305608

August 16, 2016 Reference No. 077150

Ms. Carol Crooks
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Dear Ms. Crooks:

Re: Remedial Site Investigation Work Plan
Bluewater Thermal Solutions LLC
VCC # 14-6226
Fountain Inn, Laurens County, South Carolina

GHD is providing the attached revised Remedial Site Investigation Work Plan (Work Plan) for the Bluewater Thermal Solutions (Bluewater) Site located at 100 Hunts Bridge Road in Fountain Inn, South Carolina. This Work Plan was revised based on the requirement of the May 2015 Voluntary Cleanup Contract (VCC # 14-6226), SCDHEC comments dated December 3, 2015 and onsite meeting with SCDHEC on July 19, 2016.

The Work Plan is revised to focus more on source area delineation and horizontal delineation of groundwater impact at the site by installing six shallow monitoring wells at the proposed locations. One deep monitoring well will also be installed paired with the shallow well at the former temporary well locations BH-4 and BH-5. Soil samples (shallow and deep) will also be collected downgradient of the area identified as tote, construction and household debris area. Attached are two hard copies and one electronic copy (compact disk) of the Work Plan.

Please contact the undersigned or Mr. Richard Scherer with Lippes Mathias Wexler Friedman LLP for any comments or questions on the report and attachments.

We appreciate the input which will be provided by your unit during the review of this report.

Sincerely,

GHD

Terefe Mazengia, PG.

TM/tb/2
Encl.

cc: Richard Scherer, Lippes Mathis Wexler Friedman, LLP
Steven Wilsey, GHD

GHD Services Inc.
3075 Breckinridge Boulevard Suite 470 Duluth Georgia 30096 USA
T 770 441 0027 **F** 770 441 2050 **W** www.ghd.com

(12)

Remedial Site Investigation Work Plan

Bluewater Thermal Solutions
100 Hunts Bridge Road
Fountain Inn, South Carolina

Lippes Mathias Wexler Friedman LLP

GHD | 3075 Breckinridge Blvd., Suite 470 Duluth Georgia 30096
077150 | Report No 7 | August 15 2016

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1. Introduction

GHD on behalf of Gibraltar Industries Inc. (Gibraltar), hereby submits to the South Carolina Department of Health and Environmental Control (SCDHEC) this revised Remedial Site Investigation Work Plan (Work Plan) for the former Bluewater Thermal Solutions facility, located at 100 Hunts Bridge Road in Fountain Inn, South Carolina (Property or Site), based upon the requirement of the State of South Carolina Voluntary Cleanup Program (VCP). This revised Work Plan has been updated based on comments received from SCDHEC in a letter dated December 3, 2015 and based on onsite meeting with SCDHEC on July 19, 2016. The Site Location Map and the Site Plan are provided as Figures 1 and 2, respectively.

The purpose of this Work Plan is to provide the technical requirements and procedures for implementation of the Work Plan to delineate groundwater impact. This Work Plan was prepared based on site historical information and site assessment requirements detailed in the May 27, 2015 executed Voluntary Cleanup Contract (VCC 14-6226-RP), which is provided as Appendix A for reference. Phase II and Supplemental Phase II Environmental Site Assessments (ESA) were conducted at the site in August 2012 and November 2013, respectively.

The activities to be performed are detailed in the following sections and include the preparation for and performance of remedial investigation activities, as approved by the SCDHEC.

1.1 Scope of Work

The scope of work (SOW) of the Work Plan includes the following:

- Preparation of a Site-specific Health and Safety Plan (HASP). Prior to initiating Site work, GHD will submit a copy of the HASP to the SCDHEC per Section 4 of the VCC 14-6226-RP.
- Notification of the South Carolina One Call Center (SC 811) to clear underground utilities in the immediate vicinity of the site and solicitation and procurement of a contract with a private utility locator to locate potential underground utilities and provide utility clearance at the site.
- Solicitation and procurement of a contract with a South Carolina-licensed driller to install shallow and deep monitoring wells.
- Installation of six shallow and one deep monitoring well. Advancement of borings to depths ranging from 25 to 30 feet below ground surface (ft. bgs) for the shallow and 50 to 60 ft. bgs for the deep monitoring wells to delineate the horizontal and vertical groundwater impact, respectively.
- Soil sampling at two shallow monitoring well locations, between BH-4 and BH-5 and northwest of the water tank and one additional soil boring in the vicinity of BH-3.
- Three Soil sample locations downgradient of the tote, construction and household debris area.
- Develop monitoring wells after 24 hours of well construction to remove silt introduced during the well installation process. Groundwater samples will be collected 24 hours following the well development.
- Place groundwater samples from all monitoring wells in laboratory-supplied containers filled with ice and ship under standard chain-of-custody (COC) protocol to a South Carolina-licensed laboratory for analysis on a standard turnaround time (TAT) (7 business days). All groundwater

samples will be analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) and select TCL semi-volatile organic compounds (SVOCs) and Target Analyte List (TAL) metals.

- Survey and gauge monitoring wells to facilitate hydraulic evaluations (gradients and groundwater flow direction).
- Drum soil cuttings and water generated during well installation and groundwater sampling and stage on-site for subsequent characterization and off-Site disposal.
- Within 30-days after well installation, coordinate with the drilling contractor to ensure applicable water well records (DHEC 1903) are generated and included in the remedial investigation report.

1.2 Pre-Field Activities

Prior to performing any field activities, GHD will prepare a Site-specific HASP conforming to OSHA standards and hire a private underground utility locator to clear potential underground utilities at the drilling area in addition to contacting the South Carolina One Call Center (Call 811) to mark utilities prior to commencement of work.

In accordance with the South Carolina Well Standards Regulation 61-71, a permit to construct a monitoring well will be required. A Monitoring Well Application form (i.e., SC DHEC Form 3736) is completed and included as Appendix B for advancing the monitoring wells for environmental sampling at the Site. The permit will be obtained prior to mobilization to advance the monitoring wells.

A simplified scope of work (SSOW) will also be prepared for all analytical services and an agreement will be executed with SC certified laboratories in accordance with the provisions of Regulation 61-81. Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia will be used for analytical services for the groundwater and select soil samples. The environmental laboratory certification for AES is provided as Appendix C.

2. Description of Site Assessment

The Site assessment will include installation of six shallow monitoring wells for groundwater sampling to define the horizontal extent of groundwater impact. One deep monitoring well will be paired with the shallow monitoring well between the former temporary well locations BH-4 and BH-5 for vertical delineation. Select soil samples may also be collected from surface (0 to 2 ft. below ground surface (bgs)) and above the water table at this location and select other locations based on field observations and photo-ionization detection (PID) readings, if required. The deep monitoring well at the current groundwater plume will be installed as nested well next to the shallow. These monitoring wells will be used for delineation purposes and for future groundwater monitoring. Proposed monitoring well locations are provided on Figure 3.

2.1 Soil Sampling

Soil samples were collected at various depths above the water table at all borehole locations (BH-2 through BH-8) except at BH-1 and analyzed for TCL VOCs, TCL SVOCs and RCRA metals during the November 2013 Supplemental Phase II ESA. Surface soil was collected from BH-5. No

exceedance was reported at all locations as compared to the United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for industrial soils.

During this site assessment, soil samples will be collected starting from the surface every 5 feet to first water encounter using split spoon sampler inside hollow stem auger (HSA). All samples will be examined for soil type, stratigraphy, banding, moisture, color, and visual evidence of potential impact. The stratigraphy observed in each soil boring will be described and logged according to the Unified Soil Classification System (USCS). Representative portions of the soil from each interval will be screened for total VOCs with a PID, and a soil sample will be collected for laboratory analysis from the interval above the water table, if high PID reading (> 50 ppm) is detected or visual evidence of staining or potential impact is observed at a shallower depth. A surface (0 to 2 ft bgs) and deep (above water table) soil samples will collected from monitoring well locations inside the suspected source area. The soil samples will be analyzed for TCL VOCs, TCL SVOCs and TAL metals. The soil sampling during this event will help fill in the data gaps in areas or intervals which were not sampled during the previous two Phase II events.

Three soil borings will be installed using a DPT downgradient of the area identified as tote, construction and household debris area and one shallow (0 to 2 feet bgs) and one deep (above the water table) soil sample will be collected from each boring location. All soil samples will be analyzed for TCL VOCs, TCL SVOCs and TAL metals.

2.2 Monitoring Well Installation

The six shallow monitoring wells will be installed at and around the groundwater plume which was defined by the 2013 Supplemental Phase II ESA and at property boundaries. A shallow and a deep monitoring well pair will be installed in the suspect source area between BH-4 and BH-5. One more monitoring will be installed south of Building 6, northwest of the water tank. Two shallow monitoring wells will also be installed further south by the tree line for horizontal delineation. One shallow monitoring well will be installed at the downgradient portion of the site east of BH-1. One monitoring well will be installed on the front side of the property next to the former soil boring EB-5 (August 2012) for background purpose.

Monitoring wells will be installed in general accordance to the USEPA Region 4, Science and Ecosystem Support Division (SESD), Field Branches and Quality System and Technical Procedures (FBQSTP) (SESDGUID-101-R1) and GHD's Standard Operating Procedures (SOPs). The shallow monitoring wells will be drilled and installed to the approximate depth of 25 to 30 feet bgs using 4¼-inches inside diameter HSA drilling techniques. The deep monitoring well will be installed to the approximate depth of 50 to 60 feet bgs using HSA. In the event that shallow bedrock is encountered, the deep monitoring wells will be drilled and installed using air rotary drilling method to the targeted depth. The deep well will be installed with a surface casing (double cased) to protect any pathway for potential deep migration of contamination from the shallow.

Each monitoring well will be completed with standard 2-inch diameter PVC casing with 10-foot machine slotted #10, schedule 40 PVC screen. The annular spaces around the wells will be filled with sand to a depth of approximately 2-feet above the top of the screened interval. At least 2-foot thick layer of bentonite chips will be poured in above the sand to create a seal. The remaining space will be filled with cement and bentonite grout mix. All monitoring wells will be finished with flush mount covers within a 2-foot by 2-foot concrete pad. The monitoring wells will also be secured with locks.

The monitoring wells will be developed after 24 hours of well construction to remove any silt introduced during the well installation process. Groundwater samples will be collected 24 hours following the well development.

Groundwater samples will be collected using low-flow purging and sampling technique. Field parameters will be collected during purging to determine the adequacy of the groundwater purging. In the event that higher drawdown that exceeds 0.35 feet is observed during the low-flow purging event, multi-volume purging and sampling technique will be implemented by removing at least three well volumes of water or until the well is dry. During this sampling event, groundwater samples from the shallow wells will be analyzed for TCL VOCs, SVOCs and RCRA metals.

Soil cuttings and water generated during well installation, purging and sampling activities will be drummed and staged on-site for subsequent characterization and off-site disposal. Following the completion of sampling activities at each soil boring location, the borehole will be filled with bentonite chips, and the surface material will be restored to match the original condition and grade.

Top of casing elevations and the corresponding x-y coordinates of monitoring wells will be surveyed to assist in evaluating the groundwater elevations and the groundwater flow directions.

3. Potential for Vapor Intrusion

A complete vapor intrusion pathway indicates that there is an opportunity for human exposure, which warrants further analysis to determine whether there is a basis for undertaking a response action. Depending upon building- and site-specific circumstances, concentrations of chemical vapors indoors arising from a complete vapor intrusion pathway may warrant further assessment and a response action, if needed. On the other hand, if it is reasonably expected that vapor migration is significantly and persistently impeded by natural geologic, hydrologic, or biochemical processes and conditions, the vapor intrusion pathway is referred to as “incomplete.” USEPA recommends that any determination that the vapor intrusion pathway is incomplete be supported by site-specific evidence to demonstrate that the nature and extent of vapor-forming chemical contamination in the subsurface has been well characterized and the types of vapor sources and the conditions of the vadose zone and surrounding infrastructure do not present opportunities for unattenuated or enhanced transport of vapors toward and into any building. When the vapor intrusion pathway is determined to be incomplete, then vapor intrusion mitigation is not generally warranted.

The site will be evaluated under industrial land use scenario. The industrial exposure scenario assumes exposures based on adult workers, including occupational receptors, trespassers, and construction/utility workers. In the event that higher concentrations of VOCs are reported in groundwater beneath the building and a soil vapor assessment is deemed necessary, we prefer installing a vapor mitigation system in lieu of additional soil vapor sampling. The need for the vapor mitigation system will be contingent upon the use of the building and the duration of occupancy.

4. Remedial Investigation Report

Preparation of the Remedial Investigation Report (RIR) will be completed in accordance with the provisions detailed in Section 3 (RESPONSE ACTION). In summary, the Remedial Investigation Report will:

- Include a discussion of investigation methods and any deviations from the approved Plan.
- Include tables and figures to summarize all data.
- Include a surveyed map documenting sampling locations.
- Include documentation of field observations including boring logs, sample descriptions, field screening results, and all laboratory analytical data.
- Be signed and sealed by a Professional Geologist duly-licensed in South Carolina.

The RIR will be submitted to SCDHEC for review as two hard copies and one electronic copy (.pdf format on a compact disk). The report will include copies of the stratigraphic description and well construction logs and the analytical data in accordance with SCDHEC requirements.

Upon completion of groundwater delineation, if necessary and if a suitable remedy is identified, we prefer to conduct a focused feasibility and propose a pilot groundwater remediation to expedite the remedial action. All proposed activities will be communicated and agreed with SCDHEC before implementation.

5. Project Schedule

Following approval of this work plan by SCDHEC, GHD will start contacting private utility locating and drilling contractors to initiate the remedial investigation. The field activities are anticipated to last approximately 8 to 10 days. A minimum of 5 days' notice will be provided to SCDHEC in accordance with Section 5 (RESPONSE ACTION), of the VCC 14-6226-RP. GHD is also submitting a copy of the Site Specific HASP to the SCDHEC as separate report as per Section 4 of the VCC 14-6226-RP.

The soil and groundwater samples will be analyzed based on a standard 7 business day TAT for the laboratory. The Remedial Investigation Report, including copies of analytical data, will be submitted to the SCDHEC no later than 45 days following receipt of laboratory data.

