HERCULES

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November 19, 2012

VIA ELECTRONIC DELIVERY

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Mr. Chris Sanders
Chief, Environmental Compliance and Enforcement Division
Mississippi Department of Environmental Quality
515 Amite Street
Jackson, Mississippi 39201

Subject: Submission of Final Constituents of Potential Concern Technical Report
Hercules Incorporated, Hattiesburg Facility
Hattiesburg, Forrest County, Mississippi
USEPA ID No. MSD 008 182 081
Docket No. RCRA-04-2011-4251

Dear Mr. Lamberth, Ms. Knight, and Mr. Sanders:

On November 1, 2012, Hercules Incorporated (Hercules; a wholly owned subsidiary of Ashland, Inc.) received comments from the U.S. Environmental Protection Agency (USEPA) and Mississippi Department of Environmental Quality (MDEQ) on the draft Constituents of Potential Concern Technical Report, dated October 5, 2012. These comments indicated that 1) the Phase II Implementation should begin no later than November 5, 2012, 2) the quality and timeliness of the analytical data is a priority for EPA and MDEQ, and that all detection limits be up equal or less than the most up to date RSL's or COPC and that all sampling and analysis procedures be in compliance with approved EPA protocols, and 3) requested several specific additions and changes to the document. As EPA/MDEQ is aware, Hercules started the Phase II field work on November 5, 2012 and expects to complete by November 20, 2012. Regarding the second item, Hercules/ARCADIS contacted its laboratories to work to improve the submittal schedule and detection limits. However, we remind EPA that we (or our laboratories) do not have control over elevated detection limits due to matrix interferences and secondly as EPA is aware we have had difficulties with uploading data to EPA's DART System. Finally, we have made the requested changes to the document which is enclosed herein.

As specified in Paragraph 95 of the Order, the following certification is made:

I certify that the information contained in and accompanying this submission is true, accurate, and complete. As to those identified portions of this submission for which I cannot personally verify the truth and accuracy, I certify as the facility official having supervisory responsibility for the person who, acting upon my direct instructions, made the verification, that this information is true, accurate, and complete.

Signature: 

Name: Keith C. Silverman

Title: Vice President Environmental Health & Safety and Product Regulatory, Ashland Inc.

If there are any questions concerning this submittal, please contact Hercules Project Coordinator Mr. Timothy Hassett at (302) 995-3456.

Sincerely,

Keith C. Silverman
Vice President
Environmental Health & Safety and Product
Regulatory, Ashland Inc.

KCS/cep

cc: Meredith C. Anderson – USEPA Region 4, Atlanta, GA
Javier E. Garcia – USEPA Region 4, Atlanta, GA
Timothy Hassett – Ashland/ Hercules, Wilmington, DE
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cc: Willie McKercher – MDEQ, Jackson, MS
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Constituents of Potential Concern Technical Report

USEPA RCRA 3013(a)
Administrative Order
EPA ID No. MSD 008 182 081
Docket No. RCRA-04-2011-4251
MDEQ AI No. 2022

Hattiesburg, Mississippi

16 November 2012

ARCADIS

John Ellis, P.G.
Principal Scientist/Hydrogeologist

James J. Reid
Principal in Charge

Constituents of Potential Concern
Technical Report

USEPA RCRA 3013(a)
Administrative Order
Hattiesburg, Mississippi

Prepared for:
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Our Ref.:
LA002999.0012.302B1

Date:
16 November 2012

ARCADIS

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1. Introduction

Hercules Incorporated (Hercules) is currently conducting investigative activities at Hercules' Hattiesburg, Mississippi, site (referred to as the "Site" or the "former Hercules Plant" herein) in order to address an Administrative Order (the AO) issued by Region 4 of the U.S. Environmental Protection Agency (USEPA). The AO was issued on May 10, 2011. As part of these investigative activities, Hercules submits Work Plans to USEPA for approval prior to conducting work. A Revised Phase II Sampling and Analysis Work Plan (Revised Phase II Work Plan) was submitted to USEPA on July 23, 2012. A conditional approval of the Work Plan was granted by USEPA in a letter dated August 6, 2012. Within the letter, USEPA did not approve the preliminary constituents of concern list proposed in the document, but requested the preparation of a technical memorandum presenting the process for screening data obtained during Phase I activities and selection of constituents of potential concern (COPC) based on the screening process. This report provides a description of the evaluation used to screen the existing data and proposes a COPC list for future investigative activities at the Site.

2. Background

2.1 Site Location

The Hercules Site is located on approximately 200 acres of land north of West Seventh Street in Hattiesburg, Forrest County, Mississippi (Figure 1). The Site is located in Township 4 North, Range 13 West, within Sections 4 and 5 just north of Hattiesburg, Mississippi. The geographic coordinates of the front gate of the Site are 31° 20' 20" North latitude and 89° 18' 25" West longitude. The physical address of the Site is 613 West Seventh Street, Hattiesburg, Mississippi.

The Site is bordered to the north by Highway 42, beyond which is the Illinois-Central & Gulf Railroad, as well as various residential and commercial properties. The southern property boundary is bordered by West Seventh Street and by Roseland Park cemetery and Zeon Chemicals, L.P., to the south-southwest. Across from these locations are residential areas. The eastern and western boundaries are bordered by residential and commercial areas. The Site is zoned for industrial use and this zoning category is unlikely to change in the future due to the Restricted Used Agreed Order (RUAO), size of the property, and available infrastructure. A 2011 aerial photograph depicting the Site and its immediate surroundings is provided as Figure 2.

2.2 Previous Investigations

Various investigations have been conducted at the Hercules Site since the early 1980s. The work has included geophysical investigations and sampling of soil, groundwater, surface water, and stream sediment for analysis of various constituents, including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, cyanide, Dioxathion, and Dioxenethion. The results of previous investigations are discussed in reports, which have been submitted to or developed by the Mississippi Department of Environmental Quality (MDEQ) and/or USEPA. Previous sample locations conducted during these investigations are shown on Figure 3. A listing of these reports is provided below. Summaries of these activities can be found in the Phase I and Phase II Work Plans:

- *Preliminary Assessment,* Mississippi Bureau of Pollution Control, December 1989.
- *Site Inspection Report*, Black & Veatch Waste Science and Technology Corp., April 1993 (commissioned by USEPA).
- *Work Plan for Well Installation,* Bonner Analytical Testing Company (BATCO), June 1997; *Installation, Sampling, and Analysis Report,* BATCO, December 1997; and *Quarterly Monitor Well Sampling Event Reports, BATCO, June 1998 th*rough *October 1998.*
- *Site Investigation Work Plan, Eco-Systems, Inc. (Ec*o-Systems), February 1999.
- *Interim Groundwater Monitoring Report,* Eco-Systems, January 2003; and *Site Investigation Report, Eco-Systems,* April 2003.
- *Work Plan for Supplemental Site Investigation,* Eco-Systems, June 2003; and *Supplemental Site Investigation Report, Eco-Sy*stems, November 2003.
- *Hattiesburg, Mississippi, Investigations, MDEQ*, April 2004.
- *Remedial Action Evaluation,* Eco-Systems, July 2004; *and Corrective Action Plan Revision 01,* GES*, January* 2005.
- *Memorandum, Sludge Sample Analyses, Hattiesburg, Mississippi,* Eco-Systems, October 2008.

- *Groundwater Assessment Report*, Eco-Systems, November 2009.

- *Sludge Characterization and Bench Scale Treatability Work Plan*, ARCADIS U.S., Inc. (ARCADIS), March 2010; *Sludge Characterization and Bench Scale Treatability Report, A*RCADIS, August 2010; *and Response to Sludge Characterization and Bench Scale Treatability Report*, ARCADIS, January 2011.

- USEPA Sludge Pit Sampling (2010).

2.3 U.S. Environmental Protection Agency Administrative Order

USEPA issued the AO pursuant to Section 3013(a) of the Resource Conservation and Recovery Act (RCRA), 42 United States Code §6934(a), and is specific to the Site. As discussed during a June 9, 2011, meeting with USEPA, MDEQ, and Hercules representatives, components of the Phase II activities were addressed in the Revised Phase I Sampling and Analysis Work Plan (Revised Phase I Work Plan; ARCADIS 2011). Specifically, a portion of the groundwater assessment identified as part of Phase II was to be conducted under Phase I as required to properly assess the potential migration of Site-related constituents to off-site properties. The Revised Phase I Work Plan was approved by USEPA on December 9, 2011. The initial field portions of Phase I activities were implemented in March and April 2012. The locations where Phase I sampling were collected are shown on Figures 4 and 5. Investigative activities associated with specific portions of the Phase I effort are still ongoing. Concurrent with these activities, Hercules prepared a Phase II Work Plan, which was submitted to USEPA on September 30, 2011. On March 19, 2012, USEPA issued a disapproval of the September 30, 2011, Phase II Work Plan. Hercules subsequently submitted a DRAFT Revised Phase II Work Plan on May 4, 2012, and received tentative approval of the Work Plan on July 12, 2012. A Revised Phase II Work Plan was submitted to USEPA on July 23, 2012. USEPA issued a conditional approval of the Phase II Work Plan on August 6, 2012. Within this conditional approval, further evaluation of the COPC for future work was requested.

3. Constituents of Potential Concern Evaluation

To evaluate the COPCs to be used for subsequent phases of investigation, the historic operations and past investigation results were reviewed. Additionally, two data sets were screened: the July 2011 sampling of selected on-site monitor wells and the initial Phase I sampling.

3.1 Data Sets

In July 2011, Hercules collected samples from selected on-site monitor wells and analyzed for the Appendix IX list during the course of routine semiannual groundwater sampling per the RUAO. The selected wells were biased to locations where constituents were previously detected during RUAO sampling events. This effort was conducted to provide data that would be used to establish a COPC list as requested in USEPA comments to the Phase I Sampling and Analysis Work Plan. The Appendix IX analyte list was used during the July 2011 sampling event to assess current conditions relative to this comprehensive analyte list. The laboratory reports from this sampling event are included in the Revised Phase I Work Plan.

In March and April 2012, Hercules collected soil, groundwater, sediment, surface water, soil gas, and ambient air samples in accordance with the approved Revised Phase I Work Plan. As specified in the project Quality Assurance Project Plan that was submitted with the Revised Phase I Work Plan, approximately 10 percent of the samples of each matrix were validated. In general, the data were acceptable for use.

Summaries of these data are provided in Appendix A (Tables A-1 through A-12). Copies of the analytical data reports and the data validation reports will be provided in the investigation summary report, which will be submitted at a later date.

3.2 Data Screening Methodology

An evaluation and screening of the July 2011 groundwater data set and the Phase I data set were conducted to identify the Site-related constituents on which to focus future assessments. The constituents detected during the previous investigations were compared to the MDEQ Target Remediation Goals (TRGs) and USEPA Regional Screening Levels (RSLs) (May 2012). Additionally, based on meetings with USEPA, ecological screening standards were evaluated for the shallow soil data (samples obtained from 0 to 2 feet below land surface [ft bls]), surface water data, and sediment data. For shallow groundwater samples and surface water samples, a conservative assumption that these waters would be used as a potable water supply was made for the purpose of this COPC evaluation, even though this is unlikely to occur due to the restricted covenant put in place as part of the RUAO and the low yield of the first water-bearing zone.

The following summarizes the process used to evaluate the constituents detected in the previous data. The data were compared to the appropriate media-specific screening levels. The detected concentrations were compared to the TRGs and RSLs.

After comparing constituent detections to the appropriate standards, the frequency of detection for each constituent in each media was determined. Tables 1 through 8 summarize these evaluations. To further refine the COPC evaluation, Table 9 through Table 20 summarize the maximum detected concentrations that exceed an applicable standard and those constituents detected that had no standard available. The sample locations for each of the maximum detected concentrations are also summarized on these tables. A cursory evaluation of the sample location was also completed to determine if the constituent was potentially Site related. A more comprehensive geospatial evaluation of the data will be completed at a later date.

3.3 Data Screening Results

Below is a discussion of the data screening by media and constituent class. All data are screened against the applicable human health standards, while only the surface water, sediment, and shallow soil data are screened against both human health and ecological screening criteria.

Criteria used in the human health evaluation include:

- MDEQ Tier 1 Restricted and Unrestricted TRGs (MDEQ 2002);
- USEPA Residential and Industrial RSLs (USEPA 2012a); and
- USEPA National Recommended Water Quality Criteria (NRWQC) (USEPA 2012b).

Criteria used in the ecological evaluation include:

- Mississippi Water Quality Criteria for Chronic Fresh Water (MDEQ 2004);
- USEPA Revised Region 4 Ecological Screening Values (USEPA 2001);
- USEPA Region 5 Ecological Screening Values (USEPA 2003); and
- USEPA Region 4 Correspondence (USEPA 2012c).

3.3.1 Groundwater

Table 1 provides an occurrence summary for all constituents analyzed during the Phase I temporary well sampling. The occurrence summary of constituents detected

during the July 2011 groundwater sampling event is provided in Table 2. Table 9 summarizes constituents from the Phase I activities that exceed a screening standard. Table 10 summarizes constituents from the July 2011 monitor well sampling activities that exceed a screening standard.

3.3.1.1 Volatile Organic Compounds

As noted on Table 9, eleven VOCs were detected in temporary well samples at concentrations exceeding their screening standards: 1,2-dibromoethane; 1,2-dichloroethane; 1,4-dioxane (1,4-dioxane was also detected in the SVOC analyses); benzene; carbon tetrachloride; chlorobenzene; chloroform; ethylbenzene; naphthalene; trichloroethene; and xylenes.

As noted in Table 10, eight VOCs were detected in monitor well samples at concentrations exceeding their screening standards: 4-methyl-2-pentanone; benzene; carbon tetrachloride; chlorobenzene; chloroform; ethylbenzene; methylene chloride; and toluene.

Because there are exceedances of selected VOCs in these data sets as well as detections of other VOCs below applicable standards, the Appendix IX VOCs list will be utilized for the Phase II groundwater sampling activities.

3.3.1.2 Semivolatile Organic Compounds

As noted in Table 9, ten SVOCs were detected at concentrations exceeding their screening standards or were detected and have no screening level: 1,1'-biphenyl; 1,4-dioxane; 2-methylnaphthalene; 2-nitrophenol; bis(2-ethylhexyl)phthalate; dibenzo(a,h)anthracene; diphenyl ether (no standard); indeno(1,2,3-cd)pyrene; naphthalene; and pentachlorophenol.

As noted in Table 10, three SVOCs were detected at concentrations exceeding their screening standards or were detected and have no screening level: 1,1'-biphenyl; 1,4-dioxane; and o,o,o-triethylphosphorothioate (no standard).

Because there are exceedances of selected SVOCs in these data sets as well as detections of other SVOCs below applicable standards, the Appendix IX SVOCs list will be utilized for the Phase II groundwater sampling activities.

3.3.1.3 Pesticides

No pesticides were detected in groundwater during the Phase I activities (Table 9). However, several constituents have Method Detection Limits (MDLs) above applicable MDEQ TRGs and USEPA RSLs.

Two pesticides, alpha-BHC and gamma-BHC (Lindane), were detected during the July 2011 routine groundwater sampling at concentrations above a screening level (Table 10).

Because the alpha-BHC and gamma-BHC were not manufactured at the facility and their presence is most likely associated with a registered Federal Insecticide, Fungicide, and Rodenticide Act use, pesticides are not considered site-related constituents. However, pesticides will be analyzed for 20 percent of the groundwater samples collected during implementation of Phase II sampling activities to account for elevated MDLs.

3.3.1.4 Polychlorinated Biphenyls

No PCBs were detected in groundwater during the Phase I activities nor during the July 2011 groundwater sampling event (Tables 9 and 10). However, several constituents have MDLs above applicable MDEQ TRGs and USEPA RSLs.

PCBs are not considered to be site-related constituents based on previous groundwater data. However, PCBs will be analyzed for 20 percent of the groundwater samples collected during implementation of Phase II sampling activities to account for elevated MDLs.

3.3.1.5 Herbicides

No herbicides were detected in groundwater above a screening level during the Phase I activities nor during the July 2011 groundwater sampling event (Tables 9 and 10).

Herbicides will be excluded from the groundwater analyte list for the Phase II activities.

