

N60200.AR.004659
NAS CECIL FIELD, FL
5090.3a

WORK PLAN REVISION 1 FOR WORK PLAN ADDENDUM 18 INSTALLATION OF AIR
SPARGING SYSTEMS AT JET ENGINE TEST CELL AND BUILDING 271 NAS CECIL FIELD
FL
11/3/2006
CH2MHILL CONSTRUCTORS INC



PROJECT NAME: Former Naval Air Station (NAS) Cecil Field,
Jacksonville, Florida CTO NO: RAC III 0086

SITE/TASK: Groundwater Sampling at BP Well Site and G-82 Site. WORK PLAN DATE: August 2003

WORK PLAN NAME: Work Plan Addendum No. 18 – Installation of Air
Sparging Systems at the Jet Engine Test Cell (JETC) and
Building 271 DATE OF REVISION: November 3, 2006

REVISION PREPARED BY: Sam Naik

Modifications/Revisions:	
Item No.	Description of Modifications/Revisions
Purpose	<p>The purpose of this Work Plan Revision is to supplement the RAC III CTO No. 0086 Work Plan Addendum No. 18 with detailed information for groundwater sampling at Bldg. G-82 and BP Well sites at the former NAS Cecil Field, Jacksonville, Florida. Groundwater samples will be collected and analyzed at an offsite laboratory for volatile organic compounds (VOCs), Total recoverable petroleum hydrocarbons (TRPH) and polyaromatic hydrocarbons (PAHs); including 1-methylnaphthalene and 2-methylnaphthalene, to assess current levels of groundwater contamination caused at these sites as a result of petroleum releases during previous site activities.</p> <p>This revision provides the supplemental details necessary to conduct groundwater sampling such as sampling parameters and analytical requirements, the updated role assignments for the primary and alternate Project Quality Control (QC) Managers, and the updated Activity Hazard Analysis forms.</p> <p>Following are the specific modifications/revisions:</p>
001	Site map and sampling location figures - Figures 1-1, 1-2 and 1-3.
002	<p>Table 3-2, Sampling and Analysis Summary Table</p> <p>Includes monitoring well IDs, sample quantities and collection frequency, and the required laboratory methods for the analysis of these samples. Additionally, the sampling and analytical requirements, along with the required level of quality and data packages are those provided in the NAS Cecil Field Basewide Work Plan (CCI, 1998).</p>
003	<p>Section 6.1; Project Quality Control Manager</p> <p>The primary Project QC Manager will be Mr. Craig Haas, CCI. Mr. Haas will also serve as the Site Superintendent and Site Health and Safety Specialist. The Alternate Project QC Manager will be Mr. Randy Dumaop. The Project QC Manager appointment letters for Mr. Haas and Mr. Dumaop are attached.</p>
004	<p>Activity Hazard Analysis</p> <p>The Activity Hazard Analysis forms for the tasks associated with groundwater sampling have been updated to current standards and are attached.</p>

Reasons for the Modifications/Revisions:

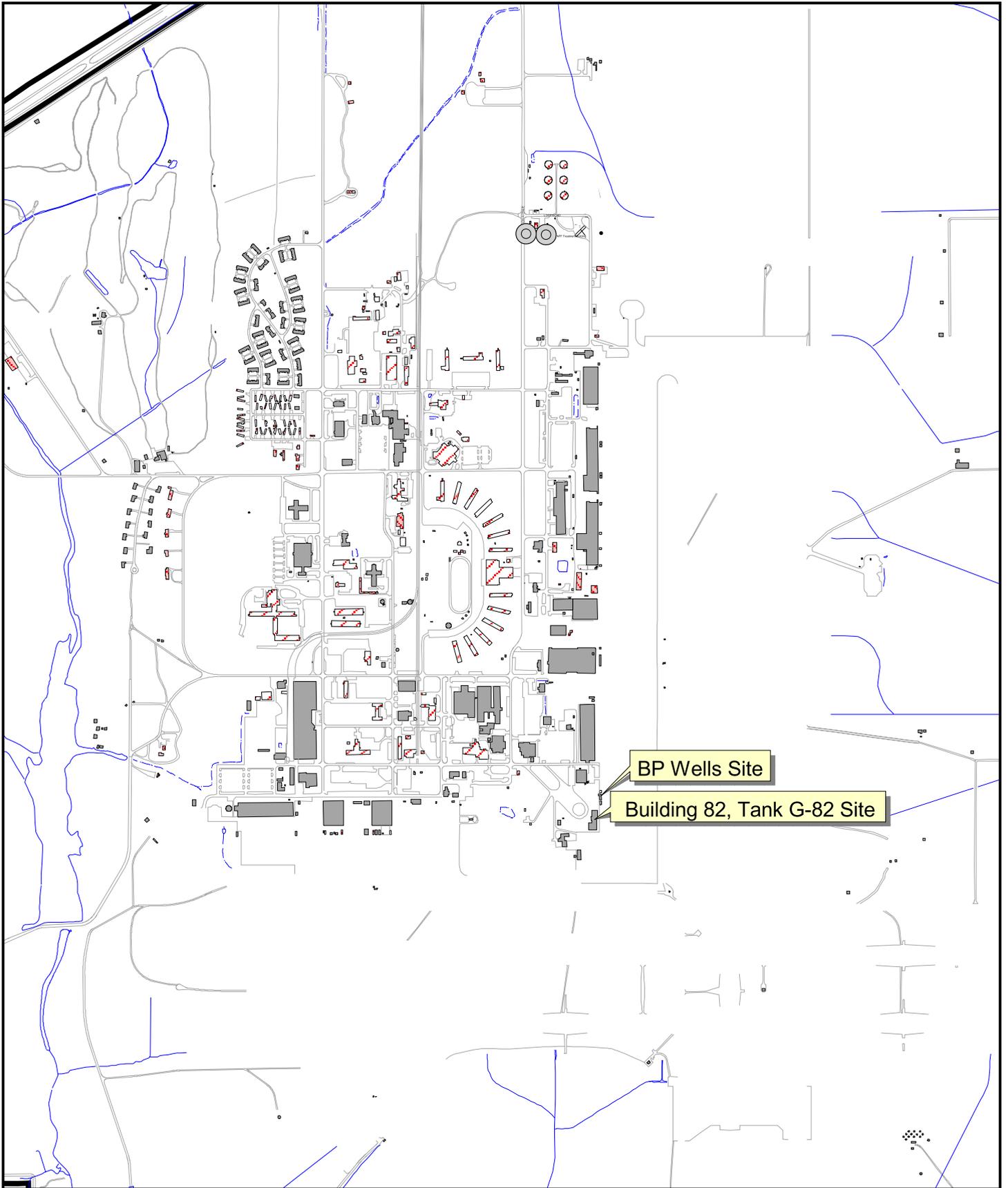
Item No.	Reasons for the Modifications/Revisions
All	This revision is being prepared to facilitate baseline groundwater sampling to evaluate current groundwater contamination conditions at Bldg. G-82 and BP Well sites which have undergone previous remedial activities. This supplemental sampling and analytical results will aid in determining the path forward for additional remedial activities at these two sites originally proposed under Statement of Work No. 085, dated 21 March, 2002.