6. Project Contacts

In accordance with Section 3 (RESPONSE ACTION) of the VCC 14-6226-RP - for matters related to this this Work Plan, the following can be contacted:

Responsible Parties (Bodycote Thermal Processing Inc. and Gibraltar Industries Inc.):

Name:	c/o Richard M. Scherer, Jr.
	Lippes Mathias Wexler Friedman LLP
Address:	50 Fountain Plaza, Suite 1700, Buffalo, New York 19202
Telephone:	(716) 853-5100

Consultant (GHD Services Inc):

Name: Terefe Mazengia, Professional Geologist
Address: 3075 Breckinridge Boulevard, Suite 470, Duluth, Georgia 30096
Telephone: (678) 280-2140

Analytical laboratories:

Analytical Environmental Services (AES)
Name: Christopher Pafford, Project Manager
Address: 3080 Presidential Drive, Doraville, Georgia 30340
Telephone: (770) 457-8177

7. Certification

In accordance with Section 3 (RESPONSE ACTION) of the VCC 14-6226-RP, this Work Plan is signed as sealed below by a Professional Geologist duly-licensed in the State of South Carolina.

Professional Geologist Statement

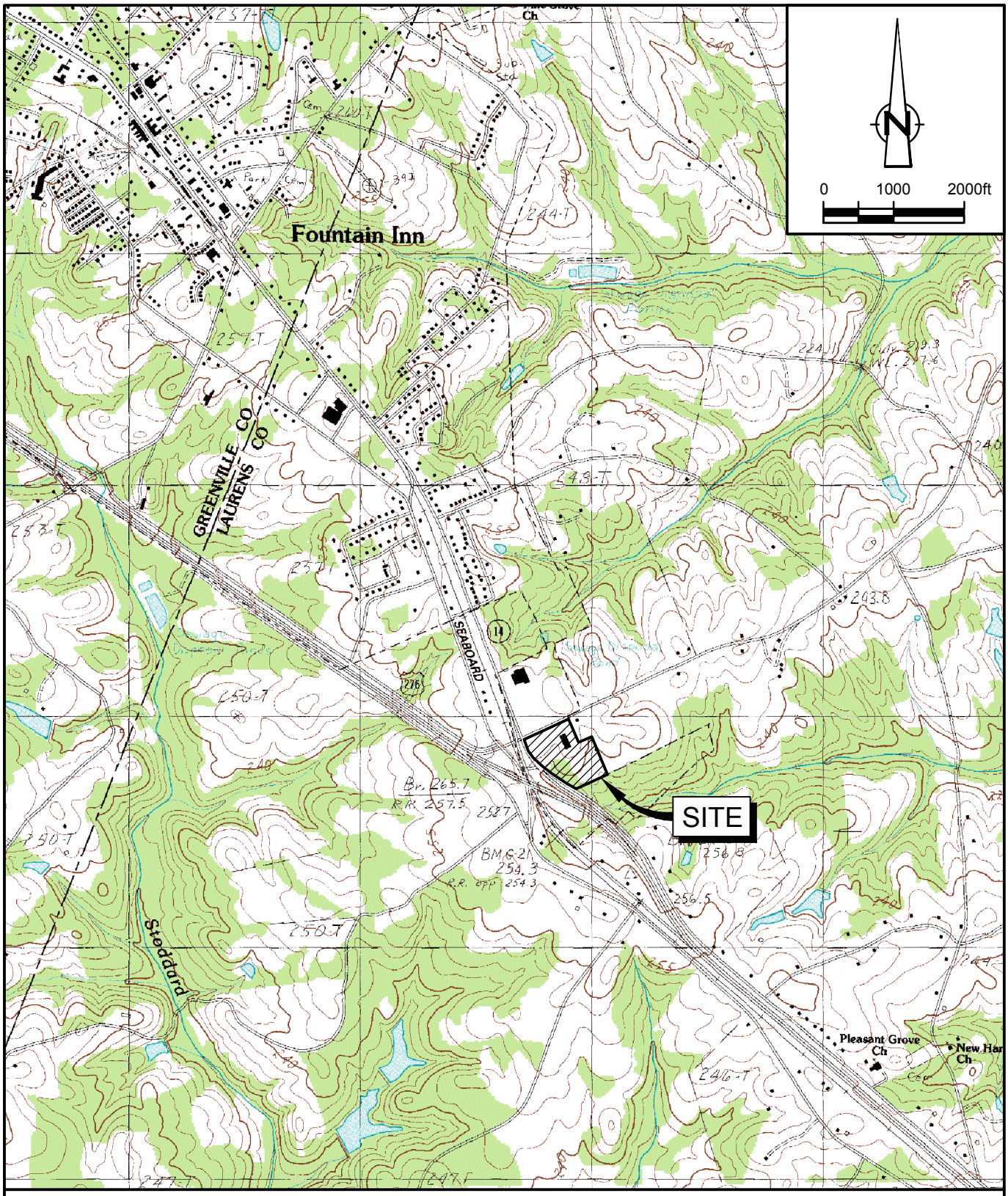
I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this Remedial Site Investigation Work Plan was prepared in conjunction with others working under my direction.

Terefe Mazengia, PG

Printed Name (Professional Geologist)

Signature (Professional Geologist)

Figures

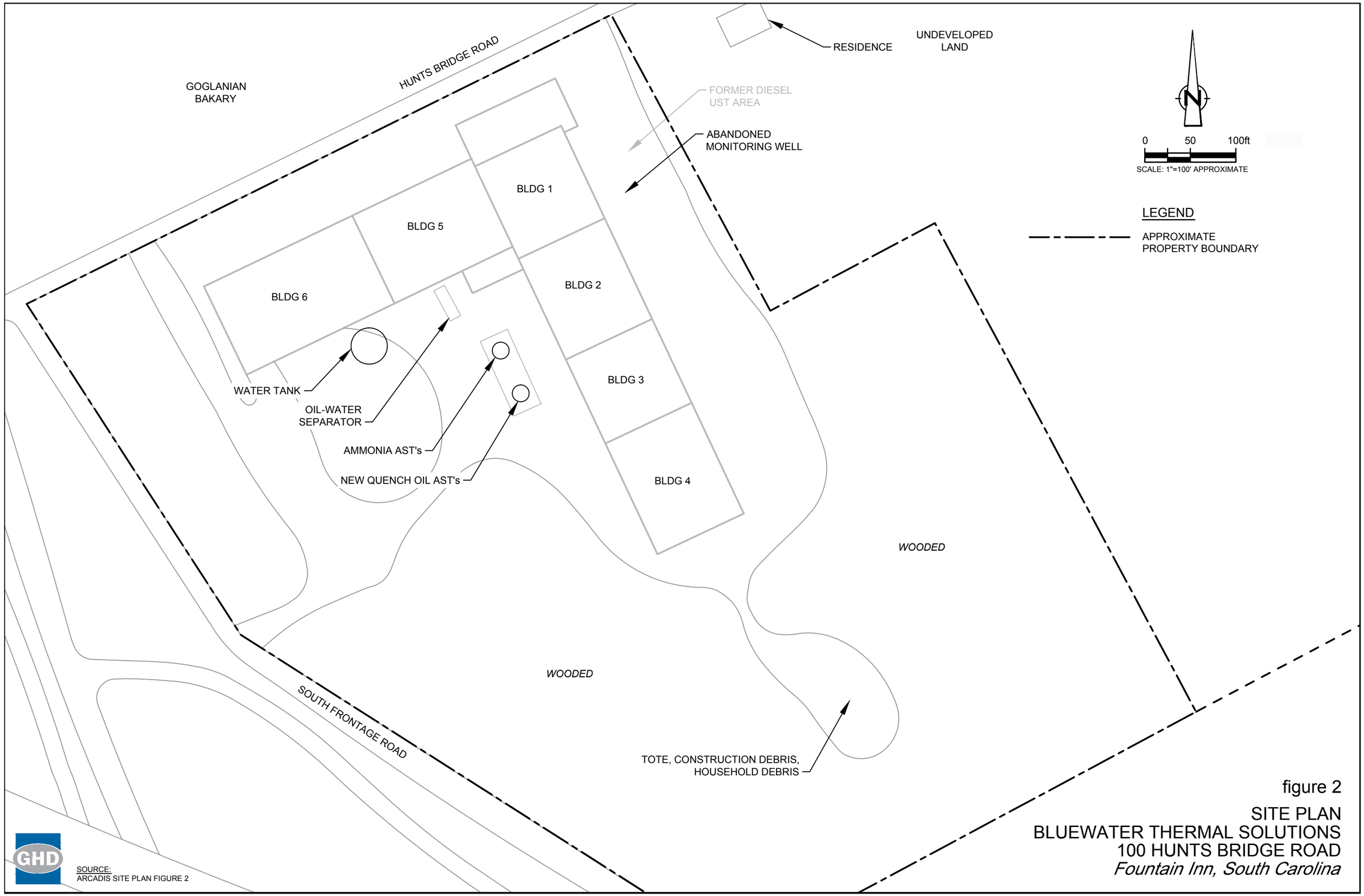


SOURCE: USGS QUADRANGLE MAP: FOUNTAIN INN, SC.

figure 1

SITE LOCATION MAP
BLUEWATER THERMAL SOLUTIONS
100 HUNTS BRIDGE ROAD
Fountain Inn, South Carolina

77150-001(007)GN-WA001 AUG 19/2015

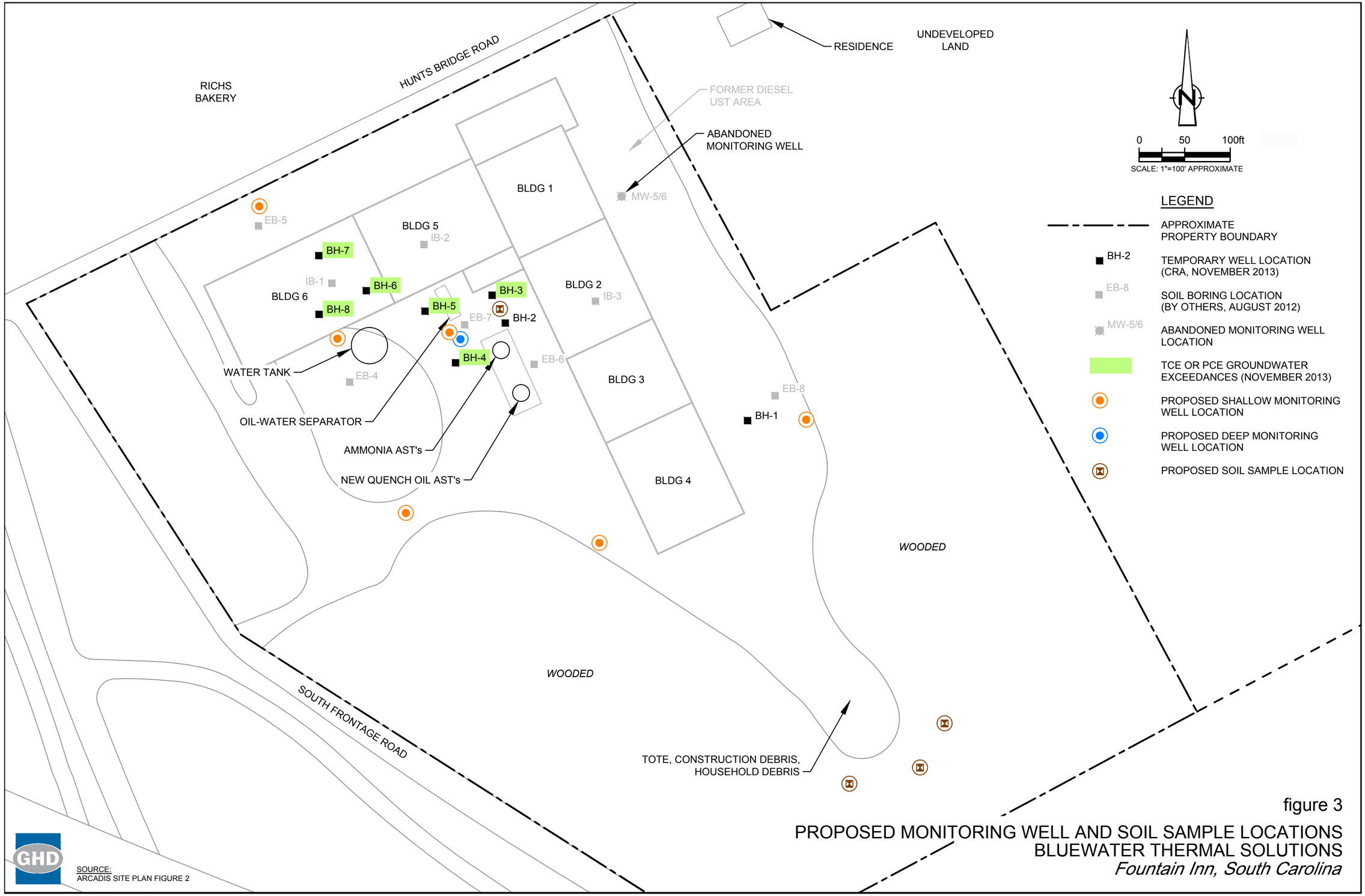


SOURCE:
ARCADIS SITE PLAN FIGURE 2

figure 2

SITE PLAN
BLUEWATER THERMAL SOLUTIONS
100 HUNTS BRIDGE ROAD
Fountain Inn, South Carolina

77150-001(007)GN-WA002 AUG 19/2015



SOURCE:
ARCADIS SITE PLAN FIGURE 2

figure 3

PROPOSED MONITORING WELL AND SOIL SAMPLE LOCATIONS
BLUEWATER THERMAL SOLUTIONS
Fountain Inn, South Carolina

77150-001(007)GN-WA003 JUL 21, 2016

Appendices

Appendix A
Voluntary Cleanup Contract (VCC 14-622-RP)

D H E C
PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director
Promoting and protecting the health of the public and the environment

May 27, 2015

CERTIFIED MAIL – 92148969009997901401071627
Return Receipt Requested

Richard M. Scherer, Jr.
Lippes Mathias Wexler Friedman LLP
665 Main Street, Suite 300
Buffalo, New York 14203

Re: Responsible Party Voluntary Cleanup Contract;
Bluewater Thermal Solutions Site;
Laurens County.

Dear Mr. Scherer:

Please find enclosed a Certified as True and Correct Copy of Responsible Party Voluntary Cleanup Contract 14-6226-RP which was executed by the Department on May 27, 2015.