3.3.1.6 Dioxathion/Dioxenethion

Cis-dioxathion was detected in one groundwater sample during the Phase I sampling activities; however, this detection was below the MDEQ TRG (Table 1). There is no

USEPA RSL for this compound. Dioxenethion was detected in one groundwater sample. There is no screening level for this compound; however, if the dioxathion standard is used for comparison, the detection is below the standards.

No samples were collected for dioxathion or dioxenethion during the July 2011 groundwater sampling event.

Dioxathion and dioxenethion will be excluded from the groundwater analyte list for the Phase II activities. However, sampling for dioxathion and dioxenethion will be conducted in accordance with the terms of the RUAO.

3.3.1.7 Dioxins/Furans

No dioxins or furans were detected in groundwater during the Phase I activities nor during the July 2011 groundwater sampling event (Tables 9 and 10). However, several constituents have MDLs above applicable MDEQ TRGs and USEPA RSLs.

Dioxins/furans are not considered to be site-related constituents based on previous groundwater data. However, dioxins and furans will be analyzed for 20 percent of the groundwater samples collected during the implementation of Phase II sampling activities to account for elevated MDLs.

3.3.1.8 Inorganics

As noted in Table 9, five metals were detected at concentrations exceeding their screening standards: arsenic; cobalt; lead; thallium; and vanadium.

As noted in Table 10, one metal was detected at a concentration exceeding its screening standard: arsenic.

Because there are exceedances of comparison criteria for selected metals in these data sets as well as detections of other metals below applicable standards, the Appendix IX metals list will be utilized for the groundwater Phase II activities.

There are detections of sulfide in groundwater; however, this is a general chemistry parameter with no screening level. Because sulfide will not be a risk driver at the Site, sulfide will be excluded from the groundwater analyte list for Phase II activities.

3.3.2 Soil

Table 3 provides an occurrence summary for all constituents analyzed during the Phase I soil sampling and compared to human health screening criteria. Table 4 is an occurrence summary for soil samples compared to ecological screening standards. Only samples obtained from 0 to 2 ft bls were used in the ecological screening. Table 11 summarizes constituents from the Phase I activities that exceed a human health screening standard. Table 12 summarizes constituents that exceed an ecological screening standard.

3.3.2.1 Volatile Organic Compounds

As noted in Table 11, three VOCs were detected at concentrations exceeding their human health screening standards or no standard was available: carbon tetrachloride; chloroform; and iodomethane (no standard). The frequency of detections for these compounds ranged from 3 percent to 5 percent.

As noted in Table 12, three VOCs were detected at concentrations exceeding their ecological screening standards or no standard was available: carbon tetrachloride; chloroform; and iodomethane (no standard). The frequency of detections for these compounds was 5 percent.

Because there are exceedances of selected VOCs in this data set as well as detections of other VOCs below applicable standards, the Appendix IX VOCs list will be utilized for the Phase II soil sampling activities.

3.3.2.2 Semivolatile Organic Compounds

As noted in Table 11, three SVOCs were detected at concentrations exceeding their human health screening standards or no standard was available: benzo(a)pyrene; benzo(b)fluoranthene; and diphenyl ether (no standard).

As noted in Table 12, five SVOCs were detected at concentrations exceeding their ecological screening standards or no standard was available: benzo(a)pyrene; bis(2-ethylhexyl)phthalate; diphenyl ether (no standard); fluoranthene; and pyrene.

Because there are exceedances of selected SVOCs in this data set as well as detections of other SVOCs below applicable standards, the Appendix IX SVOC list will be utilized for the Phase II soil sampling activities.

3.3.2.3 Pesticides

As noted in Table 11, three pesticides were detected at concentrations exceeding their human health screening standards or no standard was available: delta-BHC (no standard); dieldrin; and toxaphene.

As noted in Table 12, five pesticides were detected at concentrations exceeding their ecological screening standards or no standard was available: 4,4'-dichlorodiphenyldi-chloroethane (4,4'-DDD); 4,4'-dichlorodiphenyldichloro-ethane (4,4'DDE); 4,4'-dichlorodiphenyhrichloro-ethane (4,4'-DDT); dieldrin; and toxaphene (no standard).

Because there are exceedances of selected pesticides in this data set as well as detections of other pesticides below applicable standards, the Appendix IX pesticides list will be utilized for the Phase II soil sampling activities.

3.3.2.4 Polychlorinated Biphenyls

One PCB (Aroclor-1254) was detected during the Phase I activities. The frequency of detection is 2 percent. The detection exceeded the human health RSL, but not the MDEQ TRGs. When compared to the ecological screening value of 20 parts per billion(USEPA 2012c), a single detection of Aroclor-1254 exceeded the USEPA recommended screening level. The location of the single detection is at sample location SS-AO-SS-03, which is directly east of the site.

Because Aroclor-1254 exceeded the ecological screening level, the Appendix IX PCB list will be utilized for Phase II soil sampling activities.

3.3.2.5 Herbicides

No herbicides were detected in soil above a screening level during the Phase I activities (Tables 11 and 12).

Herbicides will be excluded from the soil analyte list for the Phase II activities.

3.3.2.6 Dioxathion/Dioxenethion

Cis-dioxathion, trans-dioxathion, and dioxenethion were detected in soil samples during the Phase I sampling activities; however, these detections were below the MDEQ TRGs. There are no USEPA RSLs for these compounds.

Cis-dioxathion, trans-dioxathion, and dioxenethion will be included for the surface soil samples collected for ecological evaluation only during the Phase II soil sampling activities.

3.3.2.7 Dioxins/Furans

Dioxins and furans were detected in soil during the Phase I activities. There are minimal exceedances of the MDEQ TRGs. There are no generic ecological screening standards for the detected dioxins and furans.

Because there are exceedances of the dioxins or furans standards, these compounds will be included in the soil analyte list for the Phase II activities. Dioxins and furans analysis will only be conducted on soil samples collected from 0 to 2 ft bls.

3.3.2.8 Inorganics

As noted in Table 11, one metal was detected at a concentration exceeding the human health screening standard: arsenic.

As noted in Table 12, ten metals were detected at concentrations exceeding their ecological screening standard: antimony; cadmium; chromium; cobalt; copper; lead; mercury; nickel; vanadium; and zinc.

Because there are exceedances of selected metals in this data set as well as detections of other metals below applicable standards, the Appendix IX metals list will be utilized for the Phase II soil sampling activities.

There is a single detection of sulfide in soil; however, this is a general chemistry parameter with no screening level. Because sulfide will not be a risk driver at the Site and the frequency of detection is 2 percent, sulfide will be excluded from the soil analyte list for Phase II activities.

3.3.3 Surface Water

The maximum detection summaries for surface water samples are presented in Tables 13 and 14. The Table 13 summary contains human health comparison criteria, while the Table 14 summary contains ecological comparison criteria.

3.3.3.1 Volatile Organic Compounds

As noted in Table 13, five VOCs were detected at concentrations exceeding their human health screening standards: 1,4-dioxane; benzene; carbon tetrachloride; chloroform; and vinyl chloride.

As noted in Table 14, no VOCs were detected at concentrations exceeding their ecological screening standards.

Because there are exceedances of selected VOCs in this data set as well as detections of other VOCs below applicable standards, the Appendix IX VOC list will be utilized for the Phase II surface water sampling activities.

3.3.3.2 Semivolatile Organic Compounds

As noted in Table 13, six SVOCs were detected at concentrations exceeding their human health screening standards or no standard was available: 1,1'-biphenyl; 1,4-dioxane; bis(2-ethylhexyl)phthalate; diphenyl ether (no standard); naphthalene; and o,o,o-triethylphosphorothioate (no standard).

As noted in Table 14, five SVOCs were detected at concentrations exceeding their ecological screening standards or no standard was available: 2,2'oxybis(1-chloropropane) (no standard); acetophenone (no standard); bis(2-ethylhexyl)phthalate; diphenyl ether (no standard); and o,o,o-triethylphosphorothioate (no standard).

Because there are exceedances of selected SVOCs in this data set as well as detections of other SVOCs below applicable standards, the Appendix IX SVOCs list will be utilized for the Phase II surface water sampling activities.

3.3.3.3 Pesticides

No pesticides were detected in surface water above a screening level during the Phase I activities (Tables 13 and 14). However, several constituents have MDLs above applicable USEPA NRWQCs and USEPA RSLs.

Pesticides are not considered to be site-related constituents based on previous surface water data. However, pesticides will be analyzed for 20 percent of the surface water samples collected during implementation of Phase II sampling activities to account for elevated MDLs.

3.3.3.4 Polychlorinated Biphenyls

No PCBs were detected in surface water above a screening level during the Phase I activities (Tables 13 and 14). However, several constituents have MDLs above applicable USEPA NRWQCs and USEPA RSLs.

PCBs are not considered to be site-related constituents based on previous surface water data. However, PCBs will be analyzed for 20 percent of the surface water samples collected during implementation of Phase II sampling activities to account for elevated MDLs.

3.3.3.5 Herbicides

No herbicides were detected in surface water above a screening level during the Phase I activities (Tables 13 and 14).

Herbicides will be excluded from the surface water analyte list for the Phase II activities.

3.3.3.6 Dioxathion/Dioxenethion

Dioxenethion was detected in one surface water sample during the Phase I sampling activities. There is no NRWQC or USEPA RSL for this compound. If the dioxathion standard is used for comparison, the detection is below the standards. There are no ecological screening standards for these compounds. Cis-dioxathion, trans-dioxathion, and dioxenethion will be included for the samples collected for ecological evaluation only during the Phase II sediment sampling activities.

3.3.3.7 Dioxins/Furans

Two dioxin congeners (1,2,3,4,6,7,8-HpCDD and octachlorodibenzo-p-dioxin) were detected; however, there are no human health or ecological screening levels for surface water (Tables 13 and 14). Additionally, several constituents have MDLs above applicable USEPA NRWQCs and USEPA RSLs.

Consequently, dioxins and furans will be analyzed for 20 percent of the surface water samples collected during implementation of Phase II sampling activities.

3.3.3.8 Inorganics

As noted in Table 13, four metals were detected at concentrations exceeding their human health screening standards: arsenic; cobalt; lead; and thallium.

As noted in Table 14, three metals were detected at concentrations exceeding their ecological screening standards: copper; lead; and silver.

Because there are exceedances of selected metals in this data set as well as detections of other metals below applicable standards, the Appendix IX metals list will be utilized for the surface water Phase II activities.

There are detections of sulfide in surface water; however, this is a general chemistry parameter with no screening level. Because sulfide will not be a risk driver at the Site, sulfide will be excluded from the surface water analyte list for Phase II activities.

3.3.4 Sediment

Table 7 provides an occurrence summary for all constituents analyzed during the Phase I sediment sampling.

The maximum detection summaries for sediment samples are presented in Tables 15 and 16. The Table 15 summary contains human health comparison criteria, while the Table 16 summary contains ecological comparison criteria.

3.3.4.1 Volatile Organic Compounds

As noted in Table 15, one VOC was detected at concentrations exceeding its human health screening standard: vinyl chloride.

As noted in Table 16, three VOCs were detected at concentrations exceeding their ecological screening standards: 2-butanone; acetone; and benzene.

Because there are exceedances of selected VOCs in this data set as well as detections of other VOCs below applicable standards, the Appendix IX VOC list will be utilized for the Phase II sediment sampling activities.

3.3.4.2 Semivolatile Organic Compounds

As noted in Table15, three SVOCs were detected at concentrations exceeding their human health screening standards or no standard was available: benzo(a)pyrene; benzo(b)fluoranthene; and diphenyl ether (no standard).

As noted in Table 16, eight SVOCs were detected at concentrations exceeding their ecological screening standards or no standard was available: 1,1'-biphenyl; 4-methylphenol; aniline; benzyl alcohol; bis(2-ethylhexyl)phthalate; diphenyl ether (no standard); naphthalene (no standard); and phenol.

Because there are exceedances of selected SVOCs in this data set as well as detections of other SVOCs below applicable standards, the Appendix IX SVOC list will be utilized for the Phase II sediment sampling activities.

3.3.4.3 Pesticides

No pesticides were detected in sediment above a human health screening level during the Phase I activities (Table 15).

As noted in Table 16, three pesticides were detected above an ecological screening standard: 4,4'-DDD; 4,4'-DDE; and 4,4-DDT.

Because there are exceedances of the ecological screening standards, pesticides will be included in the sediment analyte list for the Phase II activities.

3.3.4.4 Polychlorinated Biphenyls

There was one PCB detection (Aroclor-1260) in sediment at a level below the human health screening standard during the Phase I activities (Table 15).

There is no generic ecological screening standard for Aroclor-1260 (Table 16).

Because there is no exceedance of the human health screening standards and there is only one detection, PCBs will be excluded in the sediment analyte list for the Phase II activities.

3.3.4.5 Herbicides

No herbicides were detected in sediment above a screening level during the Phase I activities (Tables 15 and 16).

Herbicides will be excluded from the sediment analyte list for the Phase II activities.

3.3.4.6 Dioxathion/Dioxenethion

Cis-dioxathion, trans-dioxathion, and dioxenethion were detected in sediment samples during the Phase I sampling activities; however, these detections of cis-dioxathion and trans-dioxathion were below the MDEQ TRGs. There are no USEPA RSLs or ecological screening standards for these compounds nor are there MDEQ TRGs for dioxenethion.

Cis-dioxathion, trans-dioxathion, and dioxenethion will be included for the samples collected for ecological evaluation only during the Phase II sediment sampling activities.

3.3.4.7 Dioxins/Furans

Dioxins and furans were detected in sediment during the Phase I activities. There are minimal exceedances of the MDEQ TRGs. There are no generic ecological screening standards for the detected dioxins and furans.

Because there are exceedances of the dioxins or furans standards, these compounds will be included in the sediment analyte list for the Phase II activities.

3.3.4.8 Inorganics

As noted in Table 15, two metals were detected at concentrations exceeding their human health screening standards: arsenic; and cobalt.

As noted in Table 16, twelve metals were detected at concentrations exceeding their ecological screening standards or no standards are available: arsenic; barium (no standard); beryllium (no standard); cadmium; cobalt; copper; lead; mercury; nickel; thallium (no standard); vanadium (no standard); and zinc.

Because there are exceedances of selected metals in this data set as well as detections of other metals below applicable standards, the Appendix IX metals list will be utilized for the Phase II sediment sampling activities.

There are no detections of sulfide in sediment. Sulfide will be excluded from the sediment analyte list for Phase II activities.

There are detections of cyanide in the data set; however, no detection is above the human health screening standard. There are exceedances of the ecological screening standard. Because there are exceedances of the ecological screening standards, cyanide will be included in the sediment analyte list for the Phase II activities.

3.3.5 Industrial and Residential Well Data

The maximum detected concentrations for the industrial and residential wells are summarized in Tables 17 and 18, respectively. For the industrial wells, four VOCs were reported above a screening level (benzene; tetrachloroethene; trichloroethane; and vinyl chloride), two SVOCs were reported above a screening level (1,4-dioxane and acetophenone), and one metal was reported above a screening level (arsenic). For the residential well, one SVOC was reported above a screening level (acetophenone) and one metal (arsenic).

3.3.6 Soil Gas and Ambient Air Data

The maximum detected concentrations of soil gas and ambient air VOC data are summarized in Tables 19 and 20, respectively. There are several exceedances of VOC screening standards.

Because there are exceedances of screening standards, the TO-15 VOC list will continue to be used during future soil gas and ambient air sampling events.

3.4 Summary

Based on the evaluation herein, summaries of the COPC are provided in Table 21 (human health comparison criteria), Table 22 (ecological comparison criteria), and Table 23 (ambient air). Based on the evaluations of the July 2011 sampling data and Phase I data, discussions with USEPA, evaluations of historical analytical data, and a review of the manufacturing processes at the Site, the following analyte list is proposed for the Phase II assessment activities:

Phase II Analyte List

Analytical Method	Soil Gas/ Ambient Air	Groundwater	Soil	Surface Water	Sediment
TO-15 VOCs	X				
Appendix IX VOCs		X	X	X	X
Appendix IX SVOCs		X	X	X	X
Appendix IX Metals		X	X	X	X[3]
Appendix IX Dioxins/ Furans		X[4]	X[1]	X[4]	X
Appendix IX Pesticides		X[4]	X	X[4]	X[2]
Dioxathion/ Dioxenethion			X[2]	X	X
PCBs		X[4]		X[4]	
Appendix IX Herbicides					
Sulfide					

1 Dioxins/furans analysis will only be conducted on soil samples collected from 0 to 2 ft bls.
2 Ecological only.
3 To include cyanide.
4 Only 20 percent of samples collected will be analyzed for these constituents.