<p>_____ Sam Naik CTO Project Manager</p>	 _____ Signature	<p>_____ 10/30/2006 Date</p>
<p>_____ Michael Halil Deputy Program Manager</p>	 _____ Signature	<p>_____ 10/30/2006 Date</p>
<p>_____ U.S. Navy Responsible Authority</p>	<p>_____ Signature</p>	<p>_____ Date</p>

Document Control Distribution

Mark Davidson, NAVFAC EFD SOUTH	Larry Blackburn, EFA Southeast	David Grabka, FDEP
Mark Speranza, TTNUS	Project File No. 271591	

NOTE: Original figure created in color



BP Wells Site

Building 82, Tank G-82 Site

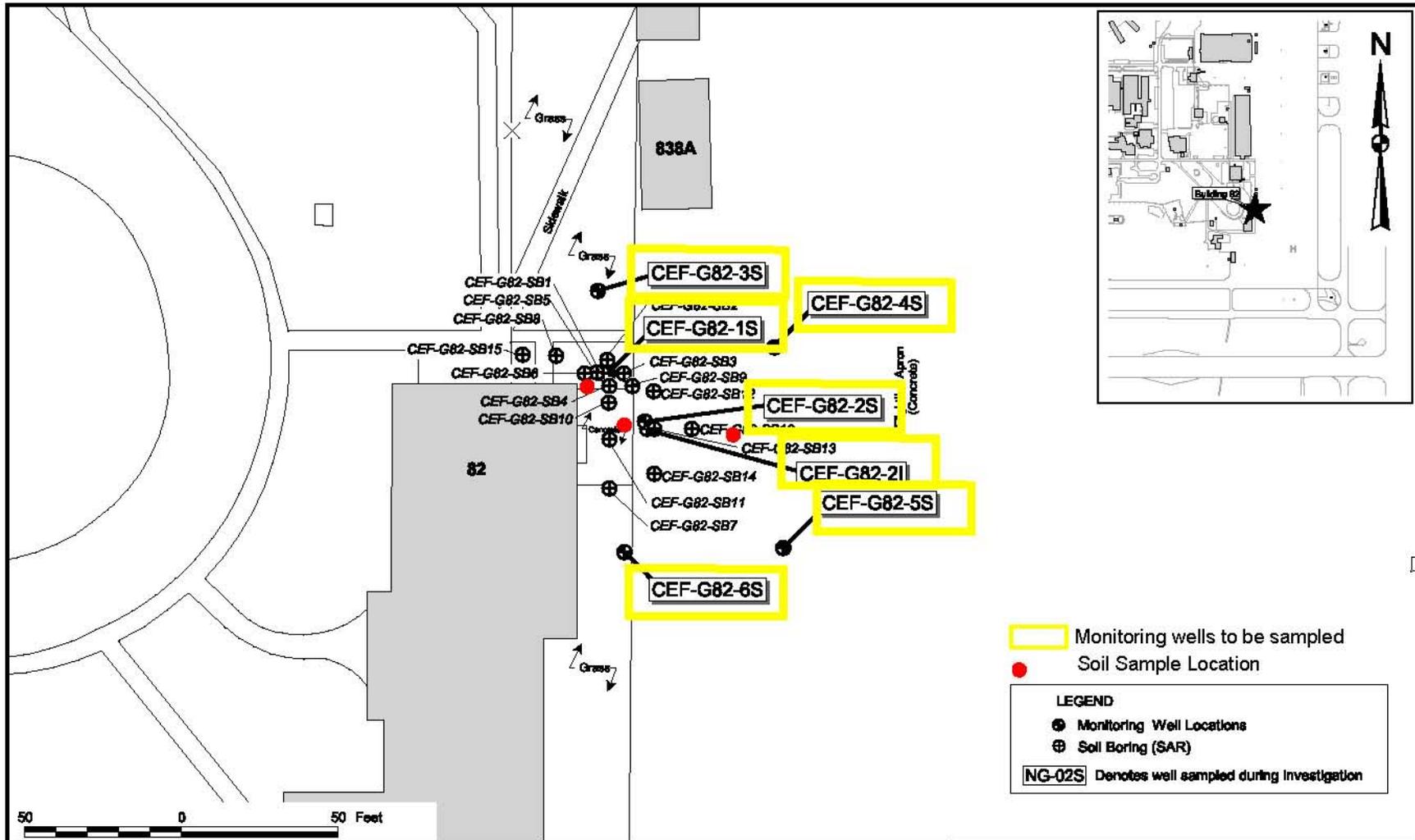


0 1000 2000 Feet

1 inch = 1376.99 feet

Figure 1-1
Site Location
Bldg. G-82 and BP Wells Sites
Former NAS Cecil Field, Jacksonville, FL