Thank you for your patience and cooperation in this matter. The Department looks forward to working with Bodycote Thermal Processing, Inc. and Gibraltar Industries, Inc. to address this Site under the South Carolina Voluntary Cleanup Program. Should you wish to further discuss the terms of the contract, please telephone either Gary Stewart at (803) 898-0778, or me at (803) 898-0882.

Yours very truly,

David Wilkie

David Wilkie, Environmental Health Manager
Division of Site Assessment, Remediation & Revitalization
Bureau of Land and Waste Management

Enclosure

cc: Ken Taylor, L&WM
Gary Stewart, L&WM
John Cresswell, L&WM
Natalie Kirkpatrick, Director, EQC Upstate
Carol Crooks/Pat Vincent/Shawn Reed/Karen Clymer/Linda Jackson, L&WM
BLWM File 305608

VOLUNTARY CLEANUP CONTRACT
14- 6226 -RP

IN THE MATTER OF
BLUEWATER THERMAL SOLUTIONS SITE, LAURENS COUNTY
and
BODYCOTE THERMAL PROCESSING, INC. and
GIBRALTAR INDUSTRIES, INC.

This Contract is entered into by the South Carolina Department of Health and Environmental Control, Bodycote Thermal Processing, Inc. and Gibraltar Industries, Inc., pursuant to the Brownfields/Voluntary Cleanup Program, S.C. Code Ann. §§ 44-56-710 through 760, as amended, the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. §§ 9601 to 9675, as amended, and the South Carolina Hazardous Waste Management Act (HWMA), S.C. Code Ann. § 44-56-200, with respect to the facility known as the Bluewater Thermal Solutions Site ("Site"). The property is located at 100 Hunts Bridge Road, Fountain Inn, South Carolina ("Property"). The Property includes approximately 15.62 acres and is bounded generally by industrial property and Hunts Bridge Road on the north, mixed agricultural and residential property on the east, Frontage Road and I-385 on the south, and I-385 on the west. The Property is identified by the County of Laurens as Tax Map Serial Number 904-08-01-001; and a legal description of the Property is attached to this Contract as Appendix A.

DEFINITIONS

1. Unless otherwise expressly provided, terms used in this Contract shall have the meaning assigned to them in CERCLA, the HWMA, and in regulations promulgated under the foregoing statutes, or the Brownfields/Voluntary Cleanup Program.

A. "Respondents" shall mean Bodycote Thermal Processing, Inc. and Gibraltar Industries, Inc. Bodycote Thermal Processing, Inc. is a Delaware corporation authorized to do business in South Carolina with its principal place of business located at 12700 Park Central

Drive, Dallas, TX. Gibraltar Industries, Inc. is a Delaware corporation with its principal place of business located at 3556 Lake Shore Road, Buffalo, NY.

B. "Contract" shall mean this Responsible Party Voluntary Cleanup Contract.

C. "Pollutant" or "Contaminant" includes, but is not limited to, any element, substance, compound, or mixture, including disease-causing agents, which after release into the environment and upon exposure, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions, including malfunctions in reproduction, or physical deformations, in organisms or their offspring; "contaminant" does not include petroleum, including crude oil or any fraction of crude oil, which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (i) through (vi) of Paragraph (D) of CERCLA § 101, 42 U.S.C. §§ 9601, as amended, and does not include natural gas, liquefied natural gas, or synthetic gas of pipeline quality or mixtures of natural gas and such synthetic gas.

D. "Contamination" shall mean impact by a Contaminant or Hazardous Substance.

E. "Department" shall mean the South Carolina Department of Health and Environmental Control or a successor agency of the State of South Carolina that has responsibility for and jurisdiction over the subject matter of this Contract.

F. "Hazardous Substance" shall have the same meaning as defined under subparagraphs (A) through (F) of Paragraph (14) of CERCLA, Section 101, 42 U.S.C. Section 9601(14).

G. "Oversight Costs" means those costs, both direct and indirect,

incurred by the department in implementing the voluntary cleanup program.

H. "Property" as described in the legal description attached as Appendix A, shall mean that portion of the Site, which is subject to ownership, prospective ownership, or possessory or contractual interest of Respondents.

I. "Response Action" shall mean any assessment, cleanup, inspection, or closure of a site as necessary to remedy actual or potential damage to public health, public welfare, or the environment.

J. "Site" shall mean all areas where a Hazardous Substance, Pollutant or Contaminant has been released, deposited, stored, disposed of, or placed, or otherwise comes to be located; "Site" does not include any consumer product in consumer use or any vessel, as defined in CERCLA.

K. "Voluntary Cleanup" shall mean a Response Action taken under and in compliance with the Brownfields/Voluntary Cleanup Program, S.C. Code Ann. §§ 44-56-710 to 760, as amended.

L. "Work Plan" shall mean the plan for additional Response Actions to be conducted at the Site as described in Paragraph 3 of this Contract.

FINDINGS

2. Based on the information known by or provided to the Department, the following findings are asserted for purposes of this Contract:

A. Carolina Commercial Heat Treating, Inc. (CCHT) opened the facility in 1968.

B. The Property had certain underground storage tanks (UST) containing gasoline, diesel fuel, motor oil, and waste oil. Over the

years, CCHT had numerous site assessments and UST removals performed under the Department's UST program oversight. These activities occurred between 1990 and 2013.

C. According to a Conestoga-Rovers and Associates Groundwater Investigation Results report dated December 13, 2013, tetrachloroethene, trichloroethene and other organic solvents were detected in one or more of the temporary monitoring wells installed during their November 2013 investigation of the Site.

D. The CCHT facility provided thermal processing for steel, stainless steel, cast irons, and other industrial materials. On February 14, 1996, pursuant to a certain Stock Purchase Agreement, Gibraltar Steel Corporation of New York (GSCNY) acquired CCHT. CCHT continued operations as a division of GSCNY. On June 30, 2006, pursuant to a certain Asset Purchase Agreement, Bluewater Thermal Processing, LLC purchased substantially all of the assets and certain liabilities of CCHT (among other operations) from GSCNY, including the Property. At this point the name was changed to Bluewater Thermal Processing.

E. On October 16, 2012, Bodycote acquired the Property from Bluewater Thermal Processing, LLC's wholly owned subsidiary CCHT LLC.

RESPONSE ACTIONS

3. Respondents agree to submit to the Department for review and written approval within sixty (60) days of the execution date of this Contract, by the Department, a Work Plan for the Site that is consistent with the technical intent of the National Contingency Plan. The Work Plan shall be implemented upon written approval from the Department. The Work Plan shall include the names, addresses, and telephone numbers of the consulting firm, the analytical laboratory certified by the Department, and Respondents' contact person for matters relating to this Contract. Respondents will notify the Department in writing of changes in the contractor or laboratory. The Department will

review the Work Plan and will notify Respondents in writing of any deficiencies in the Work Plan, and Respondents will respond in writing to the Department's comments within thirty (30) days. The Work Plan and all associated reports shall be prepared in accordance with industry standards and endorsed by a Professional Engineer (P.E.) and/or Professional Geologist (P.G.) duly-licensed in South Carolina and shall set forth methods and schedules for accomplishing the following tasks:

A. Conduct a Remedial Investigation (RI) to determine the source, nature, and extent of Contamination at the Site.

B. Submit to the Department an RI Report (to include a Baseline Risk Assessment or other evaluation of risk to human health and the environment) in accordance with the schedule in the approved RI Work Plan. The Department shall review the report for determination of completion of the RI and sufficiency of the documentation. If the Department determines that the field investigation is not complete, it will send written notification of such to Respondents, and Respondents shall subsequently conduct additional field investigation to further determine the source, nature, and extent of Contamination. If the Department determines that the field investigation is complete but the report is incomplete, the Department shall send to Respondents a letter indicating that revision of the report is necessary. Within thirty (30) days of receipt of such letter from the Department, Respondents shall submit a revised report addressing the Department's comments.

C. If determined necessary by the Department, conduct a Feasibility Study or other evaluation of remedial and/or removal alternatives for addressing Contamination at the Site.

4. Respondents shall prepare and submit under separate cover from the Work Plan, a Health and Safety Plan that is consistent with Occupational Safety and Health Administration regulations. The Health and Safety Plan is submitted for information

purposes only to the Department. The Department expressly disclaims any liability that may result from implementation of the Health and Safety Plan by Respondents.

5. Respondents shall inform the Department in writing at least five (5) working days in advance of all field activities pursuant to this Contract and, if deemed necessary by the Department, shall allow the Department and its authorized representatives to take duplicates of any samples collected by Respondents pursuant to this Contract.

6. Within ninety (90) days of the execution date of this Contract, by the Department, and once every three months thereafter, Respondents shall submit to the Department a written progress report that must include the following: (A) actions taken under this Contract during the previous reporting period; (B) actions scheduled to be taken in the next reporting period; (C) sampling, test results, and any other data, in summary form, generated during the previous reporting period, whether generated pursuant to this Contract or not; and (D) a description of any environmental problems experienced during the previous reporting period and the actions taken to resolve them.

7. All correspondence which may or are required or permitted to be given by either party to the other hereunder shall be in writing and deemed sufficiently given if delivered by (A) regular U.S. mail, (B) certified or registered mail, postage prepaid, return receipt requested, (C) or nationally recognized overnight delivery service company, or (D) by hand delivery to the other party at the address shown below or at such place or to such agent as the parties may from time to time designate in writing.

Unless otherwise directed in writing by either party, all correspondence, work plans, and reports should be submitted to:

The Department: Carol Crooks
South Carolina Department Health & Environmental Control
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201
Crookscl@dhec.sc.gov

Respondents: Gibraltar Industries, Inc.
c/o Richard M. Scherer, Esq.
Lippes Mathias Wexler Friedman LLP
655 Main Street, Suite 300
Buffalo, New York 14203
rscherer@lippes.com

All final work plans and reports shall include two (2) paper copies and one (1) electronic copy on compact disk.

PUBLIC PARTICIPATION

8. Upon execution of this Contract, the Department will seek public participation in accordance with S.C. Code Ann. § 44-56-740(D), and not inconsistent with the National Contingency Plan. Respondents will reimburse the Department's cost associated with public participation (e.g., publication of public notice(s), building and equipment rental(s) for public meetings, etc.).

RESPONSE COST

9. In accordance with §§ 44-56-200 and 44-56-740, Respondents shall, on a quarterly basis, reimburse the Department for Oversight Costs of activities required under this Contract. Oversight Costs include, but are not limited to, the direct and indirect costs of negotiating the terms of this Contract, reviewing Work Plans and reports, supervising corresponding work and activities and costs associated with public participation. Payments will be due within thirty (30) days of the Department's invoice date. The Department shall provide documentation of its Oversight Costs in sufficient detail so as to show the personnel involved, amount of time spent on the project for each person, expenses, and other specific costs. Invoices shall be submitted to:

Respondents: Gibraltar Industries, Inc.
c/o Richard M. Scherer, Jr., Esq.
665 Main Street, Suite 300
Buffalo, New York 14203
rscherer@lippes.com

All of Respondents' payments should reference the Contract number on page 1

of this Contract and be made payable to:

The South Carolina Department of Health & Environmental Control

If complete payment of the Past Costs or of the quarterly billing of Oversight Costs is not received by the Department by the due date, the Department may bring an action to recover the amount owed and all costs incurred by the Department in bringing the action including, but not limited to, attorney's fees, Department personnel costs, witness costs, court costs, and deposition costs.

ACCESS

10. The Department, its authorized officers, employees, representatives, and all other persons performing Response Actions will not be denied access to the Site during normal business hours or at any time work under this Contract is being performed or during any environmental emergency or imminent threat situation, as determined by the Department (or as allowed by applicable law). Respondents and subsequent owners of the Property shall ensure that a copy of this Contract is provided to any lessee or successor or other transferee of the Property, and to any owner of other property that is included in the Site. If Respondents are unable to obtain access from the Property owner, the Department may obtain access and perform Response Actions. All of the Department's costs associated with access and said Response Actions will be reimbursed by Respondents.

RESTRICTIVE COVENANT

11. If hazardous substances in excess of residential standards exist at the Property after Respondents have completed the actions required under this Contract, Bodycote Thermal Processing, Inc. shall enter and file a restrictive covenant. Upon the Department's approval of the items outlined therein, the restrictive covenant shall be signed by the Department and representatives of Bodycote Thermal Processing, Inc. and witnessed, signed, and sealed by a notary public. Bodycote Thermal Processing, Inc. shall file this restrictive covenant with the Register of Mesne Conveyance or Deeds in Laurens County. The signed covenant shall be incorporated into this Contract as an

Appendix. A Certificate of Completion shall not be issued by the Department until the restrictive covenant, if required, is executed and recorded. With the approval of the Department, the restrictive covenant may be modified in the future if additional remedial activities are carried out which meet appropriate clean-up standards at that time or circumstances change such that the restrictive covenant would no longer be applicable. The Department may require Bodycote Thermal Processing, Inc. or subsequent owners of the Property to modify the restrictive covenant if a significant change in law or circumstances requiring remediation occurs. Respondents or subsequent owners of the Property shall file an annual report with the Department by May 31st of each year detailing the current land uses and compliance with the restrictive covenants for as long as the restrictive covenant remains in effect on the Property. The report must be submitted in a manner prescribed by the Department.

OBLIGATIONS AND BENEFITS

12. Upon execution of this Contract by the Department, Respondents, their signatories, parents, subsidiaries, successors and assigns, shall be deemed to have resolved their liability to the State in an administrative settlement for purposes of, and to the extent authorized under 42 U.S.C. § 9613(f)(2) and § 9613(f)((3)(B), S.C. Code Ann. § 44-56-200, for the Response Actions specifically covered in the Contract including the approved Work Plan(s) and reports. A thirty (30) day comment period shall be required prior to the Department's execution of the Contract, and shall commence upon publication of the notice of the proposed Contract in the South Carolina State Register.

13. Nothing in this Contract is intended to be, or shall be construed as, a release or covenant not to sue for any claim or cause of action, past or future, that the Department may have against a responsible party who is not a signatory to the Contract.