This COPC list may be revised after subsequent investigations. Additionally, modifications to this analyte list may be proposed to address the soil gas, sub-slab, and indoor air media after additional groundwater sampling is complete. Any revisions to the COPC list will be approved by USEPA and MDEQ prior to implementation.

4. References

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USEPA. 2012c. Approval of Draft Constituents of Potential Concern for Phase II Investigation RCRA 3013(a) Administrative Order, Docket No. RCRA-04-2011-4251.

ARCADIS

Tables

Table 1. Occurrence Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
				Min	-	Max	Min	-	Max						
	Number of Detects	Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260															
1,1,1,2-Tetrachloroethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	4.06E-01	5.00E-01	c	no	ND
1,1,1-Trichloroethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	2.00E+02	7.50E+03	n	no	ND
1,1,2,2-Tetrachloroethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	5.27E-02	6.60E-02	c	no	ND
1,1,2-Trichloroethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	5.00E+00	2.40E-01	c**	no	ND
1,1-Dichloroethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	7.98E+02	2.40E+00	c	no	ND
1,1-Dichloroethene	1	- 23	4	1.00E+00	-	1.30E+03	2.80E-01	-	2.80E-01	GW-AO-GP-31 (3/28/2012)	7.00E+00	2.60E+02	n	no	BSL
1,2,3-Trichloropropane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	6.23E-03	6.50E-04	c	no	ND
1,2,4-Trichlorobenzene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	7.00E+01	9.90E-01	c**	no	ND
1,2-Dibromo-3-chloropropane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	2.00E-01	3.20E-04	c	no	ND
1,2-Dibromoethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	5.00E-02	6.50E-03	c	no	ND
1,2-Dichlorobenzene	1	- 23	4	1.00E+00	-	1.30E+03	1.50E+00	-	1.50E+00	GW-AO-GP-04 (03/30/12)	6.00E+02	2.80E+02	n	no	BSL
1,2-Dichloroethane	1	- 23	4	1.00E+00	-	1.30E+03	3.30E-01	-	3.30E-01	GW-AO-GP-24D (3/29/2012)	5.00E+00	1.50E-01	c*	**YES**	ASL
1,2-Dichloropropane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	5.00E+00	3.80E-01	c*	no	ND
1,3-Dichlorobenzene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	5.48E+00	NA		no	ND
1,4-Dichlorobenzene	1	- 23	4	1.00E+00	-	1.30E+03	3.30E-01	-	3.30E-01	GW-AO-GP-04 (3/30/2012)	7.50E+01	4.20E-01	c	no	BSL
1,4-Dioxane	1	- 23	4	5.00E+01	-	6.30E+04	8.30E+01	-	8.30E+01	GW-AO-GP-03 (4/2/2012)	6.09E+00	6.70E-01	c	**YES**	ASL
2-Butanone	1	- 23	4	1.00E+01	-	1.30E+04	1.10E+00	-	1.10E+00	GW-AO-GP-30S (3/29/2012)	1.91E+03	4.90E+03	n	no	BSL
2-Chloro-1,3-butadiene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.43E+01	1.60E-02	c	no	ND
2-Hexanone	0	- 23	0	1.00E+01	-	1.30E+04	–	-	–	–	1.46E+03	3.40E+01	n	no	ND
3-Chloropropene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	NA	NA		no	ND
4-Methyl-2-pentanone	2	- 23	9	1.00E+01	-	1.30E+04	1.30E+00	-	2.10E+00	GW-AO-GP-30S (3/29/2012)	1.39E+02	1.00E+03	n	no	BSL
Acetone	11	- 23	48	2.50E+01	-	3.10E+04	8.10E+00	-	5.20E+01	GW-AO-GP-19D (3/28/2012)	6.08E+02	1.20E+04	n	no	BSL
Acetonitrile	0	- 23	0	4.00E+01	-	5.00E+04	–	-	–	–	1.25E+02	1.30E+02	n	no	ND
Acrolein	0	- 23	0	2.00E+01	-	2.50E+04	–	-	–	–	4.16E-02	4.10E-02	n	no	ND
Acrylonitrile	0	- 23	0	2.00E+01	-	2.50E+04	–	-	–	–	3.67E-02	4.50E-02	c*	no	ND
Benzene	6	- 23	26	1.00E+00	-	1.00E+00	3.60E-01	-	1.60E+03	GW-AO-GP-28D (3/30/2012)	5.00E+00	3.90E-01	c*	**YES**	ASL
Bromodichloromethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.68E-01	1.20E-01	c	no	ND
Bromoform	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	8.48E+00	7.90E+00	c*	no	ND
Bromomethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	8.52E+00	7.00E+00	n	no	ND
Carbon Disulfide	7	- 23	30	2.00E+00	-	2.50E+03	1.30E+00	-	6.10E+02	GW-AO-GP-28S (3/27/2012)	1.04E+03	7.20E+02	n	no	BSL
Carbon Tetrachloride	3	- 23	13	1.00E+00	-	1.00E+00	5.20E-01	-	1.20E+05	GW-AO-GP-28D (3/30/2012)	5.00E+00	3.90E-01	c	**YES**	ASL
Chlorobenzene	5	- 23	22	1.00E+00	-	1.00E+00	3.90E+00	-	4.00E+02	GW-AO-GP-28D (3/30/2012)	1.00E+02	7.20E+01	n	**YES**	ASL
Chloroethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	3.64E+00	2.10E+04	n	no	ND
Chloroform	2	- 23	9	1.00E+00	-	1.00E+00	5.20E+03	-	2.30E+04	GW-AO-GP-28D (3/30/2012)	1.55E-01	1.90E-01	c	**YES**	ASL
Chloromethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.43E+00	1.90E+02	n	no	ND
cis-1,3-Dichloropropene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	8.42E-02	4.10E-01	c	no	ND
Dibromochloromethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.26E-01	1.50E-01	c	no	ND
Dibromomethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	6.08E+01	7.90E+00	n	no	ND
Dichlorodifluoromethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	3.48E+02	1.90E+02	n	no	ND
Ethyl Methacrylate	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	5.48E+02	4.20E+02	n	no	ND
Ethylbenzene	4	- 23	17	1.00E+00	-	1.30E+03	1.20E-01	-	4.40E+02	GW-AO-GP-21 (04/03/12)	7.00E+02	1.30E+00	c	**YES**	ASL
Hexachlorobutadiene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	8.59E-01	2.60E-01	c*	no	ND

See footnotes on the last page.

Table 1. Occurrence Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
				Min	-	Max	Min	-	Max						
	Number of Detects	Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Iodomethane	0	- 23	0	5.00E+00	-	6.30E+03	–	-	–	–	NA	NA		no	ND
Isobutanol	0	- 23	0	4.00E+01	-	5.00E+04	–	-	–	–	1.83E+03	4.60E+03	n	no	ND
Methacrylonitrile	0	- 23	0	2.00E+01	-	2.50E+04	–	-	–	–	1.04E+00	7.50E-01	n	no	ND
Methyl Methacrylate	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.42E+03	1.40E+03	n	no	ND
Methylene Chloride	0	- 23	0	5.00E+00	-	6.30E+03	–	-	–	–	5.00E+00	9.90E+00	c**	no	ND
Naphthalene	2	- 23	9	5.00E+00	-	6.30E+03	2.40E+00	-	5.70E+02	GW-AO-GP-21 (04/03/12)	6.20E+00	1.40E-01	c*	**YES**	ASL
Pentachloroethane	0	- 23	0	5.00E+00	-	6.30E+03	–	-	–	–	NA	5.60E-01	c	no	ND
Propionitrile	0	- 23	0	2.00E+01	-	2.50E+04	–	-	–	–	NA	NA		no	ND
Styrene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.00E+02	1.10E+03	n	no	ND
Tetrachloroethene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	5.00E+00	9.70E+00	c**	no	ND
Toluene	2	- 23	9	1.00E+00	-	1.30E+03	1.40E+02	-	1.60E+02	GW-AO-GP-03 (4/2/2012)	1.00E+03	8.60E+02	n	no	BSL
trans-1,2-Dichloroethene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.00E+02	8.60E+01	n	no	ND
trans-1,3-Dichloropropene	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	8.42E-02	4.10E-01	c	no	ND
trans-1,4-Dichloro-2-butene	0	- 23	0	2.00E+00	-	2.50E+03	–	-	–	–	NA	1.20E-03	c	no	ND
Trichloroethene	1	- 23	4	1.00E+00	-	5.00E+02	2.50E+02	-	2.50E+02	GW-AO-GP-28D (3/30/2012)	5.00E+00	4.40E-01	c**	**YES**	ASL
Trichlorofluoromethane	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	1.29E+03	1.10E+03	n	no	ND
Vinyl Acetate	0	- 23	0	2.00E+00	-	2.50E+03	–	-	–	–	4.12E+02	4.10E+02	n	no	ND
Vinyl Chloride	0	- 23	0	1.00E+00	-	1.30E+03	–	-	–	–	2.00E+00	1.50E-02	c	no	ND
Xylenes (total)	3	- 23	13	2.00E+00	-	2.50E+03	3.90E-01	-	5.50E+02	GW-AO-GP-21 (04/03/12)	1.00E+04	1.90E+02	n	**YES**	ASL
Volatile Organic Compounds_Method 8011															
1,2-Dibromo-3-chloropropane	0	- 23	0	2.00E-02	-	2.10E-02	–	-	–	–	2.00E-01	3.20E-04	c	no	ND
1,2-Dibromoethane	1	- 23	4	2.00E-02	-	2.10E-02	1.50E-02	-	1.50E-02	GW-AO-GP-25 (3/28/2012)	5.00E-02	6.50E-03	c	**YES**	ASL
Semi Volatile Organic Compounds_Method 8270C															
1,1'-Biphenyl	4	- 23	17	9.50E-01	-	9.50E+00	9.70E-02	-	1.60E+06	GW-AO-GP-28D (3/30/2012)	3.04E+02	8.30E-01	n	**YES**	ASL
1,2,4,5-Tetrachlorobenzene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	1.10E+01	1.20E+00	n	no	ND
1,2,4-Trichlorobenzene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	7.00E+01	9.90E-01	c**	no	ND
1,2-Dichlorobenzene	1	- 23	4	9.50E-01	-	1.90E+05	1.20E+00	-	1.20E+00	GW-AO-GP-04 (03/30/12)	6.00E+02	2.80E+02	n	no	BSL
1,3,5-Trinitrobenzene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	1.10E+03	4.60E+02	n	no	ND
1,3-Dichlorobenzene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	5.48E+00	NA		no	ND
1,3-Dinitrobenzene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	3.65E+00	1.50E+00	n	no	ND
1,4-Dichlorobenzene	2	- 23	9	9.50E-01	-	1.90E+05	9.70E-02	-	2.20E-01	GW-AO-GP-04 (03/30/12)	7.50E+01	4.20E-01	c	no	BSL
1,4-Dioxane	9	- 23	39	1.90E+00	-	3.90E+05	3.20E-01	-	2.00E+02	GW-AO-GP-03 (4/2/2012)	6.09E+00	6.70E-01	c	**YES**	ASL
1,4-Naphthoquinone	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
1-Naphthylamine	0	- 21	0	4.70E+00	-	9.70E+05	–	-	–	–	NA	NA		no	ND
2,2'-Oxybis(1-Chloropropane)	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	2.60E-01	3.10E-01	c	no	ND
2,3,4,6-Tetrachlorophenol	1	- 23	4	9.50E-01	-	1.90E+05	4.20E+00	-	4.20E+00	GW-AO-GP-21 (4/3/2012)	1.10E+03	1.70E+02	n	no	BSL
2,4,5-Trichlorophenol	1	- 23	4	9.50E-01	-	1.90E+05	1.80E+00	-	1.80E+00	GW-AO-GP-21 (4/3/2012)	3.65E+03	8.90E+02	n	no	BSL
2,4,6-Trichlorophenol	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	6.09E+00	3.50E+00	c**	no	ND
2,4-Dichlorophenol	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	1.10E+02	3.50E+01	n	no	ND
2,4-Dimethylphenol	0	- 23	0	1.90E+00	-	3.90E+05	–	-	–	–	7.30E+02	2.70E+02	n	no	ND
2,4-Dinitrophenol	0	- 23	0	9.50E+00	-	1.90E+06	–	-	–	–	7.30E+01	3.00E+01	n	no	ND
2,4-Dinitrotoluene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	7.30E+01	2.00E-01	c	no	ND
2,6-Dichlorophenol	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
2,6-Dinitrotoluene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	3.65E+01	1.50E+01	n	no	ND
2-Acetylaminofluorene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	1.40E-02	c	no	ND
2-Chloronaphthalene	0	- 23	0	9.50E-01	-	1.90E+05	–	-	–	–	4.87E+02	5.50E+02	n	no	ND

See footnotes on the last page.