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Monitoring wells to be sampled
● Soil Sample Location

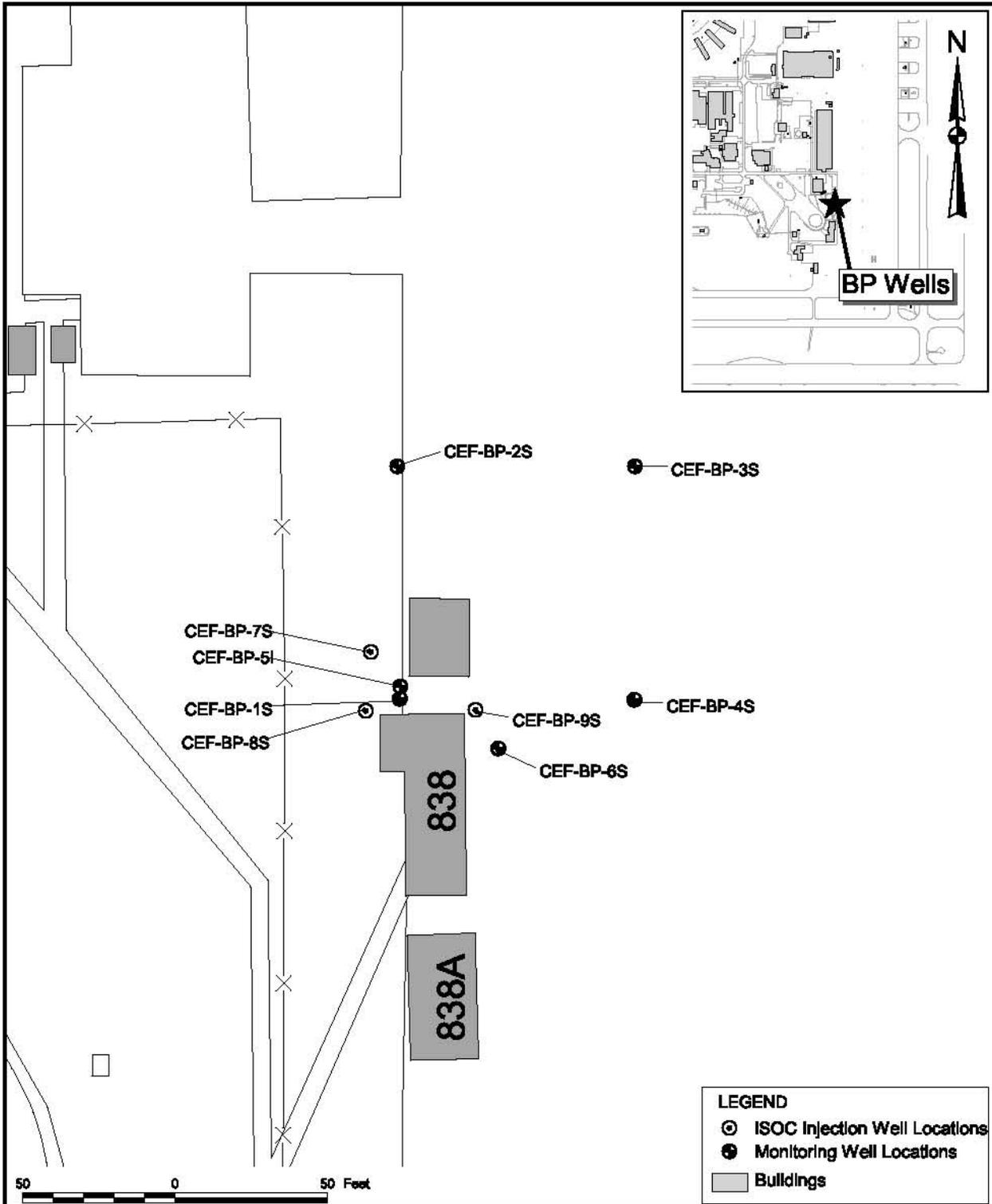
LEGEND
● Monitoring Well Locations
⊕ Soil Boring (SAR)
NG-02S Denotes well sampled during investigation

DRAWN BY	DATE
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



SITE PLAN
BUILDING 82 - TANK G82
SOURCE: TetraTech, 2001- SAR for Bldg. 82, Tank G-82

APPROVED BY	DATE
APPROVED BY	DATE
Figure 1-2	
REV	D



DRAWN BY MJJ CHECKED BY DATE 24Apr00 COST/SCHEDULE-AREA SCALE AS NOTED		SITE PLAN BP WELLS SITE Source: TetraTech, 2004, ENATS Evaluation Report, BP Wells Site.	APPROVED BY DATE APPROVED BY DATE
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Figure 1-3

