmental Flight before any activity that is expected to generate HW and when any HW generation commences or changes

---

"No PCBs". Items not so marked shall be considered to contain PCBs and are subject to HW procedures in the event of a spill or leak. If the Contractor suspects any item contains PCBs, the contractor shall stop work and immediately notify the HARB Environmental Flight and Contracting Officer.

[2] Including Universal Waste. Florescent light tubes, batteries, and mercury containing devices will be managed by the Recycling Center.

characteristics. The Contracting Officer may direct the Contractor to change waste disposal procedures based on recommendations from the Environmental Flight.

[Author to delete if not needed or edit clauses as appropriate if used…

10.4. HW accumulation points (HWAPs) are permitted by the EPA under 40 CFR 262.34, however, local authorization is required prior to establishing such a site. Local authorization for HARB is obtained through the Contracting Officer after a joint review conducted by the Environmental Flight, BioEnvironmental Engineering Services, the Safety Office and the Fire Department. At that time, the contractor will be provided with specific requirements and conditions. The following generic requirements for HWAPs are provided for bidding purposes, and, if no other specific guidance is provided, shall be considered contractual:

10.4.1. HWAPs are to be sited in close proximity to the point where a waste stream is generated. The proposed HWAP and its actual location must be reviewed and approved by the Contracting Officer in consultation with the Environmental Flight, prior to establishing the site.

10.4.2. At a minimum, the HWAP will be identified with a sign of no less than 1-inch upper-case lettering denoting "HAZARDOUS WASTE", "HAZARDOUS WASTE ACCUMULATION POINT" or equivalent. The site needs to be clearly distinguishable from other areas and must be designed to preclude people from unknowingly entering the location and to reduce unauthorized entry as much as possible. The use of additional signs, pylons, ropes, floor markings, fencing, etc. may be used to more clearly define the HWAP location.

10.4.3. Containers holding liquid HW must be stored on secondary containment pallets to preclude spreading leaks and spills. The pallets will be installed prior to collecting liquid waste.

10.4.4. An existing HWAP is solely for the specified function and waste streams covered by the original approval. Waste from other functions and new waste streams will not be added to HWAP containers without prior written approval from the Contracting Officer, in consultation with the Environmental Flight.

10.4.5. All HWAPs are subject to regulatory inspection.

10.4.6. A suitable response kit will be located within reasonable proximity to the HWAP (i.e. line of sight). Also required is access to a telephone and a list of emergency telephone numbers. All spills will be reported to the Base Fire Department at 7117 and the Environmental Flight.

10.4.7. The use of applicable personal protective equipment (PPE), consistent with what is required when handling individual HW as defined on the MSDS.

10.4.8. Different HW will not be mixed in the same container as this may cause a dangerous reaction.

10.4.9. A primary and alternate manager will be appointed for the HWAPs. These assignments will be made by letter of designation signed by the Contractor's senior site manager or senior construction representative, as applicable. Three copies of the letter shall be submitted to the Contracting Officer.

10.4.10. If not already completed and current, newly assigned HWAP managers and alternates must receive initial training through the Environmental Flight prior to assuming their

HWAP management duties. Annual management refresher training is required for all managers.

10.4.11. Supervisors and HWAP managers are responsible for ensuring that all assigned personnel are sufficiently trained in accordance with 29 CFR 1910.120 prior to handling or storing hazardous waste.

10.4.12. Training records are subject to regulator inspection. Training records will be retained for no less than 3 years after a person leaves or is no longer handling HW, in accordance with 40 CFR 264.14.

10.4.13. The HWAP manager will post a checklist on-site covering day-to-day operations. Specific to the particular location, this checklist highlights routine procedures the Contractor follows handling its HW.

10.4.14. The HWAP manager will develop a checklist covering the manager's weekly inspection of the HWAP and submit it to the Contracting Officer for approval. The manager files the original for 3 years, in accordance with 40 CFR 264.14.

10.4.15. The HWAP manager will conduct an informal HWAP inspection on a daily basis. The weekly checklist may be used for this purpose.

10.4.16. HWAP managers will maintain container tracking logs. The log will include container number, the HWAP location, brief description of the waste stream, fill date (the date the container was filled to its authorized capacity), close date (date container reaches its maximum allowable storage time, which for a HWAP is one year), date transferred (the date the container was picked up at the HWAP for disposal) and shipping (TSDF) location.

10.4.17. HW containers will not be stored longer than 1 year regardless of how much unused space the container may possess.

10.4.18. Drums and containers used for storing HW shall be in conformance with Department of Transportation (49 CFR) specifications for storing that particular material/waste.

10.4.19. The maximum a HWAP may accumulate is a 55-gallon drum, unless the material is an acutely hazardous waste. For an acutely hazardous waste, the maximum quantity to be stored is a 1-quart container. No more than 50 gallons is to be accumulated into a 55-gallon drum to allow for container expansion considerations. Acutely hazardous waste containers are to be filled not more than 2 inches from the rim of the container.

10.4.20. Except for adding waste or to conduct an inspection of the waste level in the container, the HW container will always be covered with its lid or bung screwed in place to prevent accumulation of rainwater.

10.4.21. Every HW container will have a clearly visible label affixed to the side of the container. At a minimum, the label will show "HAZARDOUS WASTE", a description or name of the waste and the hazard associated with the waste. In addition, the label will have a provision to post the date the container was filled at the HWAP. The container's markings will also include the container ID number used to trace container processing.

10.4.22. Upon filling a HW container, the date is posted to the label, the contractor must arrange for transportation of the HW to an EPA permitted TSDF within the required timeframes allowed under the particular generator status.

10.4.23. The Contractor shall obtain written approval from the Contracting Officer, in consultation with the Environmental Flight, prior to recycling any HW. The Contractor shall provide a copy of the shipping document, bill of lading, etc. for items that are recycled. The Contractor can not sell Government property to recycling companies.

10.4.24. All actions leading to the closure of a HWAP must focus on ensuring that the Contractor takes steps necessary to control, minimize or eliminate the risk to personnel and the environment during closure operations. Further, the Contractor's efforts must preclude the risk of post-closure release of HW and its constituents, as well as make post closure facility maintenance unnecessary. The Contractor must also ensure that contaminated equipment, facilities and surroundings are properly decontaminated as part of the closure process. The entire closure process must be conducted at the direction of and with the approval of the Contracting Officer, in consultation with the Environmental Flight.

11. <u>ASBESTOS-CONTAINING MATERIALS AND LEAD-BASED PAINT</u>: [N/A]

12. <u>RADIOACTIVE MATERIALS:</u> [N/A]

13. <u>PESTICIDES / HERBICIDES</u>: [N/A]

END OF SECTION