Table 1. Occurrence Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
				Min	-	Max	Min	-	Max						
	Number of Detects	Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
2-Chlorophenol	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	3.04E+01	7.10E+01	n	no	ND
2-Methylnaphthalene	1	23	4	1.90E-01	-	3.90E+04	6.50E+01	-	6.50E+01	GW-AO-GP-21 (04/03/12)	1.22E+02	2.70E+01	n	**YES**	ASL
2-Methylphenol	1	23	4	1.90E+00	-	3.90E+05	2.00E+00	-	2.00E+00	GW-AO-GP-03 (4/2/2012)	1.83E+03	7.20E+02	n	no	BSL
2-Naphthylamine	0	21	0	4.70E+00	-	9.70E+05	–	-	–	–	NA	3.30E-02	c	no	ND
2-Nitroaniline	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	4.17E-01	1.50E+02	n	no	ND
2-Nitrophenol	1	23	4	9.50E-01	-	1.90E+05	6.40E-01	-	6.40E-01	GW-AO-GP-31 (3/28/2012)	4.16E-01	NA		**YES**	ASL
2-Picoline	0	23	0	1.90E+00	-	3.90E+05	–	-	–	–	NA	NA		no	ND
3,3'-Dichlorobenzidine	0	21	0	1.90E+01	-	3.90E+06	–	-	–	–	1.49E-01	1.10E-01	c	no	ND
3,3'-Dimethylbenzidine	0	22	0	1.90E+01	-	3.90E+06	–	-	–	–	7.28E-03	5.60E-03	c	no	ND
3-Methylcholanthrene	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	9.80E-04	c	no	ND
3-Nitroaniline	0	22	0	4.70E+00	-	9.70E+05	–	-	–	–	NA	NA		no	ND
4,6-Dinitro-2-methylphenol	0	23	0	4.70E+00	-	9.70E+05	–	-	–	–	3.65E+00	1.20E+00	n	no	ND
4-Aminobiphenyl	0	21	0	4.70E+00	-	9.70E+05	–	-	–	–	NA	2.60E-03	c	no	ND
4-Bromophenyl-phenylether	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
4-Chloro-3-Methylphenol	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	7.30E+04	1.10E+03	n	no	ND
4-Chloroaniline	0	22	0	1.90E+00	-	3.90E+05	–	-	–	–	1.46E+02	3.20E-01	c	no	ND
4-Chlorophenyl-phenylether	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
4-Methylphenol	5	23	22	1.90E+00	-	3.90E+05	6.40E-01	-	5.50E+00	GW-AO-GP-22 (4/3/2012)	1.83E+02	1.40E+03	n	no	BSL
4-Nitroaniline	0	22	0	4.70E+00	-	9.70E+05	–	-	–	–	NA	3.30E+00	c*	no	ND
4-Nitrophenol	0	23	0	4.70E+00	-	9.70E+05	–	-	–	–	2.92E+02	NA		no	ND
4-Nitroquinoline-1-oxide	0	23	0	1.90E+00	-	3.90E+05	–	-	–	–	NA	NA		no	ND
4-Phenylenediamine	0	22	0	1.90E+02	-	3.90E+07	–	-	–	–	6.94E+03	3.00E+03	n	no	ND
5-Nitro-o-toluidine	0	22	0	9.50E-01	-	1.90E+05	–	-	–	–	2.03E+00	7.00E+00	c*	no	ND
7,12-Dimethylbenz(a)anthracene	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	8.60E-05	c	no	ND
a,a'-Dimethylphenethylamine	0	21	0	9.50E+00	-	1.90E+06	–	-	–	–	NA	NA		no	ND
Acenaphthene	1	23	4	1.90E-01	-	3.90E+04	3.60E-01	-	3.60E-01	GW-AO-GP-19D (3/28/2012)	3.65E+02	4.00E+02	n	no	BSL
Acenaphthylene	0	23	0	1.90E-01	-	3.90E+04	–	-	–	–	2.19E+03	NA		no	ND
Acetophenone	0	20	0	9.50E-01	-	1.90E+05	–	-	–	–	4.16E-02	1.50E+03	n	no	ND
Aniline	0	22	0	1.90E+00	-	3.90E+05	–	-	–	–	1.17E+01	1.20E+01	c**	no	ND
Anthracene	0	23	0	1.90E-01	-	3.90E+04	–	-	–	–	4.34E+01	1.30E+03	n	no	ND
Aramite	0	23	0	1.40E+00	-	2.90E+05	–	-	–	–	NA	2.70E+00	c	no	ND
Benzo(a)anthracene	0	23	0	1.90E-01	-	3.90E+04	–	-	–	–	9.17E-02	2.90E-02	c	no	ND
Benzo(a)pyrene	0	23	0	1.90E-01	-	3.90E+04	–	-	–	–	2.00E-01	2.90E-03	c	no	ND
Benzo(b)fluoranthene	0	23	0	1.90E-01	-	3.90E+04	–	-	–	–	9.17E-02	2.90E-02	c	no	ND
Benzo(g,h,i)perylene	1	23	4	1.90E-01	-	3.90E+04	1.00E-01	-	1.00E-01	GW-AO-GP-30S (3/29/2012)	1.10E+03	NA		no	BSL
Benzo(k)fluoranthene	1	23	4	1.90E-01	-	3.90E+04	1.60E-01	-	1.60E-01	GW-AO-GP-30S (3/29/2012)	9.17E-01	2.90E-01	c	no	BSL
Benzyl Alcohol	6	23	26	9.50E-01	-	1.90E+05	1.30E-01	-	1.90E-01	GW-AO-GP-30S (3/29/2012)	1.10E+04	1.50E+03	n	no	BSL
bis(2-Chloroethoxy)methane	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	4.70E+01	n	no	ND
bis(2-Chloroethyl)ether	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	9.20E-03	1.20E-02	c	no	ND
bis(2-Ethylhexyl)phthalate	5	23	22	1.90E+00	-	3.90E+05	6.50E-01	-	1.90E+00	GW-AO-GP-19D (3/28/2012)	6.00E+00	7.10E-02	c*	**YES**	ASL
Butylbenzylphthalate	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	2.69E+03	1.40E+01	c*	no	ND
Chrysene	2	23	9	1.90E-01	-	3.90E+04	7.30E-02	-	8.60E-02	GW-AO-GP-30S (3/29/2012)	9.17E+00	2.90E+00	c	no	BSL
Diallate	0	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	4.60E-01	c	no	ND
Dibenzo(a,h)anthracene	1	23	4	1.90E-01	-	3.90E+04	1.10E-01	-	1.10E-01	GW-AO-GP-30S (3/29/2012)	9.17E-03	2.90E-03	c	**YES**	ASL
Dibenzofuran	1	23	4	9.50E-01	-	1.90E+05	2.30E-01	-	2.30E-01	GW-AO-GP-30D (3/28/2012)	2.43E+01	5.80E+00	n	no	BSL
Diethylphthalate	4	23	17	9.50E-01	-	1.90E+05	1.10E-01	-	2.50E-01	GW-AO-GP-26 (4/2/2012)	2.92E+04	1.10E+04	n	no	BSL
Dimethoate	0	23	0	1.90E+00	-	3.90E+05	–	-	–	–	NA	3.10E+00	n	no	ND

See footnotes on the last page.

Table 1. Occurrence Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
				Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples (%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Dimethylphthalate	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	3.65E+05	NA		no	ND
Di-n-Butylphthalate	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	3.65E+03	6.70E+02	n	no	ND
Di-n-Octylphthalate	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	2.00E+01	NA		no	ND
Dinoseb	0	-	22 0	1.90E+00	-	3.90E+05	–	-	–	–	7.00E+00	1.10E+01	n	no	ND
Diphenyl Ether	14	-	23 61	9.50E-01	-	9.50E+00	1.20E-01	-	4.70E+06	GW-AO-GP-28D (3/30/2012)	NA	NA		**YES**	NSL
Disulfoton	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	1.46E+00	3.80E-01	n	no	ND
Ethyl Methanesulfonate	0	-	23 0	1.90E+00	-	3.90E+05	–	-	–	–	NA	NA		no	ND
Ethyl Parathion	0	-	23 0	1.90E+00	-	3.90E+05	–	-	–	–	2.19E+02	6.50E+01	n	no	ND
Famphur	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
Fluoranthene	0	-	23 0	1.90E-01	-	3.90E+04	–	-	–	–	1.46E+03	6.30E+02	n	no	ND
Fluorene	0	-	23 0	1.90E-01	-	3.90E+04	–	-	–	–	2.43E+02	2.20E+02	n	no	ND
Hexachlorobenzene	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	1.00E+00	4.20E-02	c	no	ND
Hexachlorobutadiene	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	8.59E-01	2.60E-01	c*	no	ND
Hexachlorocyclopentadiene	0	-	23 0	1.90E+00	-	3.90E+05	–	-	–	–	5.00E+01	2.20E+01	n	no	ND
Hexachloroethane	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	4.78E+00	7.90E-01	c**	no	ND
Hexachlorophene	0	-	4 0	4.70E+02	-	4.90E+02	–	-	–	–	1.10E+01	4.70E+00	n	no	ND
Hexachloropropene	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
Indeno(1,2,3-cd)pyrene	1	-	23 4	1.90E-01	-	3.90E+04	9.80E-02	-	9.80E-02	GW-AO-GP-30S (3/29/2012)	9.17E-02	2.90E-02	c	**YES**	ASL
Isophorone	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	7.05E+01	6.70E+01	c*	no	ND
Isosafrole	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
Methapyrilene	0	-	21 0	1.90E+02	-	3.90E+07	–	-	–	–	NA	NA		no	ND
Methyl Methanesulfonate	0	-	23 0	1.90E+00	-	3.90E+05	–	-	–	–	NA	6.80E-01	c	no	ND
Methyl Parathion	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	9.13E+00	3.40E+00	n	no	ND
Naphthalene	2	-	23 9	1.90E-01	-	3.90E+04	1.20E+01	-	3.80E+02	GW-AO-GP-21 (4/3/2012)	6.20E+00	1.40E-01	c*	**YES**	ASL
Nitrobenzene	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	3.53E+00	1.20E-01	c*	no	ND
N-Nitrosodiethylamine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	4.46E-04	1.40E-04	c	no	ND
N-Nitrosodimethylamine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	1.31E-03	4.20E-04	c	no	ND
N-Nitroso-di-n-butylamine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	1.89E-03	2.40E-03	c	no	ND
N-Nitroso-di-n-propylamine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	9.57E-03	9.30E-03	c	no	ND
N-Nitrosodiphenylamine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	1.37E+01	1.00E+01	c	no	ND
N-Nitrosomethylethylamine	0	-	23 0	1.90E+00	-	3.90E+05	–	-	–	–	3.04E-03	3.00E-03	c	no	ND
N-Nitrosomorpholine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	1.00E-02	c	no	ND
N-Nitrosopiperidine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	7.10E-03	c	no	ND
N-Nitrosopyrrolidine	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	3.19E-02	3.20E-02	c	no	ND
o,o,o-Triethylphosphorothioate	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
o-Toluidine	0	-	22 0	9.50E-01	-	1.90E+05	–	-	–	–	2.79E-01	NA		no	ND
p-Dimethylaminoazobenzene	0	-	23 0	4.70E+00	-	9.70E+05	–	-	–	–	NA	4.30E-03	c	no	ND
Pentachlorobenzene	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	2.92E+01	2.30E+00	n	no	ND
Pentachloronitrobenzene	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	2.58E-01	1.00E-01	c	no	ND
Pentachlorophenol	1	-	22 5	4.70E+00	-	9.70E+05	4.40E+01	-	4.40E+01	GW-AO-GP-21 (4/3/2012)	1.00E+00	1.70E-01	c	**YES**	ASL
Phenacetin	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	3.00E+01	c	no	ND
Phenanthrene	0	-	23 0	1.90E-01	-	3.90E+04	–	-	–	–	1.10E+03	NA		no	ND
Phenol	5	-	23 22	9.50E-01	-	1.90E+05	1.60E-01	-	2.80E+00	GW-AO-GP-19D (3/28/2012)	2.19E+04	4.50E+03	n	no	BSL
Phorate	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	2.30E+00	n	no	ND
Pronamide	0	-	23 0	9.50E-01	-	1.90E+05	–	-	–	–	NA	9.00E+02	n	no	ND
Pyrene	0	-	23 0	1.90E-01	-	3.90E+04	–	-	–	–	1.83E+02	8.70E+01	n	no	ND
Pyridine	0	-	22 0	4.70E+00	-	9.70E+05	–	-	–	–	3.65E+01	1.50E+01	n	no	ND

See footnotes on the last page.

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Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)	-	Max (µg/L)	Min (µg/L)	-	Max (µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Safrole	0	-	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	6.20E-02	c	no	ND
Sulfotep	0	-	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	5.30E+00	n	no	ND
Thionazin	0	-	23	0	9.50E-01	-	1.90E+05	–	-	–	–	NA	NA		no	ND
Organochlorine Pesticides_Method 8081																
4,4'-DDD	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	2.79E-01	2.80E-01	c	no	ND
4,4'-DDE	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	1.97E-01	2.00E-01	c	no	ND
4,4'-DDT	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	1.97E-01	2.00E-01	c*	no	ND
4-Chlorobenzilate	0	-	2	0	4.80E-01	-	4.80E-01	–	-	–	–	2.48E-01	2.70E-01	c	no	ND
Aldrin	0	-	2	0	4.80E-02	-	4.80E-02	–	-	–	–	3.94E-03	2.10E-04	c	no	ND
Alpha-BHC	0	-	2	0	4.80E-02	-	4.80E-02	–	-	–	–	1.06E-02	6.20E-03	c	no	ND
Beta-BHC	0	-	2	0	4.80E-02	-	4.80E-02	–	-	–	–	3.72E-02	2.20E-02	c	no	ND
Delta-BHC	0	-	2	0	4.80E-02	-	4.80E-02	–	-	–	–	NA	NA		no	ND
Dieldrin	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	4.19E-03	1.50E-03	c	no	ND
Endosulfan I	1	-	2	50	4.80E-02	-	4.80E-02	1.60E-02	-	1.60E-02	GW-AO-GP-04 (3/30/2012)	2.19E+02	NA		no	BSL
Endosulfan II	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	2.19E+02	NA		no	ND
Endosulfan Sulfate	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	NA	NA		no	ND
Endrin	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	2.00E+00	1.70E+00	n	no	ND
Endrin Aldehyde	0	-	2	0	1.92E-01	-	1.92E-01	–	-	–	–	NA	NA		no	ND
Gamma-BHC (Lindane)	0	-	2	0	1.44E-01	-	1.44E-01	–	-	–	–	2.00E-01	3.60E-02	c*	no	ND
Heptachlor	0	-	2	0	4.80E-02	-	4.80E-02	–	-	–	–	4.00E-01	1.80E-03	c	no	ND
Heptachlor Epoxide	0	-	2	0	4.80E-02	-	4.80E-02	–	-	–	–	2.00E-01	3.30E-03	c*	no	ND
Isodrin	0	-	2	0	4.80E-02	-	4.80E-02	–	-	–	–	NA	NA		no	ND
Kepone	0	-	2	0	9.60E-01	-	9.60E-01	–	-	–	–	NA	3.00E-03	c	no	ND
Methoxychlor	0	-	2	0	9.60E-02	-	9.60E-02	–	-	–	–	4.00E+01	2.70E+01	n	no	ND
Technical Chlordane	0	-	2	0	4.80E-01	-	4.80E-01	–	-	–	–	2.00E+00	2.70E-02	c*	no	ND
Toxaphene	0	-	2	0	4.80E+00	-	4.80E+00	–	-	–	–	3.00E+00	1.30E-02	c	no	ND
Polychlorinated Biphenyls_Method 8082																
Aroclor-1016	0	-	2	0	3.80E-01	-	3.80E-01	–	-	–	–	9.57E-01	9.60E-01	c**	no	ND
Aroclor-1221	0	-	2	0	3.80E-01	-	3.80E-01	–	-	–	–	3.35E-02	4.30E-03	c	no	ND
Aroclor-1232	0	-	2	0	3.80E-01	-	3.80E-01	–	-	–	–	3.35E-02	4.30E-03	c	no	ND
Aroclor-1242	0	-	2	0	3.80E-01	-	3.80E-01	–	-	–	–	3.35E-02	3.40E-02	c	no	ND
Aroclor-1248	0	-	2	0	3.80E-01	-	3.80E-01	–	-	–	–	3.35E-02	3.40E-02	c	no	ND
Aroclor-1254	0	-	2	0	3.80E-01	-	3.80E-01	–	-	–	–	3.35E-02	3.40E-02	c**	no	ND
Aroclor-1260	0	-	2	0	3.80E-01	-	3.80E-01	–	-	–	–	3.35E-02	3.40E-02	c	no	ND
Herbicides_Method 8151																
2,4,5-T	0	-	2	0	4.80E-01	-	4.80E-01	–	-	–	–	3.65E+02	1.20E+02	n	no	ND
2,4,5-TP	0	-	2	0	4.80E-01	-	4.80E-01	–	-	–	–	5.00E+01	8.40E+01	n	no	ND
2,4-D	0	-	2	0	4.80E-01	-	4.80E-01	–	-	–	–	7.00E+01	1.30E+02	n	no	ND
Dinoseb	0	-	2	0	5.80E+00	-	5.80E+00	–	-	–	–	7.00E+00	1.10E+01	n	no	ND
Pentachlorophenol	0	-	2	0	2.40E-01	-	2.40E-01	–	-	–	–	1.00E+00	1.70E-01	c	no	ND
Dioxathion/Dioxenethion_Method 8310																
cis-Dioxathion	1	-	2	50	2.50E+00	-	2.50E+00	3.59E+00	-	3.59E+00	GW-AO-GP-24D (3/29/2012)	5.48E+01	NA		no	BSL
Dioxenethion	1	-	2	50	5.00E-01	-	5.00E-01	9.42E+00	-	9.42E+00	GW-AO-GP-04 (03/30/12)	NA	NA		**YES**	NSL
trans-Dioxathion	0	-	2	0	2.50E+00	-	2.50E+00	–	-	–	–	5.48E+01	NA		no	ND
Dioxins and Furans_Method 8290																
1,2,3,4,6,7,8-HpCDD	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-05	NA		no	ND
1,2,3,4,6,7,8-HpCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-05	NA		no	ND

See footnotes on the last page.