Table 3-2

Sampling and Analysis Summary Table

Bldg G-82 and BP Well Sites, CTO 86, Former Naval Air Station (NAS) Cecil Field - Jacksonville, Florida

Sample Task	Sample Point	Matrix	Sampling Frequency	Approx Sample No	Sampling Method (Note 1)	Sampling Equipment (Note 1)	TAT (Note 2)	Data Package Reqmnt	Required Analysis	Analytical Method	Holding Time	Sample Preservation	Containers
Groundwater Characterization Sampling													
Groundwater Sampling	Monitoring wells CEF-G82-1S, CEF-G82-2S, CEF-G82-3S, CEF-G82-4S, CEF-G82-5S, CEF-G82-6S, CEF-G82-2I; CEF-BP-1S, CEF-BP-2S, CEF-BP-3S, CEF-BP-4S, CEF-BP-5I, CEF-BP-6S,	Water	Baseline only. Future events TBD	13 + 2 Dup + 2 EQB + 1MS/MSD = 19	Grab	Peristaltic Pump; Teflon Tubing	14 days	CCI Level C	Volatiles	8260B	14 days	HCL pH <2; Cool to 4°C	(2) 40 mL vial
									PAHs (including -1 & -2 Methylanthalene)	8310	7 days ext; 40 days analysis	Cool to 4°C	(1) 1-Liter Amber glass
									TRPH	FL-PRO	7 days ext; 40 days analysis	Cool to 4°C	(1) 1-Liter Amber glass
						1 per well	Grab	Peristaltic Pump; Teflon Tubing; Horiba U-10 Water Quality Checker; ORP meter (if not included on Horiba)	ASAP	Screening	DO, Temperature, pH, Specific Conductance, Turbidity, ORP	Field Direct Read Meter	N/A
	Monitoring wells CEF-G82-1S, CEF-G82-2S, CEF-G82-3S, CEF-G82-2I, CEF-BP-1S, CEF-BP-2S, CEF-BP-5I, CEF-BP-6S	Water	Baseline only. Future events TBD	8 + 1 Dup + 1 EQB + 1MS/MSD = 12	Grab	Peristaltic Pump; Teflon Tubing	14 days	CCI Level C	Dissolved Hydrogen	AM20Gax	14 days	Cool to 4°C	(2) 40 mL vial
									Dissolved Methane	RSK 175	14 days	HCL pH <2; Cool to 4°C	(2) 40 mL vial
									Nitrate	300.0/352.1	48 hours	Cool to 4°C	(1) 250 mL HDPE
									Nitrite	300.0/354.1	48 hours	Cool to 4°C	(1) 250 mL HDPE

Notes:

- 1) In accordance with FDEP SOPs
- 2) TAT is in calendar days

Table 3-2

Sampling and Analysis Summary Table

Bldg G-82 and BP Well Sites, CTO 86, Former Naval Air Station (NAS) Cecil Field - Jacksonville, Florida

Sample Task	Sample Point	Matrix	Sampling Frequency	Approx Sample No	Sampling Method (Note 1)	Sampling Equipment (Note 1)	TAT (Note 2)	Data Package Reqmnt	Required Analysis	Analytical Method	Holding Time	Sample Preservation	Containers
									Sulfate	300.0/375.1	28 days	Cool to 4°C	(1) 250 mL HDPE
									Sulfide	376.1	7 days	NaOH, Zn Acetate pH >9; Cool to 4°C	(1) 500 mL HDPE
									TOC / TIC	415.1	28 days	HCL or H2SO4 pH <2; Cool to 4°C	(2) 40 mL vial
Aqueous Waste Characterization													
Disposal of Aqueous Waste	Portable Tank or Drums	Water	Once per container or per 10 drums	As necessary	Grab	Drum thief or dip jar	7 days	CCI Level B	TCL Volatiles	8260B	14 days	HCl pH< 2; Cool to 4°C	(2) 40 ml vial
									TCL Semi-volatiles	8270C	7 days ext; 40 days analysis	Cool to 4°C	(3) 1L amber glass
									TCL Pesticides	8081A	7 days ext; 40 days analysis		
									Herbicides	8151A	7 days ext; 40 days analysis		
									TAL Metals	6010B/7470A	6 mths;Hg-28 days	HNO ₃ pH< 2; Cool to 4°C	(1) 500mL HDPE
									TRPH	FL-PRO	7 days ext; 40 days analysis	Cool to 4°C	(1) 1-Liter Amber glass
									Corrosivity	9040C	ASAP	Cool to 4°C	(1) 1L amber glass
									Ignitability	1010	ASAP		

Notes:

- 1) In accordance with FDEP SOPs
- 2) TAT is in calendar days



CH2M HILL
115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA
30346-1278
Tel 770.604.9095
Fax 770.604.9282

November 1, 2006

Mr. Craig Haas
CH2M HILL Constructors, Inc.
225 East Robinson Street Suite 505
Orlando, Florida 32801-4321

RE: Contract No. N62467-98-D-0995
Contract Task Order No. 0086
Naval Air Station (NAS) Cecil Field – Jacksonville, Florida
Project Quality Control Manager Letter of Appointment

Dear Mr. Haas:

Herein describes the responsibilities and authority delegated to you in your capacity as the Project QC Manager on the NAS Cecil Field site, Contract Task Order (CTO) 0086 under RAC III Contract No. N62467-98-D-0995.