14. Subject to Paragraph 16, nothing in this Contract is intended to limit the right of the Department to undertake future Response Actions at the Site or to seek to compel parties to perform or pay for costs of Response Actions at the Site. Nothing in this Contract shall in any way restrict or limit the nature or scope of Response Actions that

may be taken or be required by the Department in exercising its authority under State and Federal law.

15. Subject to the provisions of Paragraph 16, nothing in this Contract is intended to be or shall be construed as a release or covenant not to sue for any claim or cause of action that the Department may have against Respondents for any matters not expressly included in this Contract.

16. Upon successful completion of the terms of this Contract and the approved Work Plan as referenced in Paragraph 3 above, Respondents shall submit to the Department a request for a Certificate of Completion.

Once the Department determines that Respondents have successfully and completely complied with this Contract, the Department, pursuant to S.C. Code Ann. § 44-56-740(A)(5) and (B)(1), will give Respondents a Certificate of Completion that provides a covenant not to sue to Respondents, their signatories, parents, successors, and subsidiaries, for the work done in completing the Response Actions specifically covered in the Contract and completed in accordance with the approved work plans and reports. The covenant not to sue and administrative settlement for purposes of contribution protection are contingent upon the Department's determination that Respondents successfully and completely complied with the Contract.

In consideration of the Department's covenant not to sue, Respondents, their signatories, parents, successors and subsidiaries agree not to assert any claims or causes of action against the Department arising out of activities undertaken at the Site or to seek other costs, damages, or attorney's fees from the Department arising out of activities undertaken at the Site, except for those claims or causes of action resulting from the Department's intentional or grossly negligent acts or omissions.

17. Respondents and the Department each reserve the right to unilaterally terminate this Contract. Termination may be accomplished by giving a thirty (30) day advance written notice of the election to terminate this Contract to the other party. Should Respondents or subsequent owners of the Site elect to terminate, it must submit to the

Department all data generated pursuant to this Contract, and certify to the Department's satisfaction that any environmental or physical hazard shall be stabilized and/or mitigated such that the Site does not pose a hazard to human health or the environment that did not exist prior to any initial Response Action addressing Contamination identified in this Contract.

18. The Department may terminate this Contract only for cause, which may include but is not limited to, the following:

A. Events or circumstances at the Site that are inconsistent with the terms and conditions of this Contract;
B. Failure to complete the terms of this Contract or the Work Plan;
C. Failure to submit timely payments for Past Costs and/or for Oversight Costs as defined in Paragraph 9 above;
D. Additional Contamination or releases or consequences at the Site caused by Respondents, their parents, successors, assigns, and subsidiaries;
E. Providing the Department with false or incomplete information or knowingly failing to disclose material information;
F. Change in Respondents' or their parents', successors', assigns', and subsidiaries' business activities on the Property or uses of the Property that are inconsistent with the terms and conditions of this Contract; or
G. Failure by Respondents to obtain the applicable permits from the Department for any Response Action or other activities undertaken at the Property.

19. Upon termination of the Contract under Paragraph 17 or 18, the covenant not to sue and administrative settlement for purposes of contribution protection shall be null and void. Termination of the Contract by Respondents or the Department does not end the obligations to reimburse Oversight Costs already incurred by the Department and payment of such costs shall become immediately due.

THIS IS CERTIFIED AS A TRUE
AND CORRECT COPY
SIGNATURE David Wilkie

20. The signatories below hereby represent that they are authorized to and enter into this Contract on behalf of their respective parties.

THIS IS CERTIFIED AS A TRUE
AND CORRECT COPY
SIGNATURE David Wilkie

THE SOUTH CAROLINA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL CONTROL

BY: Sandra L Clark for DATE: 5-27 5-27-15
Daphne G. Neel, Chief
Bureau of Land and Waste Management
Environmental Quality Control

Claire H Prince DATE: 5-27-15
Reviewed by Office of General Counsel

BODYCOTE THERMAL PROCESSING, INC.

Stephanie Edgar DATE: Feb 16, 2015
Signature

Stephanie Edgar, VP NASSC
Printed Name and Title

GIBRALTAR INDUSTRIES, INC.

DATE: Feb, 19, 2015
Signature

Timothy F. Murphy, VP Treasurer
Printed Name and Title

THIS IS CERTIFIED AS A TRUE AND CORRECT COPY.

SIGNATURE David Wilkin

APPENDIX A

Legal Description of the Property

County of Laurens

Tax Map Serial Number 904-08-01-001

LAURENS CO ASSESSORS OFFICE
TMS:
904-08-01-001

LYNN W. LANCASTER
CLERK OF COURT
LAURENS COUNTY, SC
BY: ROSLYN JOHNSON CLERK
BK: D 1088
PG: 233 - 238

STATE OF SOUTH CAROLINA

COUNTY OF LAURENS

LIMITED WARRANTY DEED

THIS IS CERTIFIED AS A TRUE AND CORRECT COPY
SIGNATURE David Wilkin

KNOW ALL BY THESE PRESENTS THAT CCHT LLC hereinafter referred to as the "Grantor", in the State aforesaid, in consideration of the sum of Five and no/100 ($5.00) Dollars, to Grantor well and truly paid by Bodycote Thermal Processing, Inc. a Delaware corporation hereinafter referred to as the "Grantee", at and before the sealing and delivery hereof; the receipt of which is hereby acknowledged, has granted, bargained, sold and released, and by these presents does grant, bargain, sell and release unto the said Grantee all of its interest in and to the following:

DESCRIPTION: All that certain piece, parcel or tract of land, situate, lying and being in the County of Laurens, State of South Carolina, being shown and designated as 15.62 acres, more or less, on plat prepared by C.L. Ward, P.L.S., dated February 10, 1996, entitled "Property Survey for Carolina Commercial Heat Treating, Inc." and recorded in the RMC Office for Laurens County in Plat Book A-256 at Page 7, reference to which plat is hereby craved for metes and bounds description thereof.

2012010103
DEED
RECORDING FEES $10.00
STATE TAX $4072.90
COUNTY TAX $1723.15
PRESENTED & RECORDED:
10-23-2012 01:48 PM

ASSESSOR'S TAX MAP REFERENCE: 904-08-01-001

DERIVATION: This being the same property heretofore conveyed to Grantor by Deed of CAROLINA COMMERCIAL HEAT TREATING, INC., a Nevada corporation, dated June 29, 2006, recorded on July 7, 2006 in the Office of the Clerk of Court for Laurens County South Carolina in Book 00789 at page 00203.

THIS CONVEYANCE IS MADE SUBJECT TO: All conditions, covenants, easements, restrictions and rights-of-way indicated by instruments, including plats, of record, and to all applicable zoning or other land use regulations or restrictions of any political subdivision in which the subject property is situate, as more particularly described on Schedule A attached hereto.

GRANTEE'S MAILING ADDRESS: For the purposes of this instrument, the Grantee's mailing address is:
c/o Bodycote International, Inc. Attn: Stephanie Edgar
12700 Park Central Drive, Suite 700,
Dallas, Texas 75251

Together with all and singular, the rights, members, hereditaments, and appurtenances to the said premises belonging or in anywise incident or appertaining.

10/24/2012	1088	233	Sally B Lancaster
DATE	BOOK	PAGE	AUDITOR

TO HAVE AND TO HOLD all and singular the premises before mentioned unto the Grantee, Grantee's successors and assigns forever.

And Grantor does hereby bind Grantor and Grantor's successors and assigns to warrant and forever defend all and singular the said premises unto the said Grantee, Grantee's successors and assigns, against Grantor and Grantor's successors and assigns whomsoever lawfully claiming, or to claim, the same or any part thereof

WITNESS the Grantor's hand and seal this 15th day of October, in the year of our Lord two thousand twelve and in the two hundred thirty sixth year of the Sovereignty and Independence of the United States of America.

SIGNED, SEALED, AND DELIVERED

IN THE PRESENCE OF:

Witness

Witness

GRANTOR:

CCHT LLC

By: Marc Baliotti
Its: Manager

STATE OF NEW YORK)
) ACKNOWLEDGMENT
COUNTY OF NEW YORK)

The foregoing instrument was acknowledged before me this 15th day of October 2012 by Marc Baliotti, Manager of CCHT LLC on behalf of the company.

Sworn to before me this 15th day of October 2012

Notary Public for the State of New York
My commission expires: 12/8/2012

PAUL R. WEBER
Notary Public, State of New York
No. 02WE6198115
Qualified in Queens County
Commission Expires Dec. 8, 2012

Schedule A

1. Taxes for the year 2012 and subsequent years not yet due and payable.

2. Easement or right-of-way for electric lines as shown on Plat prepared by C.L. Ward, P.L.S. , dated February 10, 1996, entitled "Property Survey for Carolina Commercial Heat Treating, Inc.", and recorded in the Office of the Register of Deeds for Laurens County in Plat Book A-256 at Page 7.

3. Easement or right-of-way for Hunts Bridge Road as shown on Plat prepared by C.L. Ward, P.L.S. , dated February 10, 1996, entitled "Property Survey for Carolina Commercial Heat Treating, Inc.", and recorded in the Office of the Register of Deeds for Laurens County in Plat Book A-256 at Page 7.

STATE OF SOUTH CAROLINA)
COUNTY OF LAURENS)

AFFIDAVIT FOR TAXABLE OR EXEMPT TRANSFERS

PERSONALLY appeared before me the undersigned, who being duly sworn, deposes and says:

1. I have read the information on this affidavit and I understand such information.

2. The property being transferred is located at 100 S. Main Street, City of Fountain Inn, bearing Laurens County Tax Map Number 904-08-01-001, and was transferred by deed of CCHT LLC, to Bodycote Thermal Processing, Inc., a Delaware corporation, by Limited Warranty Deed dated October 15, 2012.

3. Check one of the following: The deed is

(a) __X__ subject to the deed recording fee as a transfer for consideration paid or to be paid in money or money's worth.

(b) _____ subject to the deed recording fee as a transfer between a corporation, a partnership, or other entity and a stockholder, partner, or owner of the entity, or is a transfer to a trust or as a distribution to a trust beneficiary.

(c) _____ exempt from the deed recording fee because (See Information section of affidavit):

_____

(If exempt, please skip items 4 - 7, and go to item 8 of this affidavit.)
If exempt under exemption #14 as described in the Information section of this Affidavit, did the agent and principal relationship exist at the time of the original sale and was the purpose of this relationship to purchase the realty?
Check Yes _____ or No _____

4. Check one of the following if either item 3(a) or item 3(b) above has been checked (See Information section of this affidavit.):

(a) _____ The fee is computed on the consideration paid or to be paid in money or money's worth in the amount of _____.

(b) _____ The fee is computed on the fair market value of the realty which is

(c) __X__ The fee is computed on the fair market value of the realty as established for property tax purposes which is $1,566,333.33.

5. Check Yes_____ or No __X__ to the following: A lien or encumbrance existed on the land, tenement, or realty before the transfer and remained on the land, tenement, or realty after the transfer. If "Yes," the amount of the outstanding balance of this lien or encumbrance is:

6. The deed recording fee is computed as follows:

(a) Place the amount listed in item 4 above here: $ 1,566,333.33

(b) Place the amount listed in item 5 above here: -0-

703660088 42015804

(If no amount is listed, place zero here.)

(c) Subtract Line 6(b) from Line 6(a) and place result here: $ 1,566,333.33

7. The deed recording fee due is based on the amount listed on Line 6(c) above and the deed recording fee due is: $5,796.05.

8. As required by Code Section 12-24-70, I state that I am a responsible person who was connected with the transaction as Counsel for Grantee.

9. I understand that a person required to furnish this affidavit who wilfully furnishes a false or fraudulent affidavit is guilty of a misdemeanor and, upon conviction, must be fined not more than one thousand dollars or imprisoned not more than one year, or both.

OFFICIAL SEAL
JOYCE M. VOGT
Notary Public - State of Illinois
My Commission Expires Jan 08, 2014

Responsible Person Connected with the Transaction

Jonathan S. Baker
Print or Type Name Here

SWORN to before me this 17th day of October, 2012

Joyce M. Vogt
Notary Public for _____
My Commission Expires: _____

INFORMATION

Except as provided in this paragraph, the term "value" means "the consideration paid or to be paid in money or money's worth for the realty." Consideration paid or to be paid in money's worth includes, but is not limited to, other realty, personal property, stocks, bonds, partnership interest and other intangible property, the forgiveness or cancellation of a debt, the assumption of a debt, and the surrendering of any right. The fair market value of the consideration must be used in calculating the consideration paid in money's worth. Taxpayers may elect to use the fair market value of the realty being transferred in determining fair market value of the consideration. In the case of realty transferred between a corporation, a partnership, or other entity and a stockholder, partner, or owner of the entity, and in the case of realty transferred to a trust as a distribution to a trust beneficiary, "value" means the realty's fair market value. A deduction from value is allowed for the amount of any lien or encumbrance existing on the land, tenement, or realty before the transfer and remaining on the land, tenement or realty after the transfer. Taxpayers may elect to use the fair market value for property tax purposes in determining fair market value under the provisions of the law.

Exempted from the fee are deeds:

(1) transferring realty in which the value of the realty, as defined in Code Section 12-24-30, is equal to or less than one hundred dollars;

(2) transferring realty to the federal government or to a state, its agencies and departments, and its political subdivisions, including school districts;

(3) that are otherwise exempted under the laws and Constitution of this State or of the United States;

(4) transferring realty in which no gain or loss is recognized by reason of Section 1041 of the Internal Revenue Code as defined in Section 12-6-40(A);

(5) transferring realty in order to partition realty as long as no consideration is paid for the transfer other than the interests in the realty that are being exchanged in order to partition the realty,

(6) transferring an individual grave space at a cemetery owned by a cemetery company licensed under Chapter 55 of Title 39;

(7) that constitute a contract for the sale of timber to be cut;

(8) transferring realty to a corporation, a partnership, or a trust in order to become, or as, a stockholder, partner, or trust beneficiary of the entity provided no consideration is paid for the transfer other than stock in the corporation, interest in the partnership, beneficiary interest in the trust, or the increase in value in such stock or interest held by the grantor. However, the transfer of realty from a corporation, a partnership, or a trust to a stockholder, partner, or

trust beneficiary of the entity is subject to the fee even if the realty is transferred to another corporation, a partnership, or trust;

(9) transferring realty from a family partnership to a partner or from a family trust to a beneficiary, provided no consideration is paid for the transfer other than a reduction in the grantee's interest in the partnership or trust. A "family partnership" is a partnership whose partners are all members of the same family. A "family trust" is a trust, in which the beneficiaries are all members of the same family. The beneficiaries of a family trust may also include charitable entities. "Family" means the grantor and the grantor's spouse, parents, grandparents, sisters, brothers, children, stepchildren, grandchildren, and the spouses and lineal descendants of any the above. A "charitable entity" means an entity which may receive deductible contributions under Section 170 of the Internal Revenue Code as defined in Section 12-6-40(A);

(10) transferring realty in a statutory merger or consolidation from a constituent corporation to the continuing or new corporation;

(11) transferring realty in a merger or consolidation from a constituent partnership to the continuing or new partnership; and,

(12) that constitute a corrective deed or a quitclaim deed used to confirm title already vested in the grantee, provided that no consideration of any kind is paid or is to be paid under the corrective or quitclaim deed.