Table 1. Occurrence Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
1,2,3,4,7,8,9-HpCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-05	NA		no	ND
1,2,3,4,7,8-HxCDD	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-06	NA		no	ND
1,2,3,4,7,8-HxCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-06	NA		no	ND
1,2,3,6,7,8-HxCDD	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	1.08E-05	NA		no	ND
1,2,3,6,7,8-HxCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-06	NA		no	ND
1,2,3,7,8,9-HxCDD	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	1.08E-05	NA		no	ND
1,2,3,7,8,9-HxCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-06	NA		no	ND
1,2,3,7,8-PeCDD	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	8.93E-07	NA		no	ND
1,2,3,7,8-PeCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	8.93E-06	NA		no	ND
2,3,4,6,7,8-HxCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	4.46E-06	NA		no	ND
2,3,4,7,8-PeCDF	0	-	2	0	4.70E-05	-	4.70E-05	–	-	–	–	8.93E-07	NA		no	ND
2,3,7,8-TCDD	0	-	2	0	9.40E-06	-	9.40E-06	–	-	–	–	3.00E-05	5.20E-07	c*	no	ND
2,3,7,8-TCDF	0	-	2	0	9.40E-06	-	9.40E-06	–	-	–	–	4.46E-06	NA		no	ND
Octachlorodibenzofuran	0	-	2	0	9.40E-05	-	9.40E-05	–	-	–	–	4.46E-04	NA		no	ND
Octachlorodibenzo-p-Dioxin	0	-	2	0	9.40E-05	-	9.40E-05	–	-	–	–	4.46E-04	NA		no	ND
Total Metals_Method 6020																
Antimony	1	-	23	4	5.00E+00	-	5.00E+00	2.40E+00	-	2.40E+00	GW-AO-GP-28D (3/30/2012)	6.00E+00	6.00E+00	n	no	BSL
Arsenic	15	-	23	65	2.50E+00	-	2.50E+00	1.30E+00	-	5.70E+01	GW-AO-GP-21 (4/3/2012)	5.00E+01	4.50E-02	c	**YES**	ASL
Barium	23	-	23	100	–	-	–	4.60E+01	-	5.30E+02	GW-AO-GP-03 (4/2/2012)	2.00E+03	2.90E+03	n	no	BSL
Beryllium	10	-	23	44	5.00E-01	-	5.00E-01	1.50E-01	-	3.90E+00	GW-AO-GP-26 (4/2/2012)	4.00E+00	1.60E+01	n	no	BSL
Cadmium	2	-	23	9	5.00E-01	-	5.00E-01	3.30E-01	-	9.50E-01	GW-AO-GP-26 (4/2/2012)	5.00E+00	6.90E+00	n	no	BSL
Chromium	5	-	23	22	5.00E+00	-	5.00E+00	2.60E+00	-	9.20E+01	GW-AO-GP-28D (3/30/2012)	5.48E+04	1.60E+04	n	no	BSL
Cobalt	23	-	23	100	–	-	–	5.20E-01	-	5.00E+01	GW-AO-GP-26 (4/2/2012)	2.19E+03	4.70E+00	n	**YES**	ASL
Copper	11	-	23	48	5.00E+00	-	5.00E+00	1.10E+00	-	2.60E+01	GW-AO-GP-28D (3/30/2012)	1.30E+03	6.20E+02	n	no	BSL
Lead	6	-	21	29	1.50E+00	-	2.20E+00	6.20E-01	-	3.50E+01	GW-AO-GP-28D (3/30/2012)	1.50E+01	NA		**YES**	ASL
Mercury	1	-	23	4	2.00E-01	-	2.00E-01	1.40E-01	-	1.40E-01	GW-AO-GP-29D (3/27/2012)	2.00E+00	6.30E-01	n	no	BSL
Nickel	21	-	23	91	5.00E+00	-	5.00E+00	2.00E+00	-	8.80E+01	GW-AO-GP-26 (4/2/2012)	7.30E+02	3.00E+02	n	no	BSL
Selenium	2	-	23	9	2.50E+00	-	5.90E+00	1.30E+00	-	2.10E+00	GW-AO-GP-30S (3/29/2012)	5.00E+01	7.80E+01	n	no	BSL
Silver	0	-	23	0	1.00E+00	-	1.00E+00	–	-	–	–	1.83E+02	7.10E+01	n	no	ND
Thallium	4	-	23	17	1.00E+00	-	1.00E+00	2.80E-01	-	3.90E-01	GW-AO-GP-29S (3/27/2012)	2.00E+00	1.60E-01	n	**YES**	ASL
Tin	2	-	23	9	5.00E+00	-	5.00E+00	1.70E+00	-	9.80E+00	GW-AO-GP-28D (3/30/2012)	2.19E+04	9.30E+03	n	no	BSL
Vanadium	5	-	23	22	1.00E+01	-	1.00E+01	3.60E+00	-	8.60E+01	GW-AO-GP-28D (3/30/2012)	2.56E+02	7.80E+01	n	**YES**	ASL
Zinc	13	-	23	57	2.00E+01	-	2.00E+01	8.90E+00	-	5.40E+02	GW-AO-GP-26 (4/2/2012)	1.10E+04	4.70E+03	n	no	BSL
Other																
Cyanide	0	-	2	0	1.00E+01	-	1.00E+01	–	-	–	–	2.00E+02	9.30E+00	n	no	ND
Sulfide	1	-	2	50	1.00E+03	-	1.00E+03	3.10E+03	-	3.10E+03	GW-AO-GP-04 (3/30/2012)	NA	NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department	TRG	Target Remediation Goal
ASL	Above screening level.		of Environmental Quality	USEPA	United States Environmental
BSL	Below screening level.	n	Noncancer.		Protection Agency.
c	Cancer.	NA	Not available.	µg/L	Microgram per liter.
COPC	Constituent of Potential Concern.	NSL	No screening level.		

[a] All temporary groundwater monitoring analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Target Remediation Goal (MDEQ 2002).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; and n = non-cancer.

[e] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[f] A constituent detected with a maximum concentration above the minimium of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 2. Occurrence Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
	Number of Detects	Number of Samples	(%)	Min (µg/L)	Max (µg/L)		Min (µg/L)	Max (µg/L)			(µg/L)	(µg/L)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260															
1,1,1,2-Tetrachloroethane	0	23	0	1.00E+00	2.00E+02		–	–		–	4.06E-01	5.00E-01	c	no	ND
1,1,1-Trichloroethane	0	23	0	1.00E+00	2.00E+02		–	–		–	2.00E+02	7.50E+03	n	no	ND
1,1,2,2-Tetrachloroethane	0	23	0	1.00E+00	2.00E+02		–	–		–	5.27E-02	6.60E-02	c	no	ND
1,1,2-Trichloroethane	0	23	0	1.00E+00	2.00E+02		–	–		–	5.00E+00	2.40E-01	c**	no	ND
1,1-Dichloroethane	0	23	0	1.00E+00	2.00E+02		–	–		–	7.98E+02	2.40E+00	c	no	ND
1,1-Dichloroethene	0	23	0	1.00E+00	2.00E+02		–	–		–	7.00E+00	2.60E+02	n	no	ND
1,2,3-Trichloropropane	0	23	0	1.00E+00	2.00E+02		–	–		–	6.23E-03	6.50E-04	c	no	ND
1,2-Dibromo-3-chloropropane	0	23	0	1.00E+00	2.00E+02		–	–		–	2.00E-01	3.20E-04	c	no	ND
1,2-Dibromoethane	0	23	0	1.00E+00	2.00E+02		–	–		–	5.00E-02	6.50E-03	c	no	ND
1,2-Dichloroethane	0	23	0	1.00E+00	2.00E+02		–	–		–	5.00E+00	1.50E-01	c*	no	ND
1,2-Dichloropropane	0	23	0	1.00E+00	2.00E+02		–	–		–	5.00E+00	3.80E-01	c*	no	ND
2-Butanone	0	23	0	1.00E+01	2.00E+03		–	–		–	1.91E+03	4.90E+03	n	no	ND
2-Chloro-1,3-butadiene	0	23	0	1.00E+00	2.00E+02		–	–		–	1.43E+01	1.60E-02	c	no	ND
2-Hexanone	0	23	0	1.00E+01	2.00E+03		–	–		–	1.46E+03	3.40E+01	n	no	ND
3-Chloropropene	0	23	0	1.00E+00	2.00E+02		–	–		–	NA	NA		no	ND
4-Methyl-2-pentanone	2	23	9	1.00E+01	2.00E+03		2.10E+01	1.10E+03		MW-23(7/26/2011)	1.39E+02	1.00E+03	n	**YES**	ASL
Acetone	0	23	0	2.50E+01	5.00E+03		–	–		–	6.08E+02	1.20E+04	n	no	ND
Acetonitrile	0	23	0	4.00E+01	8.00E+03		–	–		–	1.25E+02	1.30E+02	n	no	ND
Acrolein	0	23	0	2.00E+01	4.00E+03		–	–		–	4.16E-02	4.10E-02	n	no	ND
Acrylonitrile	0	23	0	2.00E+01	4.00E+03		–	–		–	3.67E-02	4.50E-02	c*	no	ND
Benzene	7	23	30	1.00E+00	1.00E+00		1.00E+01	8.80E+03		MW-23(7/26/2011)	5.00E+00	3.90E-01	c*	**YES**	ASL
Bromodichloromethane	0	23	0	1.00E+00	2.00E+02		–	–		–	1.68E-01	1.20E-01	c	no	ND
Bromoform	0	23	0	1.00E+00	2.00E+02		–	–		–	8.48E+00	7.90E+00	c*	no	ND
Bromomethane	0	23	0	1.00E+00	2.00E+02		–	–		–	8.52E+00	7.00E+00	n	no	ND
Carbon Disulfide	1	23	4	2.00E+00	4.00E+02		3.90E+02	3.90E+02		MW-23(7/26/2011)	1.04E+03	7.20E+02	n	no	BSL
Carbon Tetrachloride	4	23	17	1.00E+00	1.00E+02		3.50E+00	2.50E+04		MW-17(7/26/2011)	5.00E+00	3.90E-01	c	**YES**	ASL
Chlorobenzene	8	23	35	1.00E+00	1.00E+00		8.70E+00	7.70E+02		MW-17(7/26/2011)	1.00E+02	7.20E+01	n	**YES**	ASL
Chloroethane	0	23	0	1.00E+00	2.00E+02		–	–		–	3.64E+00	2.10E+04	n	no	ND
Chloroform	6	23	26	1.00E+00	1.00E+00		3.30E+00	4.30E+03		MW-21(7/26/2011)	1.55E-01	1.90E-01	c	**YES**	ASL
Chloromethane	0	23	0	1.00E+00	2.00E+02		–	–		–	1.43E+00	1.90E+02	n	no	ND
cis-1,2-Dichloroethene	0	23	0	1.00E+00	2.00E+02		–	–		–	7.00E+01	2.80E+01	n	no	ND
cis-1,3-Dichloropropene	0	23	0	1.00E+00	2.00E+02		–	–		–	8.42E-02	4.10E-01	c	no	ND
Dibromochloromethane	0	23	0	1.00E+00	2.00E+02		–	–		–	1.26E-01	1.50E-01	c	no	ND
Dibromomethane	0	23	0	1.00E+00	2.00E+02		–	–		–	6.08E+01	7.90E+00	n	no	ND

See footnotes on the last page.

Table 2. Occurrence Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)	-	Max (µg/L)	Min (µg/L)	-	Max (µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Dichlorodifluoromethane	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	3.48E+02	1.90E+02	n	no	ND
Ethyl Methacrylate	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	5.48E+02	4.20E+02	n	no	ND
Ethylbenzene	2	-	23	9	1.00E+00	-	2.00E+02	1.30E+00	-	6.10E+01	MW-08 (7/26/2011)	7.00E+02	1.30E+00	c	**YES**	ASL
Iodomethane	0	-	23	0	5.00E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
Isobutanol	0	-	23	0	4.00E+01	-	8.00E+03	–	-	–	–	1.83E+03	4.60E+03	n	no	ND
Methacrylonitrile	0	-	23	0	2.00E+01	-	4.00E+03	–	-	–	–	1.04E+00	7.50E-01	n	no	ND
Methyl Methacrylate	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	1.42E+03	1.40E+03	n	no	ND
Methylene Chloride	1	-	23	4	5.00E+00	-	1.00E+03	3.50E+02	-	3.50E+02	MW-08 (7/26/2011)	5.00E+00	9.90E+00	c**	**YES**	ASL
Pentachloroethane	0	-	23	0	5.00E+00	-	1.00E+03	–	-	–	–	NA	5.60E-01	c	no	ND
Propionitrile	0	-	23	0	2.00E+01	-	4.00E+03	–	-	–	–	NA	NA		no	ND
Styrene	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	1.00E+02	1.10E+03	n	no	ND
Tetrachloroethene	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	5.00E+00	9.70E+00	c**	no	ND
Toluene	4	-	23	17	1.00E+00	-	2.00E+02	1.10E+00	-	2.60E+03	MW-21(7/26/2011)	1.00E+03	8.60E+02	n	**YES**	ASL
trans-1,2-Dichloroethene	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	1.00E+02	8.60E+01	n	no	ND
trans-1,3-Dichloropropene	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	8.42E-02	4.10E-01	c	no	ND
trans-1,4-Dichloro-2-butene	0	-	23	0	2.00E+00	-	4.00E+02	–	-	–	–	NA	1.20E-03	c	no	ND
Trichloroethene	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	5.00E+00	4.40E-01	c**	no	ND
Trichlorofluoromethane	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	1.29E+03	1.10E+03	n	no	ND
Vinyl Acetate	0	-	23	0	2.00E+00	-	4.00E+02	–	-	–	–	4.12E+02	4.10E+02	n	no	ND
Vinyl Chloride	0	-	23	0	1.00E+00	-	2.00E+02	–	-	–	–	2.00E+00	1.50E-02	c	no	ND
Xylenes (total)	0	-	23	0	2.00E+00	-	4.00E+02	–	-	–	–	1.00E+04	1.90E+02	n	no	ND
Semi Volatile Organic Compounds_Method 8270C																
1,1'-Biphenyl	1	-	8	13	9.90E+00	-	1.00E+03	7.70E+02	-	7.70E+02	MW-19(7/26/2011)	3.04E+02	8.30E-01	n	**YES**	ASL
1,2,4,5-Tetrachlorobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.10E+01	1.20E+00	n	no	ND
1,2,4-Trichlorobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	7.00E+01	9.90E-01	c**	no	ND
1,2-Dichlorobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	6.00E+02	2.80E+02	n	no	ND
1,3,5-Trinitrobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.10E+03	4.60E+02	n	no	ND
1,3-Dichlorobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	5.48E+00	NA		no	ND
1,3-Dinitrobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.65E+00	1.50E+00	n	no	ND
1,4-Dichlorobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	7.50E+01	4.20E-01	c	no	ND
1,4-Dioxane	4	-	8	50	9.90E+00	-	1.00E+03	2.30E+01	-	1.30E+04	MW-08(7/26/2011)	6.09E+00	6.70E-01	c	**YES**	ASL
1,4-Naphthoquinone	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
1-Naphthylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
2,2'-Oxybis(1-Chloropropane)	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.60E-01	3.10E-01	c	no	ND
2,3,4,6-Tetrachlorophenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.10E+03	1.70E+02	n	no	ND
2,4,5-Trichlorophenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.65E+03	8.90E+02	n	no	ND

See footnotes on the last page.