In this position, you assist and represent the Program QC Manager in continued implementation and enforcement of the Project QC Plans. Your primary role is to ensure all requirements of the contract are met. Consistent with this responsibility, you will: (i) implement the QC program as described in the Navy RAC contract; (ii) manage the site-specific QC requirements in accordance with the Project QC Plans; (iii) attend the coordination and mutual understanding meeting; (iv) conduct QC meetings; (v) oversee implementation of the three phases of control; (vi) perform submittal review and approval; (vii) ensure testing is performed; (viii) prepare QC certifications and documentation required in the Navy RAC Contract; and, (ix) furnish a Completion Certificate to the Contracting Officer or designated representative, upon completion of work under a contract task order, attesting that "the work has been completed, inspected, and tested, and is in compliance with the contract."

Your responsibilities further include identifying and reporting quality problems, rejecting nonconforming materials, initiating corrective actions, and recommending solutions for nonconforming activities.

You have the authority to control or stop further processing, delivery, or installation activities until satisfactory disposition and implementation of corrective actions are achieved. You have the authority to direct the correction of non-conforming work. All work requiring corrective action will be documented on daily reports, and, in the event non-conforming work is not immediately corrected you are required to submit a non-conformance report to the PM and copy the Program QC Manager. A status log will be kept of all non-conforming work. You shall immediately notify the Program QC Manager in the event of any stop work order.

It is imperative that you comply with all terms of the basic contract. In particular, Section C, Paragraph 6.5.2, which states:

"No work or testing may be performed unless the QC Program Manager or Project QC Manager is on the work site."

In the event that you are not able to be at the work site when work or testing is to be performed, it is your responsibility to inform the Program QC Manager and Project Manager, in advance, so that other arrangements can be made.

Further, if you are requested to perform the duties of the Site Supervisor, it is your responsibility to inform the Program QC Manager so that approval can be obtained in advance from the Contracting Officer or designated representative, in accordance with Section C Paragraph.6.2.1of the contract.

You are a key member of the Project Manager's team. You ensure that work meets the specific requirements and intent of the work plan, the Navy's scope of work and the basic contract. Should you have any questions regarding this role, you should immediately contact the Program QC Manager, Theresa Rojas. Your day-to-day activities on the site should be coordinated with all site personnel and the Project Manager. In event of any deficient items, the Superintendent and Project Manager should be advised immediately so they have opportunity to remedy the situation.

Sincerely,

CH2M HILL Constructors, Inc.



Michael Halil
Deputy Program Manager

cc: Eric Burrell/ATL
Theresa Rojas/ATL
Project File No. 271591



CH2M HILL
115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA
30346-1278
Tel 770.604.9095
Fax 770.604.9282

November 1, 2006

Mr. Randy Dumaop
AGVIQ Environmental Services
6219 Authority Avenue
Jacksonville, Florida 32221

RE: Contract No. N62467-98-D-0995
Contract Task Order No. 0086
Naval Air Station (NAS) Cecil Field - Jacksonville, Florida
Alternate Project Quality Control Manager Letter of Appointment

Dear Mr. Dumaop:

Herein describes the responsibilities and authority delegated to you in your capacity as the alternate Project QC Manager on the NAS Cecil Field, Contract Task Order (CTO) 0086 under RAC Contract No. N62467-98-D-0995.

In this position, you assist and represent the Project QC Manager in the event that he is not on the project site and the Program QC Manager in continued implementation and enforcement of the Project QC Plans. Your primary role is to ensure all requirements of the contract are met. Consistent with this responsibility, you will: (i) implement the QC program as described in the Navy RAC contract; (ii) manage the site-specific QC requirements in accordance with the Project QC Plans; (iii) attend the coordination and mutual understanding meeting; (iv) conduct QC meetings; (v) oversee implementation of the three phases of control; (vi) perform submittal review and approval; (vii) ensure testing is performed; , (viii) prepare QC certifications and documentation required in the Navy RAC Contract; and, (ix) furnish a Completion Certificate to the Contracting Officer or designated representative, upon completion of work under a contract task order , attesting that "the work has been completed, inspected, and tested, and is in compliance with the contract."

Your responsibilities further include identifying and reporting quality problems, rejecting nonconforming materials, initiating corrective actions, and recommending solutions for nonconforming activities.

You have the authority to control or stop further processing, delivery, or installation activities until satisfactory disposition and implementation of corrective actions are achieved. You have the authority to direct the correction of non-conforming work. All work requiring corrective action will be documented on daily reports, and, in the event non-conforming work is not immediately corrected you are required to submit a non-conformance report to the PM and copy the Program QC Manager. A status log will be kept of all non-conforming work. You shall immediately notify the Program QC Manager in the event of any stop work order.

It is imperative that you comply with all terms of the basic contract. In particular, Section C, Paragraph 6.5.2, which states:

"No work or testing may be performed unless the QC Program Manager or Project QC Manager is on the work site."

In the event that you are not able to be at the work site when work or testing is to be performed, it is your responsibility to inform the Program QC Manager and Project Manager, in advance, so that other arrangements can be made.

Further, if you are requested to perform the duties of the Site Supervisor, it is your responsibility to inform the Program QC Manager so that approval can be obtained in advance from the Contracting Officer or designated representative, in accordance with Section C Paragraph.6.2.1of the contract.