(13) transferring realty subject to a mortgage to the mortgagee whether by a deed in lieu of foreclosure executed by the mortgagor or deed executed pursuant to foreclosure proceedings.

(14) transferring realty from an agent to the agent's principal in which the realty was purchased with funds of the principal, provided that a notarized document is also filed with the deed that establishes the fact that the agent and principal relationship existed at the time of the original purchase as well as for the purpose of purchasing the realty.

(15) transferring title to facilities for transmitting electricity that is transferred, sold, or exchanged by electrical utilities, municipalities, electric cooperatives, or political subdivisions to a limited liability company which is subject to regulation under the Federal Power Act (16 U.S.C. Section 791(a)) and which is formed to operate or to take functional control of electric transmission assets as defined in the Federal Power Act.

Appendix B
DHEC Well Permit Application (Form 3736)

Monitoring Well Application

1. Proposed Location of Monitoring Well(s):

   Street Address: **100 Hunts Bridge Road**

   City (including Zip): **Fountain Inn 29644**

   County: **Laurens**

   Please attach Scaled Map or Plat

2. Well Owner's Information:

   Name (Last then First): **C/o Scherer, Richard**

   Company: **Gibraltar Industries Inc.**

   Complete Address: **50 Fountain Plaza, S 1700**
   Buffalo, NY 19202

   Telephone Number: **(716) 853-5100**

3. Property Owner's Information:

   ☐ Check if same as Well Owner

   Name (Last then First):

   Company: **Bodycote Thermal Processing**

   Address: **100 Hunts Bridge Road**
   Fountain, Inn SC 29203

   Telephone Number: **(864) 601-1173**

4. Proposed Drilling Date: **09/12/2016**

5. Intended Purpose of Well(s):

   Pre-Purchase ☐

   Investigation ☑

   NOTE: If this request is for an existing DHEC project, please enter the Program area and ID number below.

   Program Area: **Voluntary Cleanup Program**
   Project or Site ID #: **VCC 14-6226-RP**

6. Proposed number of monitoring wells: **7**

7. Proposed parameters to be analyzed (check all that apply), please specify analytical method beside check box:

VOCs	☑	SW 8260
BTEX	☐	
MtBE	☐	
Naphthalene	☐	
PAHs	☐	
Metals	☑	SW 6020
Nitrates	☐	
Base, Neutral & Acid Ex.	☐	
Pesticides/Herbicides	☐	
Phenols	☐	
Radionuclides	☐	
PCBs	☐	
Other (specify below)	☑	SW 8270

SVOCs

8. Proposed construction details (complete and attach proposed monitoring well schematics):

Refer to Work Plan for details on the monitoring well construction.

South Carolina Department of Health and Environmental Control (SCDHEC) summary of standards for monitoring well construction (per South Carolina Well Standards and Regulations R. 61-71)

Approval and License Requirements

Prior Department approval is required for the installation or abandonment of all monitoring wells including direct push, geoprobe or other temporary type monitoring wells. The attached monitoring well approval document should be completed, submitted and approved prior to construction of any monitoring well. A monitoring well is any well used to obtain water samples for water quality analyses or to measure groundwater levels. There are no fees for approvals. All monitoring wells must be drilled by a driller that is registered in South Carolina with the Board of Certification of the Environmental Systems Operators. If any of the information on the application including the proposed drilling date, well construction details or well placement changes, the Department (i.e. project manager issuing the well approval) must be notified 24 hours prior to well construction.

Location

Due to the nature and purpose of a monitoring well, the depth and location requirements in respect to surface water bodies, potential contamination sources, etc., are variable, and shall be approved on a case by case basis by the Department.

Construction and Material

Casing should be of sufficient strength to withstand normal forces encountered during and after well installation and be composed of material so as to minimally affect water quality analyses. Casing should have a sufficient diameter to allow for efficient sample collection (i.e., to provide access for sampling equipment). The diameter of the drilled hole needs to be large enough on all sides (1.5 inches of annular space) to allow forced injection of grout through a tremie pipe. All monitoring wells should have a cement pad or aggregate reinforced concrete at the ground surface which extends at least six inches beyond the bore hole diameter and six inches below ground surface to prevent infiltration between the surface casing and the bore hole. All monitoring wells should be grouted from the top of the bentonite seal to the surface with a neat cement, high solids bentonite or neat cement, bentonite mixture approved by the Department. A hydrated bentonite seal with a minimum thickness of 12 inches is to be placed above the filter pack to prevent infiltration of grout if the well has a filter pack. The monitoring well intake or screen design should minimize the amount of formational materials entering the well. The gravel
pack should be utilized opposite the well screen as appropriate so that parameters analyses will be minimally affected. All monitoring wells should have a locking cap or other security device to prevent damage and/or vandalism. Any monitoring well which is destroyed, rendered unusable or is abandoned should be reported to the Department and be properly abandoned, revitalized or replaced as appropriate or required by permit or regulation.

Development

Monitoring wells shall be properly developed. Development shall include the removal of
formation cuttings and drilling fluids from the well bore hole. Development shall be complete when the well produces water typical of the aquifer being monitored.

Reporting Requirements

A monitor well record form (1903) or equivalent to include the following should be completed and submitted to the Department within 30 days after completion of the monitoring wells:

Name and address of facility/owner;
Surveyed or global positioning system location of monitor well(s) on a scaled map or plat;
Driller and certification number;
Date drilled;
Driller's or Geologist's log;
Total depth;
Screened interval;
Diameter and construction details;
Depth to water table with date and time measured;
Surveyed elevation of measuring point with respect to established benchmark;
Monitoring well approval number issued by the Department.

Additionally, the groundwater and soil (if taken) analytical results should be submitted to the Department within 30 days of receipt from the laboratory.

Abandonment

All monitoring wells shall be properly abandoned, when deemed appropriate by the Department. Any well that acts as a source of contamination shall be repaired or permanently abandoned immediately after receipt of notice from the Department. Abandonment shall be by forced injection of grout or pouring through a tremie pipe starting at the bottom of the well and proceeding to the surface in one continuous operation. The well shall be filled with either neat cement, bentonite-cement, or 20% high solids sodium bentonite grout, from the bottom of the well to the land surface.

* This summary of standards for monitoring well construction may not include a listing of all information necessary to obtain an approval to install monitoring wells. Final approval of monitoring well installation will be dependant upon the regulatory requirements for the Department program area for which the monitoring wells are to be installed.

* Some areas of the Department may require a detailed justification of the placement of monitoring wells and the depth of monitoring well screened zones prior to granting installation approval.

Appendix C
Laboratory Certifications

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

June 29, 2016

DANA B TILL
AES INC
3080 PRESIDENTIAL DR
DORAVILLE, GEORGIA 30340-3906

Re: Laboratory Certification Renewal
Laboratory ID# 98016
Certificate # 98016003
Certifying Authority Florida

Dear Ms. Till:

The administrative review of the renewal documentation submitted by your laboratory for the above certificate has been completed. Even though a new certificate has not been issued, your laboratory is still considered certified pending the technical review of the Standard Operating Procedures, Quality Assurance Manual, and the on-site evaluation report. Upon completion of the technical review, you will be notified of any required corrective actions. This letter can be used as verification of your continued certification in South Carolina for the above certificate. Questions concerning your certification status can be addressed by contacting me at 803-896-0976 or by e-mail at berryjc@dhec.sc.gov.

Sincerely,

James C Berry
Office of Environmental Laboratory Certification
Bureau of Environmental Health Services

cc: Carol F. Smith, Director
Office of Environmental Laboratory Certification

Register on our website at www.scdhec.gov/labcert to receive e-mail updates for the Laboratory Certification Program. Subscribing is easy and you'll automatically receive new posts to our website.

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

Environmental Laboratory Certification Program

In accordance with the provisions of Regulation 61-81, entitled "State Environmental Laboratory Certification Regulations"

AES INC
3080 PRESIDENTIAL DR
ATLANTA, GEORGIA 30340-3906

is hereby certified to perform analyses as documented on the attached parameter list(s). This certification does not guarantee validity of data generated, but indicates the laboratory's adherence to prescribed methodology, quality control, records keeping, and reporting procedures. This certificate is the property of S.C. DHEC and must be surrendered upon demand. This certificate is non-transferable and is valid only for the parameters and methodology listed on the attached parameter list(s).

Laboratory Director: DANA B TILL
Certifying Authority: FL
Date of Issue: December 16, 2015
Date of Expiration: June 30, 2016
Certificate Number: 98016003

Director
Office of Environmental Laboratory Certification

CR-010021 2/11

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

AES INC (Laboratory ID 98016)
Laboratory Director: DANA B TILL
Certifying Authority: FL
Certificate Number: 98016003

Date of Issue: December 16, 2015
Expiration Date: June 30, 2016

CLEAN WATER ACT

INORGANIC - DEMAND

BIOCHEMICAL OXYGEN DEMAND(BOD)	SM 5210 B-2011	5 DAY DO DEPLETION
CARBONACEOUS BOD	SM 5210 B-2011	5 DAY DO DEPLETION
CHEMICAL OXYGEN DEMAND (COD)	EPA 410.4 (1993)	SPECTROPHOTOMETRIC, MANUAL OR AUTOMATED
DISSOLVED OXYGEN	SM 4500-O G-2011	ELECTRODE
TOTAL ORGANIC CARBON (TOC)	SM 5310 B-2011	HIGH TEMPERATURE COMBUSTION (TOC)

INORGANIC - MINERAL

ALKALINITY	EPA 310.2 (1974)	COLORIMETRIC, AUTOMATED, METHYL ORANGE
ALKALINITY	SM 2320 B-2011	TITRIMETRIC
CHLORIDE	EPA 300.0 (1993)	ION CHROMATOGRAPHY
FLUORIDE	EPA 300.0 (1993)	ION CHROMATOGRAPHY
HARDNESS, TOTAL (AS CACO3)	SM 2340 B-2011	CALCULATIONS
HYDROGEN-ION CONC. (PH)	SM 4500-H B-2011	ELECTROMETRIC MEASUREMENT
SPECIFIC CONDUCTANCE	EPA 120.1 (1982)	WHEATSTONE BRIDGE
SULFATE	EPA 300.0 (1993)	ION CHROMATOGRAPHY

INORGANIC - MISCELLANEOUS

BROMIDE	EPA 300.0 (1993)	ION CHROMATOGRAPHY
CYANIDE	SM 4500-CN C-2011	MANUAL DISTILLATION WITH MGCL2
CYANIDE	SM 4500-CN E-2011	SPECTROPHOTOMETRIC (MANUAL)
OIL & GREASE	EPA 1664B (2010)	OIL & GREASE - HEM/SGT-HEM
PHENOLICS, TOTAL RECOVERABLE	EPA 420.1 (1978)	MANUAL DISTILLATION WITH COLORIMETRIC(4AAP)
PHENOLICS, TOTAL RECOVERABLE	EPA 420.4 (1993)	AUTOMATED COLORIMETRIC (4AAP)
SULFIDE	SM 4500-S2 C-2011	SAMPLE PRETREATMENT OR CONCENTRATION
SULFIDE	SM 4500-S2 F-2011	TITRIMETRIC (IODINE)
TURBIDITY	EPA 180.1 (1993)	NEPHELOMETRIC

INORGANIC - NUTRIENT

AMMONIA-NITROGEN	EPA 350.1 (1993)	MANUAL DISTILLATION WITH AUTOMATED PHENATE
KJELDAHL-NITROGEN	EPA 351.2 (1993)	SEMI-AUTOMATED BLOCK DIGESTER COLORIMETRIC
NITRATE-NITRITE (N02&N03)	EPA 300.0 (1993)	ION CHROMATOGRAPHY
NITRATE-NITRITE (N02&N03)	EPA 353.2 (1993)	CADMIUM REDUCTION (AUTOMATED)
NITRATE-NITROGEN	EPA 300.0 (1993)	ION CHROMATOGRAPHY
NITRITE-NITROGEN	EPA 300.0 (1993)	ION CHROMATOGRAPHY
ORTHOPHOSPHATE	EPA 300.0 (1993)	ION CHROMATOGRAPHY
ORTHOPHOSPHATE	EPA 365.1 (1993)	ASCORBIC ACID (AUTOMATED)
PHOSPHORUS	EPA 365.1 (1993)	ASCORBIC ACID (AUTOMATED)

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INORGANIC - RESIDUE

RESIDUE, FILTERABLE (TDS)	SM 2540 C-2011	GRAVIMETRIC (180)
RESIDUE, NONFILTERABLE (TSS)	SM 2540 D-2011	GRAVIMETRIC 103-105
RESIDUE, SETTLEABLE (SS)	SM 2540 F-2011	VOLUMETRIC (IMHOFF CONE) OR GRAVIMETRIC
RESIDUE, TOTAL (TS)	SM 2540 B-2011	GRAVIMETRIC 103-105