Table 2. Occurrence Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
2,4,6-Trichlorophenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	6.09E+00	3.50E+00	c**	no	ND
2,4-Dichlorophenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.10E+02	3.50E+01	n	no	ND
2,4-Dimethylphenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	7.30E+02	2.70E+02	n	no	ND
2,4-Dinitrophenol	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	7.30E+01	3.00E+01	n	no	ND
2,4-Dinitrotoluene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	7.30E+01	2.00E-01	c	no	ND
2,6-Dichlorophenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
2,6-Dinitrotoluene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.65E+01	1.50E+01	n	no	ND
2-Acetylaminofluorene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	1.40E-02	c	no	ND
2-Chloronaphthalene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	4.87E+02	5.50E+02	n	no	ND
2-Chlorophenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.04E+01	7.10E+01	n	no	ND
2-Methylnaphthalene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.22E+02	2.70E+01	n	no	ND
2-Methylphenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.83E+03	7.20E+02	n	no	ND
2-Naphthylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	3.30E-02	c	no	ND
2-Nitroaniline	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	4.17E-01	1.50E+02	n	no	ND
2-Nitrophenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	4.16E-01	NA		no	ND
2-Picoline	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
3,3'-Dichlorobenzidine	0	-	8	0	5.90E+01	-	6.00E+03	–	-	–	–	1.49E-01	1.10E-01	c	no	ND
3,3'-Dimethylbenzidine	0	-	8	0	2.00E+01	-	2.00E+03	–	-	–	–	7.28E-03	5.60E-03	c	no	ND
3-Methylcholanthrene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	9.80E-04	c	no	ND
3,4-Methylphenol	1	-	8	13	9.90E+00	-	1.00E+03	6.60E+02	-	6.60E+02	MW-23(7/26/2011)	NA	7.20E+02	n	no	BSL
3-Nitroaniline	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	NA	NA		no	ND
4,6-Dinitro-2-methylphenol	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	3.65E+00	1.20E+00	n	no	ND
4-Aminobiphenyl	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	2.60E-03	c	no	ND
4-Bromophenyl-phenylether	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
4-Chloro-3-Methylphenol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	7.30E+04	1.10E+03	n	no	ND
4-Chloroaniline	0	-	8	0	2.00E+01	-	2.00E+03	–	-	–	–	1.46E+02	3.20E-01	c	no	ND
4-Chlorophenyl-phenylether	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
4-Nitroaniline	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	NA	3.30E+00	c*	no	ND
4-Nitrophenol	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	2.92E+02	NA		no	ND
4-Nitroquinoline-1-oxide	0	-	8	0	2.00E+01	-	2.00E+03	–	-	–	–	NA	NA		no	ND
4-Phenylenediamine	0	-	8	0	2.00E+03	-	2.00E+05	–	-	–	–	6.94E+03	3.00E+03	n	no	ND
5-Nitro-o-toluidine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.03E+00	7.00E+00	c*	no	ND
7,12-Dimethylbenz(a)anthracene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	8.60E-05	c	no	ND
a,a'-Dimethylphenethylamine	0	-	8	0	2.00E+03	-	2.00E+05	–	-	–	–	NA	NA		no	ND
Acenaphthene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.65E+02	4.00E+02	n	no	ND
Acenaphthylene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.19E+03	NA		no	ND
Acetophenone	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	4.16E-02	1.50E+03	n	no	ND
Aniline	0	-	8	0	2.00E+01	-	2.00E+03	–	-	–	–	1.17E+01	1.20E+01	c**	no	ND
Anthracene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	4.34E+01	1.30E+03	n	no	ND
Aramite	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	2.70E+00	c	no	ND
Benzo(a)anthracene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.17E-02	2.90E-02	c	no	ND
Benzo(a)pyrene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.00E-01	2.90E-03	c	no	ND
Benzo(b)fluoranthene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.17E-02	2.90E-02	c	no	ND
Benzo(g,h,i)perylene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.10E+03	NA		no	ND

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Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Benzo(k)fluoranthene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.17E-01	2.90E-01	c	no	ND
Benzyl Alcohol	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.10E+04	1.50E+03	n	no	ND
bis(2-Chloroethoxy)methane	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	4.70E+01	n	no	ND
bis(2-Chloroethyl)ether	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.20E-03	1.20E-02	c	no	ND
bis(2-Ethylhexyl)phthalate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	6.00E+00	7.10E-02	c*	no	ND
Butylbenzylphthalate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.69E+03	1.40E+01	c*	no	ND
Chrysene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.17E+00	2.90E+00	c	no	ND
Diallate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	4.60E-01	c	no	ND
Dibenzo(a,h)anthracene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.17E-03	2.90E-03	c	no	ND
Dibenzofuran	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.43E+01	5.80E+00	n	no	ND
Diethylphthalate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.92E+04	1.10E+04	n	no	ND
Dimethoate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	3.10E+00	n	no	ND
Dimethylphthalate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.65E+05	NA		no	ND
Di-n-Butylphthalate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.65E+03	6.70E+02	n	no	ND
Di-n-Octylphthalate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.00E+01	NA		no	ND
Dinoseb	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	7.00E+00	1.10E+01	n	no	ND
Disulfoton	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.46E+00	3.80E-01	n	no	ND
Ethyl Methanesulfonate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
Ethyl Parathion	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.19E+02	6.50E+01	n	no	ND
Famphur	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
Fluoranthene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.46E+03	6.30E+02	n	no	ND
Fluorene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.43E+02	2.20E+02	n	no	ND
Hexachlorobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.00E+00	4.20E-02	c	no	ND
Hexachlorobutadiene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	8.59E-01	2.60E-01	c*	no	ND
Hexachlorocyclopentadiene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	5.00E+01	2.20E+01	n	no	ND
Hexachloroethane	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	4.78E+00	7.90E-01	c**	no	ND
Hexachlorophene	0	-	8	0	4.90E+03	-	5.00E+05	–	-	–	–	1.10E+01	4.70E+00	n	no	ND
Hexachloropropene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
Indeno(1,2,3-cd)pyrene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.17E-02	2.90E-02	c	no	ND
Isophorone	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	7.05E+01	6.70E+01	c*	no	ND
Isosafrole	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
Methapyrilene	0	-	8	0	2.00E+03	-	2.00E+05	–	-	–	–	NA	NA		no	ND
Methyl Methanesulfonate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	6.80E-01	c	no	ND
Methyl Parathion	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.13E+00	3.40E+00	n	no	ND
Naphthalene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	6.20E+00	1.40E-01	c*	no	ND
Nitrobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.53E+00	1.20E-01	c*	no	ND
N-Nitrosodiethylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	4.46E-04	1.40E-04	c	no	ND
N-Nitrosodimethylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.31E-03	4.20E-04	c	no	ND
N-Nitroso-di-n-butylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.89E-03	2.40E-03	c	no	ND
N-Nitroso-di-n-propylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	9.57E-03	9.30E-03	c	no	ND
N-Nitrosodiphenylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.37E+01	1.00E+01	c	no	ND
N-Nitrosomethylethylamine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.04E-03	3.00E-03	c	no	ND
N-Nitrosomorpholine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	1.00E-02	c	no	ND
N-Nitrosopiperidine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	7.10E-03	c	no	ND

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Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
N-Nitrosopyrrolidine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	3.19E-02	3.20E-02	c	no	ND
o,o,o-Triethylphosphorothioate	4	-	8	50	9.90E+00	-	9.90E+01	2.20E+01	-	1.20E+04	MW-17(7/26/2011)	NA	NA		**YES**	NSL
o-Toluidine	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.79E-01	NA		no	ND
p-Dimethylaminoazobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	4.30E-03	c	no	ND
Pentachlorobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.92E+01	2.30E+00	n	no	ND
Pentachloronitrobenzene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	2.58E-01	1.00E-01	c	no	ND
Pentachlorophenol	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	1.00E+00	1.70E-01	c	no	ND
Phenacetin	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	3.00E+01	c	no	ND
Phenanthrene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.10E+03	NA		no	ND
Phenol	1	-	8	13	9.90E+00	-	1.00E+03	1.40E+02	-	1.40E+02	MW-23(7/26/2011)	2.19E+04	4.50E+03	n	no	BSL
Phorate	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	2.30E+00	n	no	ND
Pronamide	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	9.00E+02	n	no	ND
Pyrene	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	1.83E+02	8.70E+01	n	no	ND
Pyridine	0	-	8	0	4.90E+01	-	5.00E+03	–	-	–	–	3.65E+01	1.50E+01	n	no	ND
Safrole	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	6.20E-02	c	no	ND
Sulfotep	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	5.30E+00	n	no	ND
Thionazin	0	-	8	0	9.90E+00	-	1.00E+03	–	-	–	–	NA	NA		no	ND
Organochlorine Pesticides_Method 8081																
4,4'-DDD	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	2.79E-01	2.80E-01	c	no	ND
4,4'-DDE	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	1.97E-01	2.00E-01	c	no	ND
4,4'-DDT	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	1.97E-01	2.00E-01	c*	no	ND
4-Chlorobenzilate	0	-	8	0	4.90E-01	-	4.90E+00	–	-	–	–	2.48E-01	2.70E-01	c	no	ND
Aldrin	0	-	8	0	4.90E-02	-	4.90E-01	–	-	–	–	3.94E-03	2.10E-04	c	no	ND
Alpha-BHC	3	-	8	38	4.90E-02	-	5.10E-02	2.50E-01	-	1.50E+00	MW-17(7/26/2011)	1.06E-02	6.20E-03	c	**YES**	ASL
Beta-BHC	0	-	8	0	4.90E-02	-	4.90E-01	–	-	–	–	3.72E-02	2.20E-02	c	no	ND
Delta-BHC	0	-	8	0	4.90E-02	-	4.90E-01	–	-	–	–	NA	NA		no	ND
Dieldrin	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	4.19E-03	1.50E-03	c	no	ND
Endosulfan I	0	-	8	0	4.90E-02	-	4.90E-01	–	-	–	–	2.19E+02	NA		no	ND
Endosulfan II	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	2.19E+02	NA		no	ND
Endrin Ketone	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	NA	NA		no	ND
Endosulfan Sulfate	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	NA	NA		no	ND
Endrin	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	2.00E+00	1.70E+00	n	no	ND
Endrin Aldehyde	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	NA	NA		no	ND
Gamma-BHC (Lindane)	1	-	8	13	4.90E-02	-	4.90E-01	4.50E-01	-	4.50E-01	MW-08 (7/26/2011)	2.00E-01	3.60E-02	c*	**YES**	ASL
Heptachlor	0	-	8	0	4.90E-02	-	4.90E-01	–	-	–	–	4.00E-01	1.80E-03	c	no	ND
Heptachlor Epoxide	0	-	8	0	4.90E-02	-	4.90E-01	–	-	–	–	2.00E-01	3.30E-03	c*	no	ND
Isodrin	0	-	8	0	4.90E-02	-	4.90E-01	–	-	–	–	NA	NA		no	ND
Kepone	0	-	8	0	9.80E-01	-	9.90E+00	–	-	–	–	NA	3.00E-03	c	no	ND
Methoxychlor	0	-	8	0	9.80E-02	-	9.90E-01	–	-	–	–	4.00E+01	2.70E+01	n	no	ND
Technical Chlordane	0	-	8	0	4.90E-01	-	4.90E+00	–	-	–	–	2.00E+00	2.70E-02	c*	no	ND
Toxaphene	0	-	8	0	4.90E+00	-	4.90E+01	–	-	–	–	3.00E+00	1.30E-02	c	no	ND
Polychlorinated Biphenyls_Method 8082																
Aroclor-1016	0	-	8	0	9.80E-01	-	9.90E+00	–	-	–	–	9.57E-01	9.60E-01	c**	no	ND
Aroclor-1221	0	-	8	0	2.00E-06	-	2.00E-05	–	-	–	–	3.35E-02	4.30E-03	c	no	ND
Aroclor-1232	0	-	8	0	9.80E-07	-	9.90E-06	–	-	–	–	3.35E-02	4.30E-03	c	no	ND
Aroclor-1242	0	-	8	0	9.80E-07	-	9.90E-06	–	-	–	–	3.35E-02	3.40E-02	c	no	ND

See footnotes on the last page.

Table 2. Occurrence Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Aroclor-1248	0	-	8	0	9.80E-07	-	9.90E-06	–	-	–	–	3.35E-02	3.40E-02	c	no	ND
Aroclor-1254	0	-	8	0	9.80E-07	-	9.90E-06	–	-	–	–	3.35E-02	3.40E-02	c**	no	ND
Aroclor-1260	0	-	8	0	9.80E-07	-	9.90E-06	–	-	–	–	3.35E-02	3.40E-02	c	no	ND
Herbicides_Method 8151																
2,4,5-T	0	-	8	0	5.00E-07	-	5.10E-07	–	-	–	–	3.65E+02	1.20E+02	n	no	ND
2,4,5-TP	0	-	8	0	5.00E-07	-	5.10E-07	–	-	–	–	5.00E+01	8.40E+01	n	no	ND
2,4-D	1	-	8	13	5.00E-07	-	5.10E-07	1.00E-05	-	1.00E-05	MW-23(7/26/2011)	7.00E+01	1.30E+02	n	no	BSL
Dioxins and Furans_Method 8290																
2,3,7,8-TCDD	0	-	8	0	9.80E-06	-	1.00E-05	–	-	–	–	3.00E-05	5.20E-07	c*	no	ND
Total Metals_Method 6020																
Antimony	0	-	8	0	5.00E+00	-	5.00E+00	–	-	–	–	6.00E+00	6.00E+00	n	no	ND
Arsenic	6	-	8	75	2.50E+00	-	2.50E+00	2.90E+00	-	4.40E+01	MW-08 (7/26/2011)	5.00E+01	4.50E-02	c	**YES**	ASL
Barium	8	-	8	100	–	-	–	4.90E+01	-	2.60E+02	MW-08 (7/26/2011)	2.00E+03	2.90E+03	n	no	BSL
Beryllium	1	-	8	13	5.00E-01	-	5.00E-01	3.30E+00	-	3.30E+00	MW-23(7/26/2011)	4.00E+00	1.60E+01	n	no	BSL
Cadmium	0	-	8	0	5.00E-01	-	5.00E-01	–	-	–	–	5.00E+00	6.90E+00	n	no	ND
Chromium	1	-	8	13	5.00E+00	-	5.00E+00	5.00E+00	-	5.00E+00	MW-23(7/26/2011)	5.48E+04	1.60E+04	n	no	BSL
Cobalt	5	-	8	63	5.00E-01	-	5.00E-01	6.90E-01	-	4.20E+00	MW-02(7/27/2011)	2.19E+03	4.70E+00	n	no	BSL
Copper	0	-	8	0	5.00E+00	-	5.00E+00	–	-	–	–	1.30E+03	6.20E+02	n	no	ND
Lead	0	-	8	0	1.50E+00	-	1.50E+00	–	-	–	–	1.50E+01	NA		no	ND
Mercury	0	-	8	0	2.00E-01	-	2.00E-01	–	-	–	–	2.00E+00	6.30E-01	n	no	ND
Nickel	1	-	8	13	5.00E+00	-	5.00E+00	9.70E+00	-	9.70E+00	MW-12(7/27/2011)	7.30E+02	3.00E+02	n	no	BSL
Selenium	0	-	8	0	2.50E+00	-	2.50E+00	–	-	–	–	5.00E+01	7.80E+01	n	no	ND
Silver	0	-	8	0	1.00E+00	-	1.00E+00	–	-	–	–	1.83E+02	7.10E+01	n	no	ND
Thallium	0	-	8	0	1.00E+00	-	1.00E+00	–	-	–	–	2.00E+00	1.60E-01	n	no	ND
Tin	0	-	8	0	5.00E+00	-	5.00E+00	–	-	–	–	2.19E+04	9.30E+03	n	no	ND
Vanadium	1	-	8	13	1.00E+01	-	1.00E+01	1.60E+01	-	1.60E+01	MW-23(7/26/2011)	2.56E+02	7.80E+01	n	no	BSL
Zinc	3	-	8	38	2.00E+01	-	2.00E+01	3.40E+01	-	5.70E+01	MW-19(7/26/2011)	1.10E+04	4.70E+03	n	no	BSL
Other																
Cyanide	0	-	8	0	1.00E+01	-	1.00E+01	–	-	–	–	2.00E+02	9.30E+00	n	no	ND
Sulfide	4	-	8	50	1.00E+03	-	1.00E+03	1.10E+03	-	1.70E+04	MW-08 (7/26/2011)	NA	NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
BSL	Below screening level.	n	Noncancer.		
c	Cancer.	NA	Not available.	µg/L	Microgram per liter.
COPC	Constituent of Potential Concern.	NSL	No screening level.		

[a] All groundwater monitoring analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Target Remediation Goal (MDEQ 2002).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; and n = non-cancer.