You are a key member of the Project Manager's team and ensure that work meets the specific requirements and intent of the work plan, the Navy's scope of work and the basic contract. Should you have any questions regarding this role, you should immediately contact the Program QC Manager, Theresa Rojas. Your day-to-day activities on the site should be coordinated with all site personnel and the Project Manager. In event of any deficient items, the Superintendent and Project Manager should be advised immediately so they have opportunity to remedy the situation.

You may be assigned other responsibilities concurrent with this assignment. Regardless of other responsibilities assigned, you shall take your QC and safety responsibilities as primary. Any other assigned responsibilities shall be secondary to your QC and safety responsibilities.

Sincerely,

CH2M HILL Constructors, Inc.



Michael Halil
Deputy Program Manager

cc: Eric Burrell/ATL
Theresa Rojas/ATL
Project File No. 271591

Activity Hazard Analysis

Activity: Daily Tasking	Date: 10/30/2006
Description of Work: Soil and Groundwater Sampling at Building 82	Project: CTO-0086, Building 82 and BP Wells Sites located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida
	Site Supervisor: Craig Haas
	Site Safety Specialist: Craig Haas
	Date Reviewed:

WORK TASK SEQUENCE	IDENTIFY & ANALYZE THE HAZARD	HAZARD CONTROLS
Daily Tasking	General Hazards	<ul style="list-style-type: none"> • Documented Daily Pre-Task Safety Plan review • Ensure all workers know their work assignments. • Preplan work layout • Daily site inspections prior to commencement of work. • Minimum PPE – Hardhats, Safety Glasses with side shields, Safety Toed boots, Long Pants and shirts with a minimum of 3” sleeves. This may be modified to include; work gloves, splash suit, and face shield. • All visitors shall be given a Safety/Hazard brief. • Minimum illumination must be able to read a newspaper without difficulty. • Hearing protection shall be required if shouting is needed to hear a someone 3 feet away. • Job site shall be kept clean and orderly, debris shall be stored properly and collection containers shall be emptied at regular intervals or as needed. • Wash/rinse facilities/water shall be available. • Only qualified operators shall operate equipment. • Equipment/vehicles shall be inspected by a qualified operator prior to the first use of the day. • Establish common paths of travel; keep areas free from accumulation of materials and debris. • Tools, equipment, materials, and supplies will be stored in an orderly manner. • Spills, oil and grease will be cleaned up immediately from all walking and working surfaces.
	Slips, trips and falls	<ul style="list-style-type: none"> • Extra care should be taken while walking around the area, this is a wooded area and the ground will not be level and trip hazard free. • Use three point climbing while climbing in or out of equipment.

Activity Hazard Analysis

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	Site Supervisor: Craig Haas
	Site Safety Specialist: Craig Haas
	Date Reviewed:

Activity Hazard Analysis

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	Site Safety Specialist: Craig Haas
	Date Reviewed:

Activity Hazard Analysis

Activity: Daily Tasking	Date: 10/30/2006
Description of Work: Soil and Groundwater Sampling at Building 82	Project: CTO-0086, Building 82 and BP Wells Sites located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida
	Site Supervisor: Craig Haas
	Site Safety Specialist: Craig Haas
	Date Reviewed:

WORK TASK SEQUENCE	IDENTIFY & ANALYZE THE HAZARD	HAZARD CONTROLS
Daily Tasking (continued)	General Hazards (continued)	<ul style="list-style-type: none"> At spills and silt shall be prevented from entering storm drainage systems. Proper lifting techniques, utilize mechanical methods to move heavy objects, no one shall lift more than 60 pounds without assistance. There shall be at least two persons qualified to perform First Aid and CPR. At least one First Aid kit for the job site. All employees must have access to emergency telephone numbers and location of nearest medical facility. Each vehicle shall have a fire extinguisher. All employees shall be briefed about the hazards of Heat Stress and proper prevention. Drinking water shall be on site, and a rest area designated.
	Site Security, Sanitation	<ul style="list-style-type: none"> Security provided by Jacksonville Airport Authority; locked access gates Sanitation services supplied by port-a-john
	Temperature extremes	<ul style="list-style-type: none"> Employees shall be trained in the recognition of heat stress and the appropriate action to take. As temperature rises, it may be necessary to take more frequent and longer rest periods. Drink plenty of clear (non-caffeine) liquids, it is recommended that you alternate between fluids such as water and gator aid. If possible, schedule more strenuous work for early in the day.

Activity Hazard Analysis

Activity: Daily Tasking		Date: 10/30/2006
Description of Work: Soil and Groundwater Sampling at Building 82		Project: CTO-0086, Building 82 and BP Wells Sites located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida
		Site Supervisor: Craig Haas
		Site Safety Specialist: Craig Haas
		Date Reviewed:
WORK TASK SEQUENCE	IDENTIFY & ANALYZE THE HAZARD	HAZARD CONTROLS
Daily Tasking (continued)	Portable Electric tools	<ul style="list-style-type: none"> • Tools shall be inspected prior to each use; damaged tools shall be taken out of service immediately. • Ground Fault Circuit Interrupter (GFCI) device shall protect portable electric tools and all cord/plug connected equipment. • Unless double insulated, all electrical tools shall be three prong and grounded. • All cords and extension cords shall be free of nicks, abrasions, and splices/repairs. • Electrical tools and cords must have a UL rating. • Face shields and safety glasses with side shields shall be used when grinding or using a wire wheel.
	Hand tools	<ul style="list-style-type: none"> • All hand tools shall be free of defects, cracks, splinters, and mushroomed ends. • All defective tools shall be removed from service.
	Biological hazards	<ul style="list-style-type: none"> • Potential hazards exist for bee stings, spider, and snakebites. • Known hazards in this area are: Brown recluse and Black Widow spiders, Coral, Rattle, Cottonmouth, and Black snakes. • Some rodents have been known to be infected with rabies. • Mosquito-borne infection can cause encephalitis (West Nile Virus), the use of commercial products such as "OFF" should be considered.
	Physical toxins	<ul style="list-style-type: none"> • No direct contact with contaminated soil is not anticipated, if required then proper PPE shall be worn at all times when contact with contaminate is suspected. • Proper decontamination procedures must be followed. • Avoid contact with poison ivy, sumac, and oak. If contact is made clean area properly and disinfect.