INORGANIC - TRACE METAL

ALUMINUM	EPA 200.7 (1994)	ICP/AES
ALUMINUM	EPA 200.8 (1994)	ICP/MS
ANTIMONY	EPA 200.7 (1994)	ICP/AES
ANTIMONY	EPA 200.8 (1994)	ICP/MS
ARSENIC	EPA 200.7 (1994)	ICP/AES
ARSENIC	EPA 200.8 (1994)	ICP/MS
BARIUM	EPA 200.7 (1994)	ICP/AES
BARIUM	EPA 200.8 (1994)	ICP/MS
BERYLLIUM	EPA 200.7 (1994)	ICP/AES
BERYLLIUM	EPA 200.8 (1994)	ICP/MS
BORON	EPA 200.7 (1994)	ICP/AES
CADMIUM	EPA 200.7 (1994)	ICP/AES
CADMIUM	EPA 200.8 (1994)	ICP/MS
CALCIUM	EPA 200.7 (1994)	ICP/AES
CALCIUM	EPA 200.8 (1994)	ICP/MS
CHROMIUM	EPA 200.7 (1994)	ICP/AES
CHROMIUM	EPA 200.8 (1994)	ICP/MS
CHROMIUM, HEXAVALENT	SM 3500-CR B-2011	COLORIMETRIC (DIPHYENYLCARBAZIDE)
COBALT	EPA 200.7 (1994)	ICP/AES
COBALT	EPA 200.8 (1994)	ICP/MS
COPPER	EPA 200.7 (1994)	ICP/AES
COPPER	EPA 200.8 (1994)	ICP/MS
IRON	EPA 200.7 (1994)	ICP/AES
IRON	EPA 200.8 (1994)	ICP/MS
LEAD	EPA 200.7 (1994)	ICP/AES
LEAD	EPA 200.8 (1994)	ICP/MS
MAGNESIUM	EPA 200.7 (1994)	ICP/AES
MAGNESIUM	EPA 200.8 (1994)	ICP/MS
MANGANESE	EPA 200.7 (1994)	ICP/AES
MANGANESE	EPA 200.8 (1994)	ICP/MS
MERCURY	EPA 245.1 (1994)	COLD VAPOR (MANUAL)
MOLYBDENUM	EPA 200.7 (1994)	ICP/AES
MOLYBDENUM	EPA 200.8 (1994)	ICP/MS

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INORGANIC - TRACE METAL

NICKEL	EPA 200.7 (1994)	ICP/AES
NICKEL	EPA 200.8 (1994)	ICP/MS
POTASSIUM	EPA 200.7 (1994)	ICP/AES
POTASSIUM	EPA 200.8 (1994)	ICP/MS
SELENIUM	EPA 200.7 (1994)	ICP/AES
SELENIUM	EPA 200.8 (1994)	ICP/MS
SILVER	EPA 200.7 (1994)	ICP/AES
SILVER	EPA 200.8 (1994)	ICP/MS
SODIUM	EPA 200.7 (1994)	ICP/AES
SODIUM	EPA 200.8 (1994)	ICP/MS
THALLIUM	EPA 200.7 (1994)	ICP/AES
THALLIUM	EPA 200.8 (1994)	ICP/MS
TIN	EPA 200.7 (1994)	ICP/AES
TIN	EPA 200.8 (1994)	ICP/MS
TITANIUM	EPA 200.7 (1994)	ICP/AES
TITANIUM	EPA 200.8 (1994)	ICP/MS
VANADIUM	EPA 200.7 (1994)	ICP/AES
VANADIUM	EPA 200.8 (1994)	ICP/MS
ZINC	EPA 200.7 (1994)	ICP/AES
ZINC	EPA 200.8 (1994)	ICP/MS

PCBS AND PESTICIDES

ORGANOCHLORINE PEST. & PCBS - GC/ECD	EPA 608

SEMI-VOLATILES

BASE/NEUTRALS AND ACIDS - GC/MS	EPA 625
POLY. AROM. HYDROC. (PAHS)-GC/FID OR	EPA 610

VOLATILES (VOCS)

PURGEABLES - GC/MS	EPA 624

SOLID & HAZARDOUS WASTES

HERBICIDES

CHLORINATED HERBICIDES BY GC	EPA 8151A

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SOLID & HAZARDOUS WASTES

INORGANIC - DEMAND

TOTAL ORGANIC CARBON (TOC)	EPA 9060A	CARBONACEOUS ANALYZER

INORGANIC - HAZARDOUS WASTE CHARACTERISTICS

IGNITABILITY	EPA 1010A	PENSKY-MARTENS CLOSED-CUP
PAINT FILTER LIQUIDS TEST	EPA 9095B	FILTRATION
TCLP - BOTTLE EXTRACTION	EPA 1311	TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TCLP - ZERO HEADSPACE	EPA 1311	TOXICITY CHARACTERISTIC LEACHING PROCEDURE

INORGANIC - MINERAL

CHLORIDE	EPA 9056A	ION CHROMATOGRAPHY
FLUORIDE	EPA 9056A	ION CHROMATOGRAPHY
HYDROGEN-ION CONC. (PH)	EPA 9040C	ELECTROMETRIC
HYDROGEN-ION CONC. (PH) (SOIL & WASTE)	EPA 9045D	SOIL AND WASTE
SPECIFIC CONDUCTANCE	EPA 9050A	WHEATSTONE BRIDGE
SULFATE	EPA 9056A	ION CHROMATOGRAPHY

INORGANIC - MISCELLANEOUS

BROMIDE	EPA 9056A	ION CHROMATOGRAPHY
CYANIDE	EPA 9014	TITRIMETRIC & MANUAL SPECTROPHOTOMETRIC
CYANIDE DISTILLATION	EPA 9010C	DISTILLATION FOR TOTAL & AMENABLE CYANIDE
OIL & GREASE	EPA 9070A	HEM/SGT-HEM
OIL & GREASE	EPA 9071B	HEM/SGT-HEM
PHENOLICS, TOTAL RECOVERABLE	EPA 9065	SPECTROPHOTOMETRIC (MANUAL 4AAP WITH DISTILLATION)
SULFIDE	EPA 9034	TRITRIMETRIC FOR ACID-SOL. & ACID-INSOL. SULFIDES
SULFIDE DISTILLATION	EPA 9030B	DISTILLATION-ACID SOLUBLE & ACID INSOLUBLE SULFIDE

INORGANIC - NUTRIENT

NITRATE-NITROGEN	EPA 9056A	ION CHROMATOGRAPHY
NITRITE-NITROGEN	EPA 9056A	ION CHROMATOGRAPHY
ORTHOPHOSPHATE	EPA 9056A	ION CHROMATOGRAPHY

INORGANIC - TRACE METAL

ALUMINUM	EPA 6010C	ICP/AES
ALUMINUM	EPA 6020A	ICP/MS
ANTIMONY	EPA 6010C	ICP/AES

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SOLID & HAZARDOUS WASTES

INORGANIC - TRACE METAL

ANTIMONY	EPA 6020A	ICP/MS
ARSENIC	EPA 6010C	ICP/AES
ARSENIC	EPA 6020A	ICP/MS
BARIUM	EPA 6010C	ICP/AES
BARIUM	EPA 6020A	ICP/MS
BERYLLIUM	EPA 6010C	ICP/AES
BERYLLIUM	EPA 6020A	ICP/MS
CADMIUM	EPA 6010C	ICP/AES
CADMIUM	EPA 6020A	ICP/MS
CALCIUM	EPA 6010C	ICP/AES
CALCIUM	EPA 6020A	ICP/MS
CHROMIUM	EPA 6010C	ICP/AES
CHROMIUM	EPA 6020A	ICP/MS
CHROMIUM, HEXAVALENT	EPA 7196A	COLORIMETRIC
COBALT	EPA 6010C	ICP/AES
COBALT	EPA 6020A	ICP/MS
COPPER	EPA 6010C	ICP/AES
COPPER	EPA 6020A	ICP/MS
IRON	EPA 6010C	ICP/AES
IRON	EPA 6020A	ICP/MS
LEAD	EPA 6010C	ICP/AES
LEAD	EPA 6020A	ICP/MS
MAGNESIUM	EPA 6010C	ICP/AES
MAGNESIUM	EPA 6020A	ICP/MS
MANGANESE	EPA 6010C	ICP/AES
MANGANESE	EPA 6020A	ICP/MS
MERCURY	EPA 7470A	COLD VAPOR TECHNIQUE LIQUID
MERCURY	EPA 7471B	COLD VAPOR TECHNIQUE SOLID
METALS DIGESTION	EPA 3005A	AQUEOUS ACID DIGESTION TOTAL OR DISSOLVED METALS FLAA OR ICP
METALS DIGESTION	EPA 3010A	AQUEOUS ACID DIGESTION TOTAL METALS FLAA OR ICP
METALS DIGESTION	EPA 3050B	SOLID ACID DIGESTION
METALS DIGESTION	EPA 3060A	ALKALINE DIGESTION HEX CHROM
MOLYBDENUM	EPA 6010C	ICP/AES
NICKEL	EPA 6010C	ICP/AES
NICKEL	EPA 6020A	ICP/MS
POTASSIUM	EPA 6010C	ICP/AES
POTASSIUM	EPA 6020A	ICP/MS
SELENIUM	EPA 6010C	ICP/AES
SELENIUM	EPA 6020A	ICP/MS
SILVER	EPA 6010C	ICP/AES

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SOLID & HAZARDOUS WASTES

INORGANIC - TRACE METAL

SILVER	EPA 6020A	ICP/MS
SODIUM	EPA 6010C	ICP/AES
SODIUM	EPA 6020A	ICP/MS
THALLIUM	EPA 6010C	ICP/AES
THALLIUM	EPA 6020A	ICP/MS
TIN	EPA 6010C	ICP/AES
TITANIUM	EPA 6010C	ICP/AES
VANADIUM	EPA 6010C	ICP/AES
VANADIUM	EPA 6020A	ICP/MS
ZINC	EPA 6010C	ICP/AES
ZINC	EPA 6020A	ICP/MS

PCBS AND PESTICIDES

ORGANOCHLORINE PESTICIDES BY GC	EPA 8081B	EPA 3550C
ORGANOCHLORINE PESTICIDES BY GC	EPA 8081B	EPA 3580A
ORGANOCHLORINE PESTICIDES BY GC	EPA 8081B	EPA 3510C
POLYCHLORINATED BIPHENYLS BY GC	EPA 8082A	EPA 3580A
POLYCHLORINATED BIPHENYLS BY GC	EPA 8082A	EPA 3550C
POLYCHLORINATED BIPHENYLS BY GC	EPA 8082A	EPA 3510C

SEMI-VOLATILES

CARBONYL COMPOUNDS BY HPLC	EPA 8315A	
EDB & DBCP BY MICROEXTRACTION AND GC	EPA 8011	
POLYNUCLEAR AROM. HYDROCARBONS BY HPLC	EPA 8310	EPA 3580A
POLYNUCLEAR AROM. HYDROCARBONS BY HPLC	EPA 8310	EPA 3550C
POLYNUCLEAR AROM. HYDROCARBONS BY HPLC	EPA 8310	EPA 3520C
SEMIVOLATILE ORGANICS BY GC/MS	EPA 8270D	EPA 3550C
SEMIVOLATILE ORGANICS BY GC/MS	EPA 8270D	EPA 3580A
SEMIVOLATILE ORGANICS BY GC/MS	EPA 8270D	EPA 3520C
SEMIVOLATILE ORGANICS BY GC/MS	EPA 8270D	EPA 3510C
SEMIVOLATILE ORGANICS BY GC/MS (SIM)	EPA 8270D (SIM)	EPA 3550C
SEMIVOLATILE ORGANICS BY GC/MS (SIM)	EPA 8270D (SIM)	EPA 3510C
TPH - DIESEL RANGE ORGANICS (DRO)	EPA 8015C (DRO)	EPA 3550C
TPH - DIESEL RANGE ORGANICS (DRO)	EPA 8015C (DRO)	EPA 3510C
TPH - DIESEL RANGE ORGANICS (DRO)	EPA 8015C (DRO)	EPA 3580A

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SOLID & HAZARDOUS WASTES

VOLATILES (VOCS)

OXYGENATE VOLATILE ORGANICS BY GC/MS	EPA 8260B-OXY	EPA 5030B
TPH - GASOLINE RANGE ORGANICS (GRO)	EPA 8015C (GRO)	EPA 3585
TPH - GASOLINE RANGE ORGANICS (GRO)	EPA 8015C (GRO)	EPA 5030B
VOLATILE ORGANICS BY GC/MS	EPA 8260B	EPA 3585
VOLATILE ORGANICS BY GC/MS	EPA 8260B	EPA 5035
VOLATILE ORGANICS BY GC/MS	EPA 8260B	EPA 5030B
VOLATILE ORGANICS BY GC/MS	EPA 8260B (SIM)	EPA 5030B

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----------PCBS AND PESTICIDES----------

EPA 608

4,4'-DDD
4,4'-DDE
4,4'-DDT
ALDRIN
ALPHA-BHC
BETA-BHC
CHLORDANE
DELTA-BHC
DIELDRIN
ENDOSULFAN I
ENDOSULFAN II
ENDOSULFAN SULFATE
ENDRIN
ENDRIN ALDEHYDE
GAMMA-BHC (LINDANE)
HEPTACHLOR
HEPTACHLOR EPOXIDE
METHOXYCHLOR
PCB-1016 (AROCLOR-1016)
PCB-1221 (AROCLOR-1221)
PCB-1232 (AROCLOR-1232)
PCB-1242 (AROCLOR-1242)
PCB-1248 (AROCLOR-1248)
PCB-1254 (AROCLOR-1254)
PCB-1260 (AROCLOR-1260)
TOXAPHENE

----------SEMI-VOLATILES----------

EPA 610

ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
CHRYSENE
DIBENZO(A,H)ANTHRACENE
FLUORANTHENE
FLUORENE
INDENO(1,2,3-CD)PYRENE
NAPHTHALENE
PHENANTHRENE
PYRENE