[e] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[f] A constituent detected with a maximum concentration above the minimium of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 3. Occurrence Summary of Soil Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG [d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																			
1,1,1,2-Tetrachloroethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	2.20E+05	2.46E+04	1.90E+03	c	9.30E+03	c	no	ND
1,1,1-Trichloroethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.19E+06	1.19E+06	8.70E+06	ns	3.80E+07	ns	no	ND
1,1,2,2-Tetrachloroethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.00E+03	6.56E+02	5.60E+02	c	2.80E+03	c	no	ND
1,1,2-Trichloroethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.67E+03	1.09E+03	1.10E+03	c**	5.30E+03	c**	no	ND
1,1-Dichloroethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.16E+05	1.16E+05	3.30E+03	c	1.70E+04	c	no	ND
1,1-Dichloroethene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.18E+02	7.72E+01	2.40E+05	n	1.10E+06	n	no	ND
1,2,3-Trichloropropane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	8.18E+02	9.12E+01	5.00E+00	c	9.50E+01	c	no	ND
1,2-Dibromo-3-chloropropane	0	-	61	0	8.00E+00	-	1.90E+03	–	-	–	–	9.99E+01	9.99E+01	5.40E+00	c	6.90E+01	c	no	ND
1,2-Dibromoethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	6.73E+01	7.51E+00	3.40E+01	c	1.70E+02	c	no	ND
1,2-Dichloroethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	6.21E+02	4.06E+02	4.30E+02	c*	2.20E+03	c*	no	ND
1,2-Dichloropropane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	4.45E+02	4.45E+02	9.40E+02	c*	4.70E+03	c*	no	ND
2-Butanone	23	-	61	38	2.00E+01	-	4.80E+03	2.60E+00	-	4.70E+02	SS-AO-GP-21 (5-7)	8.45E+04	8.45E+04	2.80E+07	n	2.00E+08	nms	no	BSL
2-Chloro-1,3-butadiene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	4.08E+06	1.56E+06	9.40E+00	c	4.70E+01	c	no	ND
2-Hexanone	0	-	61	0	2.00E+01	-	4.80E+03	–	-	–	–	8.18E+07	3.13E+06	2.10E+05	n	1.40E+06	n	no	ND
3-Chloropropene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	NA	NA	NA		NA		no	ND
4-Methyl-2-pentanone	0	-	61	0	2.00E+01	-	4.80E+03	–	-	–	–	1.63E+08	6.26E+06	5.30E+06	ns	5.30E+07	ns	no	ND
Acetone	29	-	56	52	4.00E+01	-	9.50E+03	1.00E+01	-	3.10E+02	SS-AO-SS-06 (0-1)	1.04E+08	7.82E+06	6.10E+07	n	6.30E+08	nms	no	BSL
Acetonitrile	0	-	61	0	1.60E+02	-	3.80E+04	–	-	–	–	1.11E+05	1.11E+05	8.70E+05	n	3.70E+06	n	no	ND
Acrolein	0	-	61	0	8.00E+01	-	1.90E+04	–	-	–	–	4.09E+07	1.56E+06	1.50E+02	n	6.50E+02	n	no	ND
Acrylonitrile	0	-	61	0	8.00E+01	-	1.90E+04	–	-	–	–	1.06E+04	1.18E+03	2.40E+02	c*	1.20E+03	c*	no	ND
Benzene	11	-	61	18	4.00E+00	-	8.10E+00	8.30E-01	-	3.50E+02	SS-AO-GP-28 (24-26)	1.36E+03	8.87E+02	1.10E+03	c*	5.40E+03	c*	no	BSL
Bromodichloromethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.89E+03	1.24E+03	2.70E+02	c	1.40E+03	c	no	ND
Bromoform	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	9.01E+04	5.88E+04	6.20E+04	c*	2.20E+05	c*	no	ND
Bromomethane	2	-	61	3	4.00E+00	-	9.50E+02	1.90E+00	-	2.00E+00	SS-AO-SS-02 (0-1)	2.97E+03	2.97E+03	7.30E+03	n	3.20E+04	n	no	BSL
Carbon Disulfide	2	-	61	3	4.00E+00	-	9.50E+02	1.10E+00	-	1.60E+00	SS-AO-GP-03 (2-4)	7.97E+03	7.97E+03	8.20E+05	ns	3.70E+06	ns	no	BSL
Carbon Tetrachloride	3	-	61	5	4.00E+00	-	1.80E+02	3.20E+01	-	2.40E+04	SS-AO-GP-28 (24-26)	5.69E+02	3.71E+02	6.10E+02	c	3.00E+03	c	**YES**	ASL
Chlorobenzene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.19E+03	1.19E+03	2.90E+05	n	1.40E+06	ns	no	ND
Chloroethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.97E+06	2.20E+05	1.50E+07	ns	6.10E+07	ns	no	ND
Chloroform	3	-	61	5	4.00E+00	-	1.80E+02	5.40E+00	-	3.50E+03	SS-AO-GP-28 (24-26)	4.78E+02	3.12E+02	2.90E+02	c	1.50E+03	c	**YES**	ASL
Chloromethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	4.40E+05	4.91E+04	1.20E+05	n	5.00E+05	n	no	ND
cis-1,3-Dichloropropene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	3.52E+02	3.52E+02	1.70E+03	c	8.30E+03	c	no	ND
Dibromochloromethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	6.81E+04	7.60E+03	6.80E+02	c	3.30E+03	c	no	ND
Dibromomethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	2.04E+07	7.82E+05	2.50E+04	n	1.10E+05	n	no	ND
Dichlorodifluoromethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	4.09E+08	1.56E+07	9.40E+04	n	4.00E+05	n	no	ND
Ethyl Methacrylate	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.84E+07	7.04E+06	1.50E+06	ns	7.50E+06	ns	no	ND
Ethylbenzene	2	-	61	3	4.00E+00	-	9.50E+02	2.40E+02	-	5.30E+02	SS-AO-GP-21 (2-4)	3.95E+05	3.95E+05	5.40E+03	c	2.70E+04	c	no	BSL

See footnotes on the last page.

Table 3. Occurrence Summary of Soil Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG [d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Iodomethane	2	-	61	3	4.00E+00	-	9.50E+02	3.00E+00	-	7.00E+00	S-AO-GP-28 (0-2)	NA	NA	NA		NA		**YES**	NSL
Isobutanol	0	-	61	0	1.60E+02	-	3.80E+04	–	-	–	–	6.13E+08	2.35E+07	1.80E+07	n	1.80E+08	nm	no	ND
Methacrylonitrile	0	-	61	0	8.00E+01	-	1.90E+04	–	-	–	–	2.04E+05	7.82E+03	3.20E+03	n	1.80E+04	n	no	ND
Methyl Methacrylate	0	-	61	0	8.00E+00	-	1.90E+03	–	-	–	–	1.63E+07	1.63E+07	4.80E+06	ns	2.10E+07	ns	no	ND
Methylene Chloride	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	2.19E+04	1.43E+04	5.60E+04	c**	9.60E+05	c**	no	ND
Pentachloroethane	0	-	61	0	2.00E+01	-	4.80E+03	–	-	–	–	NA	NA	5.40E+03	c	1.90E+04	c	no	ND
Propionitrile	0	-	61	0	8.00E+01	-	1.90E+04	–	-	–	–	NA	NA	NA		NA		no	ND
Styrene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	3.84E+05	3.84E+05	6.30E+06	ns	3.60E+07	ns	no	ND
Tetrachloroethene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.82E+04	1.19E+04	2.20E+04	c**	1.10E+05	c**	no	ND
Toluene	10	-	61	16	4.00E+00	-	9.50E+02	1.20E+00	-	4.40E+02	SS-AO-GP-21 (2-4)	3.80E+04	3.80E+04	5.00E+06	ns	4.50E+07	ns	no	BSL
trans-1,2-Dichloroethene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	3.07E+06	1.56E+06	1.50E+05	n	6.90E+05	n	no	ND
trans-1,3-Dichloropropene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	3.52E+02	3.52E+02	1.70E+03	c	8.30E+03	c	no	ND
trans-1,4-Dichloro-2-butene	0	-	61	0	8.00E+00	-	1.90E+03	–	-	–	–	NA	NA	6.90E+00	c	3.50E+01	c	no	ND
Trichloroethene	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	7.92E+03	5.17E+03	9.10E+02	c**	6.40E+03	c**	no	ND
Trichlorofluoromethane	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	1.43E+08	2.35E+07	7.90E+05	n	3.40E+06	ns	no	ND
Vinyl Acetate	0	-	61	0	8.00E+00	-	1.90E+03	–	-	–	–	9.13E+03	9.13E+03	9.70E+05	n	4.10E+06	ns	no	ND
Vinyl Chloride	0	-	61	0	4.00E+00	-	9.50E+02	–	-	–	–	9.39E+02	4.26E+02	6.00E+01	c	1.70E+03	c	no	ND
Xylenes (total)	2	-	61	3	8.00E+00	-	1.90E+03	6.40E+02	-	2.70E+03	SS-AO-GP-21 (2-4)	3.18E+05	3.18E+05	6.30E+05	ns	2.70E+06	ns	no	BSL
Semi Volatile Organic Compounds_Method 8270																			
1,1'-Biphenyl	9	-	61	15	3.70E+01	-	4.10E+02	8.30E+00	-	1.10E+03	SS-AO-GP-28 (24-26)	1.02E+07	3.91E+06	5.10E+04	n	2.10E+05	n	no	BSL
1,2,4,5-Tetrachlorobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	6.13E+05	2.35E+04	1.80E+04	n	1.80E+05	n	no	ND
1,2,4-Trichlorobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	8.24E+05	7.82E+05	2.20E+04	c**	9.90E+04	c**	no	ND
1,2-Dichlorobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.79E+05	2.79E+05	1.90E+06	ns	9.80E+06	ns	no	ND
1,3,5-Trinitrobenzene	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	1.02E+05	1.02E+05	2.20E+06	n	2.70E+07	n	no	ND
1,3-Dichlorobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.84E+06	7.04E+04	NA		NA		no	ND
1,3-Dinitrobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.04E+05	7.82E+03	6.10E+03	n	6.20E+04	n	no	ND
1,4-Dichlorobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.38E+05	2.66E+04	2.40E+03	c	1.20E+04	c	no	ND
1,4-Dioxane	0	-	60	0	3.60E+01	-	4.10E+02	–	-	–	–	5.20E+05	5.81E+04	4.90E+03	c	1.70E+04	c	no	ND
1,4-Naphthoquinone	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
1-Naphthylamine	0	-	59	0	7.10E+01	-	8.30E+02	–	-	–	–	NA	NA	NA		NA		no	ND
2,2'-Oxybis(1-Chloropropane)	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	9.08E+03	5.93E+03	4.60E+03	c	2.20E+04	c	no	ND
2,3,4,6-Tetrachlorophenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	6.13E+07	2.35E+06	1.80E+06	n	1.80E+07	n	no	ND
2,4,5-Trichlorophenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.04E+08	7.82E+06	6.10E+06	n	6.20E+07	n	no	ND
2,4,6-Trichlorophenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	3.14E+05	5.81E+04	4.40E+04	c**	1.60E+05	c**	no	ND
2,4-Dichlorophenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	6.13E+05	2.35E+05	1.80E+05	n	1.80E+06	n	no	ND
2,4-Dimethylphenol	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	4.08E+07	1.56E+06	1.20E+06	n	1.20E+07	n	no	ND
2,4-Dinitrophenol	0	-	61	0	3.60E+02	-	4.10E+03	–	-	–	–	4.08E+05	1.56E+05	1.20E+05	n	1.20E+06	n	no	ND
2,4-Dinitrotoluene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	4.08E+05	1.56E+05	1.60E+03	c*	5.50E+03	c	no	ND
2,6-Dichlorophenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
2,6-Dinitrotoluene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.04E+06	7.82E+04	6.10E+04	n	6.20E+05	n	no	ND
2-Acetylaminofluorene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	1.30E+02	c	4.50E+02	c	no	ND
2-Chloronaphthalene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.64E+08	6.26E+06	6.30E+06	ns	8.20E+07	ns	no	ND

See footnotes on the last page.

Table 3. Occurrence Summary of Soil Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG [d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
2-Chlorophenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.02E+07	3.91E+05	3.90E+05	n	5.10E+06	n	no	ND
2-Methylnaphthalene	8	-	61	13	7.20E+00	-	8.40E+01	7.80E+00	-	5.10E+02	SS-AO-GP-21 (5-7)	4.09E+07	1.56E+06	2.30E+05	n	2.20E+06	ns	no	BSL
2-Methylphenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.02E+08	3.91E+06	3.10E+06	n	3.10E+07	n	no	ND
2-Naphthylamine	0	-	60	0	7.10E+01	-	8.30E+02	–	-	–	–	NA	NA	2.70E+02	c	9.60E+02	c	no	ND
2-Nitroaniline	0	-	61	0	1.80E+02	-	2.10E+03	–	-	–	–	4.92E+02	4.92E+02	6.10E+05	n	6.00E+06	n	no	ND
2-Nitrophenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
2-Picoline	0	-	59	0	7.10E+01	-	8.30E+02	–	-	–	–	NA	NA	NA		NA		no	ND
3,3'-Dichlorobenzidine	0	-	60	0	7.10E+01	-	8.30E+02	–	-	–	–	1.27E+04	1.42E+03	1.10E+03	c	3.80E+03	c	no	ND
3,3'-Dimethylbenzidine	0	-	60	0	7.10E+01	-	8.30E+02	–	-	–	–	6.22E+02	6.94E+01	4.40E+01	c	1.60E+02	c	no	ND
3-Methylcholanthrene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	5.20E+00	c	7.80E+01	c	no	ND
3-Nitroaniline	0	-	61	0	1.80E+02	-	2.10E+03	–	-	–	–	NA	NA	NA		NA		no	ND
4,6-Dinitro-2-methylphenol	0	-	61	0	1.80E+02	-	2.10E+03	–	-	–	–	2.04E+05	7.82E+03	4.90E+03	n	4.90E+04	n	no	ND
4-Aminobiphenyl	0	-	60	0	7.10E+01	-	8.30E+02	–	-	–	–	NA	NA	2.30E+01	c	8.20E+01	c	no	ND
4-Bromophenyl-phenylether	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
4-Chloro-3-Methylphenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	4.08E+08	1.56E+08	6.10E+06	n	6.20E+07	n	no	ND
4-Chloroaniline	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	8.17E+05	3.13E+05	2.40E+03	c	8.60E+03	c	no	ND
4-Chlorophenyl-phenylether	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
4-Methylphenol	1	-	61	2	3.60E+01	-	4.10E+02	2.10E+01	-	2.10E+01	SS-AO-SS-02 (0-1)	1.02E+07	3.91E+05	6.10E+06	n	6.20E+07	n	no	BSL
4-Nitroaniline	0	-	61	0	1.80E+02	-	2.10E+03	–	-	–	–	NA	NA	2.40E+04	c*	8.60E+04	c*	no	ND
4-Nitrophenol	0	-	61	0	1.80E+02	-	2.10E+03	–	-	–	–	1.64E+07	6.26E+05	NA		NA		no	ND
4-Nitroquinoline-1-oxide	0	-	61	0	3.60E+02	-	4.10E+03	–	-	–	–	NA	NA	NA		NA		no	ND
4-Phenylenediamine	0	-	44	0	8.90E+02	-	1.00E+04	–	-	–	–	3.88E+08	1.49E+07	1.20E+07	n	1.20E+08	nm	no	ND
5-Nitro-o-toluidine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.73E+05	1.94E+04	5.40E+04	c*	1.90E+05	c*	no	ND
7,12-Dimethylbenz(a)anthracene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	4.30E-01	c	6.20E+00	c	no	ND
a,a'-Dimethylphenethylamine	0	-	59	0	7.20E+03	-	8.40E+04	–	-	–	–	NA	NA	NA		NA		no	ND
Acenaphthene	6	-	61	10	7.20E+00	-	8.40E+01	4.20E+00	-	5.30E+01	SS-AO-GP-19 (24-26)	1.23E+08	4.69E+06	3.40E+06	n	3.30E+07	n	no	BSL
Acenaphthylene	0	-	61	0	7.20E+00	-	8.40E+01	–	-	–	–	1.23E+08	4.69E+06	NA		NA		no	ND
Acetophenone	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.63E+06	2.63E+06	7.80E+06	ns	1.00E+08	nms	no	ND
Aniline	3	-	61	5	7.10E+01	-	8.30E+02	1.30E+01	-	1.50E+01	SS-AO-GP-04 (10.75-12),SS-AO-GP-32 (0-2)	1.00E+06	1.12E+05	8.50E+04	c**	3.00E+05	c*	no	BSL
Anthracene	5	-	61	8	7.20E+00	-	8.40E+01	3.90E+00	-	3.70E+01	SS-AO-GP-19 (24-26)	6.13E+08	2.35E+07	1.70E+07	n	1.70E+08	nm	no	BSL
Aramite	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	NA	NA	1.90E+04	c	6.90E+04	c	no	ND
Benzo(a)anthracene	5	-	61	8	7.20E+00	-	8.30E+01	4.40E+00	-	1.30E+02	SS-AO-SS-08 (0-1)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	no	BSL
Benzo(a)pyrene	7	-	61	12	7.20E+00	-	8.30E+01	4.50E+00	-	1.60E+02	SS-AO-SS-08 (0-1)	7.84E+02	8.75E+01	1.50E+01	c	2.10E+02	c	**YES**	ASL
Benzo(b)fluoranthene	6	-	61	10	7.20E+00	-	8.30E+01	4.80E+00	-	3.20E+02	SS-AO-SS-08 (0-1)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	**YES**	ASL
Benzo(g,h,i)perylene	2	-	61	3	7.20E+00	-	8.30E+01	4.70E+01	-	8.30E+01	SS-AO-SS-08 (0-1)	6.13E+07	2.35E+06	NA		NA		no	BSL
Benzo(k)fluoranthene	7	-	61	12	7.20E+00	-	8.40E+01	3.60E+00	-	1.00E+02	SS-AO-SS-03 (0-1)	7.84E+04	8.75E+03	1.50E+03	c	2.10E+04	c	no	BSL
Benzyl Alcohol	8	-	61	13	3.60E+01	-	4.10E+02	7.90E+00	-	2.10E+02	SS-AO-GP-31 (0-2)	2.04E+08	2.35E+07	6.10E+06	n	6.20E+07	n	no	BSL
bis(2-Chloroethoxy)methane	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	1.80E+05	n	1.80E+06	n	no	ND
bis(2-Chloroethyl)ether	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	4.19E+02	2.73E+02	2.10E+02	c	1.00E+03	c	no	ND
bis(2-Ethylhexyl)phthalate	26	-	57	46	9.70E+00	-	8.20E+02	7.00E+00	-	6.90E+02	SS-AO-GP-24 (0-2)	4.09E+05	4.56E+04	3.50E+04	c*	1.20E+05	c	no	BSL
Butylbenzylphthalate	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	9.28E+05	9.28E+05	2.60E+05	c*	9.10E+05	c	no	ND
Chrysene	10	-	61	16	7.20E+00	-	8.30E+01	4.80E+00	-	1.60E+02	SS-AO-SS-08 (0-1)	7.84E+05	8.75E+04	1.50E+04	c	2.10E+05	c	no	BSL
Diallate	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	8.00E+03	c	2.80E+04	c	no	ND
Dibenzo(a,h)anthracene	0	-	61	0	7.20E+00	-	8.40E+01	–	-	–	–	7.84E+02	8.75E+01	1.50E+01	c	2.10E+02	c	no	ND
Dibenzofuran	4	-	61	7	3.60E+01	-	4.10E+02	2.20E+01	-	6.90E+01	SS-AO-GP-19 (24-26)	8.18E+06	3.13E+05	7.80E+04	n	1.00E+06	ns	no	BSL
Diethylphthalate	3	-	61	5	3.60E+01	-	4.10E+02	9.90E+00	-	1.70E+01	SS-AO-GP-27 (8-10)	1.97E+06	1.97E+06	4.90E+07	n	4.90E+08	nm	no	BSL
Dimethoate	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	1.20E+04	n	1.20E+05	n	no	ND