Activity Hazard Analysis

Activity: Daily Tasking	Date: 10/30/2006
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	Site Supervisor: Craig Haas
	Site Safety Specialist: Craig Haas
	Date Reviewed:

Equipment to be used	Inspection Requirements	Training Requirements
Hand/electrical tools	Prior to commencement of work a site walk through shall be performed	Site Safety and Health Specialist
	Monitor site conditions periodically	Site Safety and Health Specialist
	Prior to each use	Proper tool handling and usage
	Daily Pre-Task Safety Plan Review	Site Safety and Health Specialist

PRINT

SIGNATURE

Supervisor Name: _____

Date/Time: _____

Safety Specialist Name: _____

Date/Time: _____

Employee Name(s): _____

Date/Time: _____

Activity Hazard Analysis

Activity: Daily Tasking	Date: 10/30/2006
Description of Work: Soil and Groundwater Sampling at Building 82	Project: CTO-0086, Building 82 and BP Wells Sites located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida
	Site Supervisor: Craig Haas
	Site Safety Specialist: Craig Haas
	Date Reviewed:

_____ **Date/Time:** _____

Activity Hazard Analysis

Activity: Mobilization	Date: 3/27/2006
Description of Work: Soil and Groundwater Sampling at Building 82	Project: CTO-0086, Building 82 located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida
	Site Supervisor: Greg Ramey
	Site Safety Specialist: Greg Ramey
	Date Reviewed:

Task Breakdown	Identify & Analyze the Hazard	Identify Hazard Control
Mobilization/Site Setup and Support Functions	Security	<ul style="list-style-type: none"> • Every effort shall be made to minimize unauthorized entry into the site. • Temporary fencing, Do Not Enter or Caution tape barriers must be considered if adequate security/protection is rendered. • Signage warning of the hazards (i.e., Construction Site Do Not Enter, Hardhats, Safety Glasses, Hearing Protection Required, etc.) shall be posted in highly visible areas, minimum spacing every 300 feet. • All visitors must sign in and be briefed about the potential site hazards. • All approved visitors entering the site must be escorted by the Site Supervisor, Site Safety Officer (SSO), or appointed representative. • At end of workday, site shall be as secure as possible (locking the gate).
	First Aid Facilities	<ul style="list-style-type: none"> • The SSO and at least one other person shall be trained in First Aid and CPR. • At least one first aid kit and bloodborne pathogen kit shall be available on site. • All site employees shall know the location of the nearest medical treatment facility and how to contact emergency facilities (telephone dial 911).
	Sanitation	<ul style="list-style-type: none"> • Cool drinking water shall be provided. Only approved potable water systems shall be used for distribution of drinking water. • Potable drinking water dispensers shall be designed, constructed, and serviced to ensure sanitary conditions, shall be capable of being closed, and shall have a tap. Containers shall be clearly marked as to their contents and shall not be used for other purposes. Water shall not be dipped from or dispensed directly into the mouth. • Use of a common cup is <i>prohibited</i> without the cup being sanitized between uses. • Employees shall pour the water from the portable container/cooler into their drinking cups; the cup shall not come in contact with the container/cooler. • Washing facilities shall be provided as needed to maintain healthful and sanitary conditions. Washing facilities shall be at or near the work site and shall be adequate for removal of the harmful substances.

Activity Hazard Analysis

Activity: Mobilization	Date: 3/27/2006
Description of Work: Soil and Groundwater Sampling at Building 82	Project: CTO-0086, Building 82 located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida
	Site Supervisor: Greg Ramey
	Site Safety Specialist: Greg Ramey
	Date Reviewed:

Task Breakdown	Identify & Analyze the Hazard	Identify Hazard Control
Mobilization/Site Setup and Support Functions	Sanitation (continued)	<ul style="list-style-type: none"> • Nonpotable water outlets dispensing water will be conspicuously posted “CAUTION – WATER UNFIT FOR DRINKING, WASHING, OR COOKING.” • Toilets – When sanitary toilet facilities are not available, chemical toilets; combustion toilets or other toilet system shall be provided. • Each toilet facility shall be equipped with toilet seat and toilet seat cover and lockable door. • Where 20 or less employees and toilet rooms may be occupied by no more than one person at a time, can be locked from the inside, and contain at least one toilet seat, separate toilet rooms for each sex need not be provided. • No more than one person at a time shall utilize the toilet facility at the same time. • If working during non-daylight hours is required than the toilet facility must have independent lighting. • Toilet facilities shall be inspected to ensure they are well stocked and clean.
	Rest area	<ul style="list-style-type: none"> • Indoor and air-conditioned/heated if possible, otherwise a shaded rest area shall be established. This area shall be shaded and away form the work area (exclusion zone). • If eating and drinking is permitted at this site, trash receptacles and/or plastic bags shall be available and emptied at least daily, and maintained in a sanitary condition. This area shall be kept clean at all times. • Vermin control – all employees shall be instructed not to feed any animals or leave open food unattended.
	Visibility	<ul style="list-style-type: none"> • Work and operating areas shall be properly illuminated. Must be able to read a newspaper without any difficulty.
	Communications	<ul style="list-style-type: none"> • Reliable communication (radio’s, cell phones or telephones) shall be established. • Warning/Alert signals such as air horn should be considered. • An employee working alone in a remote location or away from other workers shall be provided a means of emergency communications.