EPA 625

1,2,4-TRICHLOROBENZENE
2,4,6-TRICHLOROPHENOL
2,4-DICHLOROPHENOL
2,4-DIMETHYLPHENOL
2,4-DINITROPHENOL
2,4-DINITROTOLUENE (2,4-DNT)
2,6-DINITROTOLUENE (2,6-DNT)
2-CHLORONAPHTHALENE
2-CHLOROPHENOL
2-METHYL-4,6-DINITROPHENOL
2-NITROPHENOL
3,3-DICHLOROBENZIDINE
4-BROMOPHENYLPHENYL ETHER
4-CHLORO-3-METHYLPHENOL
4-CHLOROPHENYL PHENYL ETHER
4-NITROPHENOL
ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZIDINE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
BENZYL BUTYL PHTHALATE
BIS(2-CHLORO-1-METHYLETHYL)ETHER
BIS(2-CHLOROETHOXY)METHANE
BIS(2-CHLOROETHYL)ETHER
BIS(2-ETHYLHEXYL)PHTHALATE
CHRYSENE
DI-N-BUTYL PHTHALATE
DI-N-OCTYL PHTHALATE
DIBENZO(A,H)ANTHRACENE
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
FLUORANTHENE
FLUORENE
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROCYCLOPENTADIENE
HEXACHLOROETHANE
INDENO(1,2,3-CD)PYRENE
ISOPHORONE
N-NITROSODI-N-PROPYLAMINE
N-NITROSODIMETHYLAMINE
N-NITROSODIPHENYLAMINE
NAPHTHALENE
NITROBENZENE (NB)
PENTACHLOROPHENOL
PHENANTHRENE
PHENOL
PYRENE

----------VOLATILES (VOCS)----------

EPA 624

1,1,1-TRICHLOROETHANE
1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLOROETHANE
1,1-DICHLOROETHANE
1,1-DICHLOROETHENE
1,2-DICHLOROBENZENE
1,2-DICHLOROETHANE
1,2-DICHLOROPROPANE
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
2-CHLOROETHYLVINYL ETHER
ACROLEIN
ACRYLONITRILE
BENZENE
BROMODICHLOROMETHANE
BROMOFORM
BROMOMETHANE
CARBON TETRACHLORIDE
CHLOROBENZENE
CHLORODIBROMOMETHANE
CHLOROETHANE
CHLOROFORM
CHLOROMETHANE
CIS-1,3-DICHLOROPROPENE
ETHYLBENZENE
METHYLENE CHLORIDE
TETRACHLOROETHENE
TOLUENE
TRANS-1,2-DICHLOROETHENE
TRANS-1,3-DICHLOROPROPENE
TRICHLOROETHENE
TRICHLOROFLUOROMETHANE
VINYL CHLORIDE
XYLENE, TOTAL

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SOLID & HAZARDOUS WASTES

----------HERBICIDES----------

EPA 8151A

2,4,5-T
2,4,5-TP (SILVEX)
2,4-D
2,4-DB
DALAPON
DICAMBA
DICHLORPROP
MCPA
MCPP

---------PCBS AND PESTICIDES---------

EPA 8081B
EPA 3510C

4,4'-DDD
4,4'-DDE
4,4'-DDT
ALDRIN
ALPHA-BHC
ALPHA-CHLORDANE
BETA-BHC
CHLORDANE
DELTA-BHC
DIELDRIN
ENDOSULFAN I
ENDOSULFAN II
ENDOSULFAN SULFATE
ENDRIN
ENDRIN ALDEHYDE
ENDRIN KETONE
GAMMA-BHC (LINDANE)
GAMMA-CHLORDANE
HEPTACHLOR
HEPTACHLOR EPOXIDE
METHOXYCHLOR
TOXAPHENE

EPA 8081B
EPA 3550C

4,4'-DDD
4,4'-DDE
4,4'-DDT

EPA 8081B
EPA 3550C

ALDRIN
ALPHA-BHC
ALPHA-CHLORDANE
BETA-BHC
CHLORDANE
DELTA-BHC
DIELDRIN
ENDOSULFAN I
ENDOSULFAN II
ENDOSULFAN SULFATE
ENDRIN
ENDRIN ALDEHYDE
ENDRIN KETONE
GAMMA-BHC (LINDANE)
GAMMA-CHLORDANE
HEPTACHLOR
HEPTACHLOR EPOXIDE
METHOXYCHLOR
TOXAPHENE

EPA 8081B
EPA 3580A

4,4'-DDD
4,4'-DDE
4,4'-DDT
ALDRIN
ALPHA-BHC
ALPHA-CHLORDANE
BETA-BHC
CHLORDANE
DELTA-BHC
DIELDRIN
ENDOSULFAN I
ENDOSULFAN II
ENDOSULFAN SULFATE
ENDRIN
ENDRIN ALDEHYDE
ENDRIN KETONE
GAMMA-BHC (LINDANE)
GAMMA-CHLORDANE
HEPTACHLOR
HEPTACHLOR EPOXIDE
METHOXYCHLOR
TOXAPHENE

EPA 8082A
EPA 3510C

PCB-1016 (AROCLOR-1016)
PCB-1221 (AROCLOR-1221)
PCB-1232 (AROCLOR-1232)
PCB-1242 (AROCLOR-1242)
PCB-1248 (AROCLOR-1248)
PCB-1254 (AROCLOR-1254)
PCB-1260 (AROCLOR-1260)

EPA 8082A
EPA 3550C

PCB-1016 (AROCLOR-1016)
PCB-1221 (AROCLOR-1221)
PCB-1232 (AROCLOR-1232)
PCB-1242 (AROCLOR-1242)
PCB-1248 (AROCLOR-1248)
PCB-1254 (AROCLOR-1254)
PCB-1260 (AROCLOR-1260)

EPA 8082A
EPA 3580A

PCB-1016 (AROCLOR-1016)
PCB-1221 (AROCLOR-1221)
PCB-1232 (AROCLOR-1232)
PCB-1242 (AROCLOR-1242)
PCB-1248 (AROCLOR-1248)
PCB-1254 (AROCLOR-1254)
PCB-1260 (AROCLOR-1260)

----------SEMI-VOLATILES----------

EPA 8011

1,2-DIBROMO-3-CHLOROPROPANE(DBCP)
1,2-DIBROMOETHANE (EDB)

EPA 8015C (DRO)
EPA 3510C

TPH - HIGH BOIL. PT. (DIESEL)

EPA 8015C (DRO)
EPA 3550C

TPH - HIGH BOIL. PT. (DIESEL)

EPA 8015C (DRO)
EPA 3580A

TPH - HIGH BOIL. PT. (DIESEL)

EPA 8270D
EPA 3510C

1,1'-BIPHENYL
1,2,4-TRICHLOROBENZENE
1,2-DICHLOROBENZENE
1,2-DIPHENYLHYDRAZINE
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
1-CHLORONAPHTHALENE
1-NAPHTHYLAMINE
2,4,5-TRICHLOROPHENOL
2,4,6-TRICHLOROPHENOL
2,4-DICHLOROPHENOL
2,4-DIMETHYLPHENOL
2,4-DINITROPHENOL
2,4-DINITROTOLUENE (2,4-DNT)
2,6-DICHLOROPHENOL
2,6-DINITROTOLUENE (2,6-DNT)
2-CHLORONAPHTHALENE
2-CHLOROPHENOL
2-METHYLNAPHTHALENE
2-METHYLPHENOL
2-NAPHTHYLAMINE
2-NITROANILINE
2-NITROPHENOL
3,3-DICHLOROBENZIDINE
3-NITROANILINE
4,6-DINITRO-2-METHYLPHENOL
4-AMINOBIPHENYL
4-BROMOPHENYLPHENYL ETHER
4-CHLORO-3-METHYLPHENOL
4-CHLOROANILINE
4-CHLOROPHENYL PHENYL ETHER
4-METHYLPHENOL
4-NITROANILINE
4-NITROPHENOL
A,A-DIMETHYLPHENETHYLAMINE

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
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AES INC (Laboratory ID 98016)
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Certificate Number: 98016003

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SOLID & HAZARDOUS WASTES

----------SEMI-VOLATILES----------

EPA 8270D
EPA 3510C

ACENAPHTHENE
ACENAPHTHYLENE
ACETOPHENONE
ANILINE
ANTHRACENE
ATRAZINE
BENZALDEHYDE
BENZIDINE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
BENZOIC ACID
BENZYL ALCOHOL
BIS(2-CHLORO-1-METHYLETHYL)ETHER
BIS(2-CHLOROETHOXY)METHANE
BIS(2-CHLOROETHYL)ETHER
BIS(2-ETHYLHEXYL)PHTHALATE
BUTYL BENZYL PHTHALATE
CARBAZOLE
CHRYSENE
DI-N-BUTYL PHTHALATE
DI-N-OCTYL PHTHALATE
DIBENZ0(A,H)ANTHRACENE
DIBENZOFURAN
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
DIMETHYLAMINOAZOBENZENE
DIPHENYLAMINE
ETHYL METHANESULFONATE
FLUORANTHENE
FLUORENE
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROCYCLOPENTADIENE
HEXACHLOROETHANE
INDENO(1,2,3-CD)PYRENE
ISOPHORONE
METHYL METHANESULFONATE
N-NITROSODI-N-BUTYLAMINE
N-NITROSODI-N-PROPYLAMINE
N-NITROSODIMETHYLAMINE

EPA 8270D
EPA 3510C

N-NITROSODIPHENYLAMINE
N-NITROSOPIPERIDINE
NAPHTHALENE
NITROBENZENE (NB)
PENTACHLOROBENZENE
PENTACHLORONITROBENZENE
PENTACHLOROPHENOL
PHENACETIN
PHENANTHRENE
PHENOL
PRONAMIDE
PYRENE
PYRIDINE

EPA 8270D
EPA 3520C

1,1'-BIPHENYL
1,2,4-TRICHLOROBENZENE
1,2-DICHLOROBENZENE
1,2-DIPHENYLHYDRAZINE
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
1-CHLORONAPHTHALENE
2,4,5-TRICHLOROPHENOL
2,4,6-TRICHLOROPHENOL
2,4-DICHLOROPHENOL
2,4-DIMETHYLPHENOL
2,4-DINITROPHENOL
2,4-DINITROTOLUENE (2,4-DNT)
2,6-DICHLOROPHENOL
2,6-DINITROTOLUENE (2,6-DNT)
2-CHLORONAPHTHALENE
2-CHLOROPHENOL
2-METHYLNAPHTHALENE
2-METHYLPHENOL
2-NITROANILINE
2-NITROPHENOL
3,3-DICHLOROBENZIDINE
3-NITROANILINE
4,6-DINITRO-2-METHYLPHENOL
4-BROMOPHENYLPHENYL ETHER
4-CHLORO-3-METHYLPHENOL
4-CHLOROANILINE
4-CHLOROPHENYL PHENYL ETHER

EPA 8270D
EPA 3520C

4-METHYLPHENOL
4-NITROANILINE
4-NITROPHENOL
ACENAPHTHENE
ACENAPHTHYLENE
ACETOPHENONE
ANTHRACENE
ATRAZINE
BENZALDEHYDE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
BENZYL ALCOHOL
BIS(2-CHLORO-1-METHYLETHYL)ETHER
BIS(2-CHLOROETHOXY)METHANE
BIS(2-CHLOROETHYL)ETHER
BIS(2-ETHYLHEXYL)PHTHALATE
BUTYL BENZYL PHTHALATE
CAPROLACTAM
CARBAZOLE
CHRYSENE
DI-N-BUTYL PHTHALATE
DI-N-OCTYL PHTHALATE
DIBENZ0(A,H)ANTHRACENE
DIBENZOFURAN
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
DIPHENYLAMINE
ETHYL METHANESULFONATE
FLUORANTHENE
FLUORENE
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROCYCLOPENTADIENE
HEXACHLOROETHANE
INDENO(1,2,3-CD)PYRENE
ISOPHORONE
METHYL METHANESULFONATE
N-NITROSODI-N-PROPYLAMINE
N-NITROSODIMETHYLAMINE
N-NITROSODIPHENYLAMINE
N-NITROSOPIPERIDINE
NAPHTHALENE

EPA 8270D
EPA 3520C

NITROBENZENE (NB)
PENTACHLOROBENZENE
PENTACHLORONITROBENZENE
PENTACHLOROPHENOL
PHENACETIN
PHENANTHRENE
PHENOL
PRONAMIDE
PYRENE

EPA 8270D
EPA 3550C

1,1'-BIPHENYL
1,2,4-TRICHLOROBENZENE
1,2-DICHLOROBENZENE
1,2-DIPHENYLHYDRAZINE
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
1-CHLORONAPHTHALENE
1-NAPHTHYLAMINE
2,4,5-TRICHLOROPHENOL
2,4,6-TRICHLOROPHENOL
2,4-DICHLOROPHENOL
2,4-DIMETHYLPHENOL
2,4-DINITROPHENOL
2,4-DINITROTOLUENE (2,4-DNT)
2,6-DICHLOROPHENOL
2,6-DINITROTOLUENE (2,6-DNT)
2-CHLORONAPHTHALENE
2-CHLOROPHENOL
2-METHYLNAPHTHALENE
2-METHYLPHENOL
2-NAPHTHYLAMINE
2-NITROANILINE
2-NITROPHENOL
3,3-DICHLOROBENZIDINE
3-NITROANILINE
4,6-DINITRO-2-METHYLPHENOL
4-AMINOBIPHENYL
4-BROMOPHENYLPHENYL ETHER
4-CHLORO-3-METHYLPHENOL
4-CHLOROPHENYL PHENYL ETHER
4-METHYLPHENOL
4-NITROANILINE

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SOLID & HAZARDOUS WASTES

----------SEMI-VOLATILES----------

EPA 8270D
EPA 3550C

4-NITROPHENOL
A,A-DIMETHYLPHENETHYLAMINE
ACENAPHTHENE
ACENAPHTHYLENE
ACETOPHENONE
ANILINE
ANTHRACENE
ATRAZINE
BENZALDEHYDE
BENZIDINE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
BENZOIC ACID
BENZYL ALCOHOL
BIS(2-CHLORO-1-METHYLETHYL)ETHER
BIS(2-CHLOROETHOXY)METHANE
BIS(2-CHLOROETHYL)ETHER
BIS(2-ETHYLHEXYL)PHTHALATE
BUTYL BENZYL PHTHALATE
CAPROLACTAM
CARBAZOLE
CHRYSENE
DI-N-BUTYL PHTHALATE
DI-N-OCTYL PHTHALATE
DIBENZ0(A,H)ANTHRACENE
DIBENZOFURAN
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
DIMETHYLAMINOAZOBENZENE
DIPHENYLAMINE
ETHYL METHANESULFONATE
FLUORANTHENE
FLUORENE
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROCYCLOPENTADIENE
HEXACHLOROETHANE
INDENO(1,2,3-CD)PYRENE
ISOPHORONE
METHYL METHANESULFONATE