Activity Hazard Analysis

Activity: Mobilization	Date: 3/27/2006
Description of Work: Soil and Groundwater Sampling at Building 82	Project: CTO-0086, Building 82 located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida
	Site Supervisor: Greg Ramey
	Site Safety Specialist: Greg Ramey
	Date Reviewed:

Task Breakdown	Identify & Analyze the Hazard	Identify Hazard Control
Mobilization/Site Setup and Support Functions	Erosion/Sediment Control	<ul style="list-style-type: none"> Silt fencing and/or hay bails shall be placed in areas where site run-off may enter storm drainage systems or any other waterways such as a stream. Proper lifting techniques and tool usage shall be followed.
Equipment to be used	Inspection Requirements	Training Requirements
	A competent person shall conduct a site walk through inspection prior to and at the end of each workday.	Site Supervisor, Site Safety Officer and or the Site Quality Control Inspector Prior to any work being performed, a site walk through shall be conducted so each employee knows what will be performed and a good understanding of the site lay out.

PRINT

SIGNATURE

Supervisor Name: _____

Date/Time: _____

Safety Officer Name: _____

Date/Time: _____

Employee Name(s): _____

Date/Time: _____

Activity Hazard Analysis

Activity: Sampling	Date: 10/30/2006
Description of Work: Soil and Groundwater Sampling at Building 82	Project: CTO-0086, Building 82 located on former NAS Cecil Field, now known as the Cecil Field Commerce Center, Jacksonville, Florida Site Supervisor: Craig Haas Site Safety Specialist: Craig Haas Date Reviewed:

Task Breakdown	Identify & Analyze the Hazard	Identify Hazard Control
Sampling Event	General Hazards	<ul style="list-style-type: none"> • The "buddy system shall be used when work is being performed. • Ensure all workers know their assignments. • Sampling shall be performed or directly supervised by a trained person. • Minimum PPE - safety glasses with side shields, safety toed boots, long pants and shirts with a minimum 3" sleeve. Additional PPE to include but not limited to : face shield, splash suit, rubber/latex gloves, etc. the level of PPE is directly related to the scope of work being performed. • All visitors shall be given a Safety/ Hazard brief. • Area shall be restricted to prevent unauthorized entry. • Minimum illumination must be able to read a newspaper without difficulty. • Hearing protection shall be required if shouting is needed to hear someone 3 feet away. • Job site shall be kept clean and orderly, debris shall be stored properly and collection containers shall be emptied at regular intervals or as needed. • Wash/rinse water shall be available. • Tools, equipment, materials and supplies will be kept stored in an orderly manner. • Proper lifting techniques will be utilized and the two person method will be used for objects more than 60 pounds • There shall be at least two persons qualified to perform First Aid and CPR. • At least one First Aid kit for the job site, the vehicle First Aid kit will be adequate for small jobs. • All employees will have access to emergency telephone numbers and location of nearest medical facility. • Each vehicle will have a fire extinguisher. • All employees shall be briefed about the hazards of heat stress and proper prevention. • Drinking water shall be available, and a rest area designated.

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	Unsanitary Drinking Water	<ul style="list-style-type: none"> • Sample Coolers <u>SHALL NOT</u> be used to store beverages or food products. • Water/liquid dispenser must have a good seal to prevent contamination from outside source. Dispenser shall be used for storage of beverage only No food, canned/bottled drinks or other materials are to be stored inside dispenser. • Water/liquid must be dispensed into a disposable or sanitized drinking container. Cups or containers shall not be dipped into the container. Nothing should come in contact with the spout where the liquid is being dispensed. • Dispenser must be sanitized before it is first used and on a regular basis thereafter (daily). • If ice is used in the dispenser, the ice shall not come into contact with any outside source, which includes; unprotected hands, the outside of the ice bag, a knife used to cut the ice bag, etc. • Plastic bottles that are used for drinking water shall be clearly labeled and not stored in direct contact with concrete.
	Hand Augering	<ul style="list-style-type: none"> • Avoid all contact with sharp edges. • Do not come in direct contact with soil. • All excess soil shall be placed back in the hole.
	Product Contact	<ul style="list-style-type: none"> • Additional PPE of latex sampling gloves shall be worn during the sampling and until after all appropriate surfaces are decontaminated. • A stainless steel sampling spoon shall be used to extract solid samples. • Pumps or tubes shall be used to extract liquid samples.

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Equipment to be used	Inspection Requirements	Training Requirements
Hand Auger	Visual	Annual HAZWOPER training and Medical monitoring required HAZCOM training as required
Stainless Steel Sampling Equipment	Visual	

PRINT

SIGNATURE

Supervisor Name: _____

Date/Time: _____

Safety Officer Name: _____

Date/Time: _____

Employee Name(s): _____

Date/Time: _____

Date/Time: _____

Date/Time: _____

Date/Time: _____

Date/Time: _____