EPA 8270D
EPA 3550C

N-NITROSODI-N-BUTYLAMINE
N-NITROSODI-N-PROPYLAMINE
N-NITROSODIMETHYLAMINE
N-NITROSODIPHENYLAMINE
N-NITROSOPIPERIDINE
NAPHTHALENE
NITROBENZENE (NB)
PENTACHLOROBENZENE
PENTACHLORONITROBENZENE
PENTACHLOROPHENOL
PHENACETIN
PHENANTHRENE
PHENOL
PRONAMIDE
PYRENE

EPA 8270D
EPA 3580A

1,2,4-TRICHLOROBENZENE
1,2-DICHLOROBENZENE
1,2-DIPHENYLHYDRAZINE
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
1-CHLORONAPHTHALENE
1-NAPHTHYLAMINE
2,4,5-TRICHLOROPHENOL
2,4,6-TRICHLOROPHENOL
2,4-DICHLOROPHENOL
2,4-DIMETHYLPHENOL
2,4-DINITROPHENOL
2,4-DINITROTOLUENE (2,4-DNT)
2,6-DICHLOROPHENOL
2,6-DINITROTOLUENE (2,6-DNT)
2-CHLORONAPHTHALENE
2-CHLOROPHENOL
2-METHYLNAPHTHALENE
2-METHYLPHENOL
2-NAPHTHYLAMINE
2-NITROANILINE
2-NITROPHENOL
3,3-DICHLOROBENZIDINE
3-NITROANILINE
4,6-DINITRO-2-METHYLPHENOL
4-AMINOBIPHENYL

EPA 8270D
EPA 3580A

4-BROMOPHENYLPHENYL ETHER
4-CHLORO-3-METHYLPHENOL
4-CHLOROPHENYL PHENYL ETHER
4-METHYLPHENOL
4-NITROANILINE
4-NITROPHENOL
A,A-DIMETHYLPHENETHYLAMINE
ACENAPHTHENE
ACENAPHTHYLENE
ACETOPHENONE
ANILINE
ANTHRACENE
BENZIDINE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
BENZOIC ACID
BENZYL ALCOHOL
BIS(2-CHLORO-1-METHYLETHYL)ETHER
BIS(2-CHLOROETHOXY)METHANE
BIS(2-CHLOROETHYL)ETHER
BIS(2-ETHYLHEXYL)PHTHALATE
BUTYL BENZYL PHTHALATE
CHRYSENE
DI-N-BUTYL PHTHALATE
DI-N-OCTYL PHTHALATE
DIBENZ0(A,H)ANTHRACENE
DIBENZOFURAN
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
DIMETHYLAMINOAZOBENZENE
DIPHENYLAMINE
ETHYL METHANESULFONATE
FLUORANTHENE
FLUORENE
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROCYCLOPENTADIENE
HEXACHLOROETHANE
INDENO(1,2,3-CD)PYRENE
ISOPHORONE
METHYL METHANESULFONATE
N-NITROSODI-N-BUTYLAMINE

EPA 8270D
EPA 3580A

N-NITROSODI-N-PROPYLAMINE
N-NITROSODIMETHYLAMINE
N-NITROSODIPHENYLAMINE
N-NITROSOPIPERIDINE
NAPHTHALENE
NITROBENZENE (NB)
PENTACHLOROBENZENE
PENTACHLORONITROBENZENE
PENTACHLOROPHENOL
PHENACETIN
PHENANTHRENE
PHENOL
PRONAMIDE
PYRENE

EPA 8270D (SIM)
EPA 3510C

2-METHYLNAPHTHALENE
ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
CHRYSENE
DIBENZ0(A,H)ANTHRACENE
FLUORANTHENE
FLUORENE
INDENO(1,2,3-CD)PYRENE
NAPHTHALENE
PHENANTHRENE
PYRENE

EPA 8270D (SIM)
EPA 3550C

2-METHYLNAPHTHALENE
ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE

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SOLID & HAZARDOUS WASTES

----------SEMI-VOLATILES----------

EPA 8270D (SIM)
EPA 3550C

BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
CHRYSENE
DIBENZ0(A,H)ANTHRACENE
FLUORANTHENE
FLUORENE
INDENO(1,2,3-CD)PYRENE
NAPHTHALENE
PHENANTHRENE
PYRENE

EPA 8310
EPA 3520C

ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
CHRYSENE
DIBENZ0(A,H)ANTHRACENE
FLUORANTHENE
FLUORENE
INDENO(1,2,3-CD)PYRENE
NAPHTHALENE
PHENANTHRENE
PYRENE

EPA 8310
EPA 3550C

ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE

EPA 8310
EPA 3550C

CHRYSENE
DIBENZ0(A,H)ANTHRACENE
FLUORANTHENE
FLUORENE
INDENO(1,2,3-CD)PYRENE
NAPHTHALENE
PHENANTHRENE
PYRENE

EPA 8310
EPA 3580A

ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
CHRYSENE
DIBENZ0(A,H)ANTHRACENE
FLUORANTHENE
FLUORENE
INDENO(1,2,3-CD)PYRENE
NAPHTHALENE
PHENANTHRENE
PYRENE

EPA 8315A

FORMALDEHYDE

----------VOLATILES (VOCS)----------

EPA 8015C (GRO)
EPA 3585

TPH - LOW BOIL. PT. (GAS.)

EPA 8015C (GRO)
EPA 5030B

TPH - LOW BOIL. PT. (GAS.)

EPA 8260B
EPA 3585

1,1,1,2-TETRACHLOROETHANE
1,1,1-TRICHLOROETHANE
1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLOROETHANE
1,1-DICHLOROETHANE
1,1-DICHLOROETHENE
1,1-DICHLOROPROPENE
1,2,3-TRICHLOROBENZENE
1,2,3-TRICHLOROPROPANE
1,2,4-TRICHLOROBENZENE
1,2,4-TRIMETHYLBENZENE
1,2-DIBROMO-3-CHLOROPROPANE(DBCP)
1,2-DIBROMOETHANE (EDB)
1,2-DICHLOROBENZENE
1,2-DICHLOROETHANE
1,2-DICHLOROPROPANE
1,3,5-TRIMETHYLBENZENE
1,3-DICHLOROBENZENE
1,3-DICHLOROPROPANE
1,4-DICHLOROBENZENE
2,2-DICHLOROPROPANE
2-CHLOROETHYLVINYL ETHER
2-CHLOROTOLUENE
2-HEXANONE
4-CHLOROTOLUENE
4-METHYL-2-PENTANONE
ACETONE
ACROLEIN
ACRYLONITRILE
BENZENE
BROMOBENZENE
BROMOCHLOROMETHANE
BROMODICHLOROMETHANE
BROMOFORM
BROMOMETHANE
CARBON DISULFIDE
CARBON TETRACHLORIDE
CHLOROBENZENE
CHLORODIBROMOMETHANE
CHLOROETHANE
CHLOROFORM
CHLOROMETHANE
CIS-1,2-DICHLOROETHENE
CIS-1,3-DICHLOROPROPENE
DIBROMOMETHANE

EPA 8260B
EPA 3585

DICHLORODIFLUOROMETHANE
ETHYLBENZENE
HEXACHLOROBUTADIENE
IODOMETHANE
ISOPROPYLBENZENE
METHYL ETHYL KETONE (MEK)
METHYLENE CHLORIDE
N-BUTYLBENZENE
N-PROPYLBENZENE
NAPHTHALENE
P-ISOPROPYLTOLUENE
SEC-BUTYLBENZENE
STYRENE
TERT-BUTYLBENZENE
TETRACHLOROETHENE
TOLUENE
TRANS-1,2-DICHLOROETHENE
TRANS-1,3-DICHLOROPROPENE
TRANS-1,4-DICHLORO-2-BUTENE
TRICHLOROETHENE
TRICHLOROFLUOROMETHANE
VINYL ACETATE
VINYL CHLORIDE
XYLENE, TOTAL

EPA 8260B
EPA 5030B

1,1,1,2-TETRACHLOROETHANE
1,1,1-TRICHLOROETHANE
1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
1,1,2-TRICHLOROETHANE
1,1-DICHLOROETHANE
1,1-DICHLOROETHENE
1,1-DICHLOROPROPENE
1,2,3-TRICHLOROBENZENE
1,2,3-TRICHLOROPROPANE
1,2,4-TRICHLOROBENZENE
1,2,4-TRIMETHYLBENZENE
1,2-DIBROMO-3-CHLOROPROPANE(DBCP)
1,2-DIBROMOETHANE (EDB)
1,2-DICHLOROBENZENE
1,2-DICHLOROETHANE
1,2-DICHLOROPROPANE

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SOLID & HAZARDOUS WASTES

----------VOLATILES (VOCS)----------

EPA 8260B
EPA 5030B

1,3,5-TRIMETHYLBENZENE
1,3-DICHLOROBENZENE
1,3-DICHLOROPROPANE
1,4-DICHLOROBENZENE
1,4-DIOXANE
2,2-DICHLOROPROPANE
2-CHLOROETHYLVINYL ETHER
2-CHLOROTOLUENE
2-HEXANONE
4-CHLOROTOLUENE
4-METHYL-2-PENTANONE
ACETONE
ACETONITRILE
ACROLEIN
ACRYLONITRILE
ALLYL CHLORIDE
BENZENE
BROMOBENZENE
BROMOCHLOROMETHANE
BROMODICHLOROMETHANE
BROMOFORM
BROMOMETHANE
CARBON DISULFIDE
CARBON TETRACHLORIDE
CHLOROBENZENE
CHLORODIBROMOMETHANE
CHLOROETHANE
CHLOROFORM
CHLOROMETHANE
CHLOROPRENE
CIS-1,2-DICHLOROETHENE
CIS-1,3-DICHLOROPROPENE
CYCLOHEXANE
DIBROMOMETHANE
DICHLORODIFLUOROMETHANE
ETHYL METHACRYLATE
ETHYLBENZENE
HEXACHLOROBUTADIENE
IODOMETHANE
ISOBUTYL ALCOHOL
ISOPROPYLBENZENE
METHACRYLONITRILE
METHYL ACETATE

EPA 8260B
EPA 5030B

METHYL ETHYL KETONE (MEK)
METHYL METHACRYLATE
METHYL TERT BUTYL ETHER (MTBE)
METHYLCYCLOHEXANE
METHYLENE CHLORIDE
N-BUTYLBENZENE
N-PROPYLBENZENE
NAPHTHALENE
P-ISOPROPYLTOLUENE
PENTACHLOROETHANE
PROPIONITRILE
SEC-BUTYLBENZENE
STYRENE
TERT-BUTYLBENZENE
TETRACHLOROETHENE
TOLUENE
TRANS-1,2-DICHLOROETHENE
TRANS-1,3-DICHLOROPROPENE
TRANS-1,4-DICHLORO-2-BUTENE
TRICHLOROETHENE
TRICHLOROFLUOROMETHANE
VINYL ACETATE
VINYL CHLORIDE
XYLENE, TOTAL

EPA 8260B
EPA 5035

1,1,1,2-TETRACHLOROETHANE
1,1,1-TRICHLOROETHANE
1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
1,1,2-TRICHLOROETHANE
1,1-DICHLOROETHANE
1,1-DICHLOROETHENE
1,1-DICHLOROPROPENE
1,2,3-TRICHLOROBENZENE
1,2,3-TRICHLOROPROPANE
1,2,4-TRICHLOROBENZENE
1,2,4-TRIMETHYLBENZENE
1,2-DIBROMO-3-CHLOROPROPANE(DBCP)
1,2-DIBROMOETHANE (EDB)
1,2-DICHLOROBENZENE
1,2-DICHLOROETHANE
1,2-DICHLOROPROPANE

EPA 8260B
EPA 5035

1,3,5-TRIMETHYLBENZENE
1,3-DICHLOROBENZENE
1,3-DICHLOROPROPANE
1,4-DICHLOROBENZENE
1,4-DIOXANE
2,2-DICHLOROPROPANE
2-CHLOROTOLUENE
2-HEXANONE
4-CHLOROTOLUENE
4-METHYL-2-PENTANONE
ACETONE
ACETONITRILE
ACROLEIN
ACRYLONITRILE
ALLYL CHLORIDE
BENZENE
BROMOBENZENE
BROMOCHLOROMETHANE
BROMODICHLOROMETHANE
BROMOFORM
BROMOMETHANE
CARBON DISULFIDE
CARBON TETRACHLORIDE
CHLOROBENZENE
CHLORODIBROMOMETHANE
CHLOROETHANE
CHLOROFORM
CHLOROMETHANE
CHLOROPRENE
CIS-1,2-DICHLOROETHENE
CIS-1,3-DICHLOROPROPENE
CYCLOHEXANE
DIBROMOMETHANE
DICHLORODIFLUOROMETHANE
ETHYL METHACRYLATE
ETHYLBENZENE
HEXACHLOROBUTADIENE
IODOMETHANE
ISOBUTYL ALCOHOL
ISOPROPYLBENZENE
METHACRYLONITRILE
METHYL ACETATE
METHYL ETHYL KETONE (MEK)
METHYL METHACRYLATE
METHYL TERT BUTYL ETHER (MTBE)

EPA 8260B
EPA 5035

METHYLCYCLOHEXANE
METHYLENE CHLORIDE
N-BUTYLBENZENE
N-PROPYLBENZENE
NAPHTHALENE
P-ISOPROPYLTOLUENE
PENTACHLOROETHANE
PROPIONITRILE
SEC-BUTYLBENZENE
STYRENE
TERT-BUTYLBENZENE
TETRACHLOROETHENE
TOLUENE
TRANS-1,2-DICHLOROETHENE
TRANS-1,3-DICHLOROPROPENE
TRANS-1,4-DICHLORO-2-BUTENE
TRICHLOROETHENE
TRICHLOROFLUOROMETHANE
VINYL ACETATE
VINYL CHLORIDE
XYLENE, TOTAL

EPA 8260B (SIM)
EPA 5030B

1,4-DIOXANE

EPA 8260B-OXY
EPA 5030B

3,3-DIMETHYL-1-BUTANOL
DIISOPROPYL ETHER
ETHANOL
ETHYL TERT BUTYL ETHER
T-AMYL ALCOHOL
T-AMYL METHYL ETHER
T-BUTYL ALCOHOL
T-BUTYL FORMATE

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