See footnotes on the last page.

Table 3. Occurrence Summary of Soil Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG [d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)		Max (µg/kg)	Min (µg/kg)		Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Dimethylphthalate	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.04E+10	7.82E+08	NA		NA		no	ND
Di-n-Butylphthalate	2	-	61	3	1.80E+02	-	2.10E+03	2.30E+01	-	2.40E+01	SS-AO-GP-29 (24-26)	2.28E+06	2.28E+06	6.10E+06	n	6.20E+07	n	no	BSL
Di-n-Octylphthalate	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	4.08E+06	1.56E+06	NA		NA		no	ND
Dinoseb	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	2.04E+05	7.82E+04	6.10E+04	n	6.20E+05	n	no	ND
Diphenyl Ether	13	-	61	21	3.60E+01	-	4.10E+02	1.50E+01	-	3.70E+03	SS-AO-GP-28 (24-26)	NA	NA	NA		NA		**YES**	NSL
Disulfoton	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	8.17E+03	3.13E+03	2.40E+03	n	2.50E+04	n	no	ND
Ethyl Methanesulfonate	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Ethyl Parathion	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.23E+06	4.69E+05	3.70E+05	n	3.70E+06	n	no	ND
Famphur	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Fluoranthene	20	-	61	33	7.20E+00	-	8.30E+01	4.00E+00	-	2.20E+02	SS-AO-SS-08 (0-1)	8.17E+07	3.13E+06	2.30E+06	n	2.20E+07	n	no	BSL
Fluorene	6	-	61	10	7.20E+00	-	8.40E+01	4.70E+00	-	6.60E+01	SS-AO-GP-19 (24-26)	8.17E+07	3.13E+06	2.30E+06	n	2.20E+07	n	no	BSL
Hexachlorobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.65E+03	3.99E+02	3.00E+02	c	1.10E+03	c	no	ND
Hexachlorobutadiene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.35E+02	8.82E+01	6.20E+03	c**	2.20E+04	c*	no	ND
Hexachlorocyclopentadiene	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	9.51E+02	9.51E+02	3.70E+05	n	3.70E+06	n	no	ND
Hexachloroethane	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	9.33E+04	4.56E+04	1.20E+04	c**	4.30E+04	c*	no	ND
Hexachlorophene	0	-	51	0	1.80E+04	-	2.10E+05	–	-	–	–	6.13E+05	2.35E+04	1.80E+04	n	1.80E+05	n	no	ND
Hexachloropropene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Indeno(1,2,3-cd)pyrene	1	-	61	2	7.20E+00	-	8.30E+01	6.80E+01	-	6.80E+01	SS-AO-SS-08 (0-1)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	no	BSL
Isophorone	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	4.57E+06	6.72E+05	5.10E+05	c*	1.80E+06	c*	no	ND
Isosafrole	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Methapyrilene	0	-	59	0	7.20E+03	-	8.40E+04	–	-	–	–	NA	NA	NA		NA		no	ND
Methyl Methanesulfonate	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	4.90E+03	c	1.70E+04	c	no	ND
Methyl Parathion	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	4.08E+05	1.96E+04	1.50E+04	n	1.50E+05	n	no	ND
Naphthalene	8	-	61	13	7.20E+00	-	8.40E+01	4.80E+00	-	6.80E+02	SS-AO-GP-21 (5-7)	2.47E+05	1.94E+05	3.60E+03	c*	1.80E+04	c*	no	BSL
Nitrobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	8.41E+03	8.41E+03	4.80E+03	c*	2.40E+04	c*	no	ND
N-Nitrosodiethylamine	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	3.82E+01	4.26E+00	7.70E-01	c	1.10E+01	c	no	ND
N-Nitrosodimethylamine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.12E+02	1.25E+01	2.30E+00	c	3.40E+01	c	no	ND
N-Nitroso-di-n-butylamine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.06E+03	1.18E+02	8.70E+01	c	4.00E+02	c	no	ND
N-Nitroso-di-n-propylamine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	8.18E+02	9.12E+01	6.90E+01	c	2.50E+02	c	no	ND
N-Nitrosodiphenylamine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.17E+06	1.30E+05	9.90E+04	c	3.50E+05	c	no	ND
N-Nitrosomethylethylamine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.60E+02	2.90E+01	2.20E+01	c	7.80E+01	c	no	ND
N-Nitrosomorpholine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	7.30E+01	c	2.60E+02	c	no	ND
N-Nitrosopiperidine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	5.20E+01	c	1.80E+02	c	no	ND
N-Nitrosopyrrolidine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.73E+03	3.04E+02	2.30E+02	c	8.20E+02	c	no	ND
o,o,o-Triethylphosphorothioate	0	-	61	0	7.10E+01	-	8.30E+02	–	-	–	–	NA	NA	NA		NA		no	ND
o-Toluidine	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.38E+04	2.66E+03	NA		NA		no	ND
p-Dimethylaminoazobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	1.10E+02	c	3.70E+02	c	no	ND
Pentachlorobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.63E+06	6.26E+04	4.90E+04	n	4.90E+05	n	no	ND
Pentachloronitrobenzene	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	2.20E+04	2.46E+03	1.90E+03	c*	6.60E+03	c	no	ND
Pentachlorophenol	0	-	61	0	1.80E+02	-	2.10E+03	–	-	–	–	2.38E+04	2.66E+03	8.90E+02	c	2.70E+03	c	no	ND
Phenacetin	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	2.20E+05	c	7.80E+05	c	no	ND
Phenanthrene	20	-	61	33	7.20E+00	-	8.30E+01	2.70E+00	-	1.10E+02	SS-AO-GP-19 (24-26)	6.13E+07	2.35E+06	NA		NA		no	BSL
Phenol	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	1.23E+08	4.69E+07	1.80E+07	n	1.80E+08	nm	no	ND
Phorate	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	1.20E+04	n	1.20E+05	n	no	ND
Pronamide	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	4.60E+06	n	4.60E+07	n	no	ND
Pyrene	13	-	61	21	7.20E+00	-	8.30E+01	4.20E+00	-	2.70E+02	SS-AO-SS-08 (0-1)	6.13E+07	2.35E+06	1.70E+06	n	1.70E+07	n	no	BSL
Pyridine	0	-	60	0	3.60E+01	-	4.10E+02	–	-	–	–	2.04E+06	7.82E+04	7.80E+04	n	1.00E+06	n	no	ND

See footnotes on the last page.

Table 3. Occurrence Summary of Soil Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG [d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Safrole	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	5.20E+02	c	7.80E+03	c	no	ND
Sulfotep	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	3.10E+04	n	3.10E+05	n	no	ND
Thionazin	0	-	61	0	3.60E+01	-	4.10E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Organochlorine Pesticides_Method 8081																			
4,4'-DDD	4	-	61	7	3.50E+00	-	2.10E+01	9.40E-01	-	1.80E+02	SS-AO-GP-31 (0-2)	2.38E+04	2.66E+03	2.00E+03	c	7.20E+03	c	no	BSL
4,4'-DDE	16	-	61	26	3.50E+00	-	4.70E+00	6.20E-01	-	4.50E+02	SS-AO-GP-31 (0-2)	1.68E+04	1.88E+03	1.40E+03	c	5.10E+03	c	no	BSL
4,4'-DDT	16	-	61	26	3.50E+00	-	4.70E+00	1.20E+00	-	1.90E+02	SS-AO-SS-08 (0-1)	1.68E+04	1.88E+03	1.70E+03	c*	7.00E+03	c*	no	BSL
4-Chlorobenzilate	0	-	61	0	1.80E+01	-	9.50E+01	–	-	–	–	2.12E+04	2.37E+03	4.40E+03	c	1.60E+04	c	no	ND
Aldrin	1	-	61	2	1.80E+00	-	1.10E+01	1.80E+00	-	1.80E+00	SS-AO-SS-03 (0-1)	3.37E+02	3.76E+01	2.90E+01	c*	1.00E+02	c	no	BSL
Alpha-BHC	0	-	61	0	1.80E+00	-	9.50E+00	–	-	–	–	9.08E+02	1.01E+02	7.70E+01	c	2.70E+02	c	no	ND
Beta-BHC	0	-	61	0	1.80E+00	-	1.10E+01	–	-	–	–	3.18E+03	3.55E+02	2.70E+02	c	9.60E+02	c	no	ND
Delta-BHC	1	-	61	2	1.80E+00	-	1.10E+01	2.80E-01	-	2.80E-01	SS-AO-GP-20 (0-2)	NA	NA	NA		NA		**YES**	NSL
Dieldrin	5	-	61	8	1.00E+00	-	4.70E+00	1.20E+00	-	4.20E+01	SS-AO-SS-03 (0-1)	3.58E+02	3.99E+01	3.00E+01	c	1.10E+02	c	**YES**	ASL
Endosulfan I	2	-	61	3	1.80E+00	-	1.10E+01	2.10E-01	-	3.30E-01	SS-AO-GP-21 (2-4)	1.23E+06	4.69E+05	NA		NA		no	BSL
Endosulfan II	0	-	61	0	3.50E+00	-	2.10E+01	–	-	–	–	1.23E+06	4.69E+05	NA		NA		no	ND
Endosulfan Sulfate	0	-	61	0	3.50E+00	-	2.10E+01	–	-	–	–	NA	NA	NA		NA		no	ND
Endrin	0	-	61	0	3.50E+00	-	4.70E+00	–	-	–	–	6.13E+04	2.35E+04	1.80E+04	n	1.80E+05	n	no	ND
Endrin Aldehyde	0	-	61	0	3.50E+00	-	2.10E+01	–	-	–	–	NA	NA	NA		NA		no	ND
Gamma-BHC (Lindane)	0	-	61	0	1.80E+00	-	9.50E+00	–	-	–	–	4.40E+03	4.91E+02	5.20E+02	c*	2.10E+03	c	no	ND
Heptachlor	0	-	61	0	1.80E+00	-	1.10E+01	–	-	–	–	1.95E+02	1.27E+02	1.10E+02	c	3.80E+02	c	no	ND
Heptachlor Epoxide	1	-	61	2	1.80E+00	-	9.50E+00	3.30E+00	-	3.30E+00	SS-AO-SS-03 (0-1)	6.29E+02	7.02E+01	5.30E+01	c*	1.90E+02	c*	no	BSL
Isodrin	0	-	61	0	3.50E+00	-	2.10E+01	–	-	–	–	NA	NA	NA		NA		no	ND
Kepone	0	-	61	0	1.80E+02	-	2.40E+02	–	-	–	–	NA	NA	4.90E+01	c	1.70E+02	c	no	ND
Methoxychlor	0	-	61	0	3.50E+00	-	2.10E+01	–	-	–	–	1.02E+06	3.91E+05	3.10E+05	n	3.10E+06	n	no	ND
Technical Chlordane	0	-	61	0	1.80E+01	-	1.10E+02	–	-	–	–	1.23E+04	1.82E+03	1.60E+03	c*	6.50E+03	c*	no	ND
Toxaphene	5	-	61	8	1.80E+02	-	2.40E+02	1.60E+02	-	1.40E+03	SS-AO-SS-06 (0-1)	5.20E+03	5.81E+02	4.40E+02	c	1.60E+03	c	**YES**	ASL
Polychlorinated Biphenyls_Method 8082																			
Aroclor-1016	0	-	61	0	3.50E+01	-	2.10E+02	–	-	–	–	1.00E+04	1.00E+03	3.90E+03	n	2.10E+04	c**	no	ND
Aroclor-1221	0	-	61	0	7.20E+01	-	3.80E+02	–	-	–	–	1.00E+04	1.00E+03	1.40E+02	c	5.40E+02	c	no	ND
Aroclor-1232	0	-	61	0	3.50E+01	-	2.10E+02	–	-	–	–	1.00E+04	1.00E+03	1.40E+02	c	5.40E+02	c	no	ND
Aroclor-1242	0	-	61	0	3.50E+01	-	4.70E+01	–	-	–	–	1.00E+04	1.00E+03	2.20E+02	c	7.40E+02	c	no	ND
Aroclor-1248	0	-	61	0	3.50E+01	-	4.70E+01	–	-	–	–	1.00E+04	1.00E+03	2.20E+02	c	7.40E+02	c	no	ND
Aroclor-1254	1	-	61	2	3.50E+01	-	2.10E+02	4.10E+02	-	4.10E+02	SS-AO-SS-03 (0-1)	1.00E+04	1.00E+03	2.20E+02	c**	7.40E+02	c*	**YES**	ASL
Aroclor-1260	0	-	61	0	3.50E+01	-	2.10E+02	–	-	–	–	1.00E+04	1.00E+03	2.20E+02	c	7.40E+02	c	no	ND
Herbicides_Method 8151																			
2,4,5-T	2	-	61	3	8.80E+00	-	1.20E+01	3.30E+00	-	6.90E+00	SS-AO-GP-27 (0-2)	2.04E+07	7.82E+05	6.10E+05	n	6.20E+06	n	no	BSL
2,4,5-TP	0	-	61	0	8.80E+00	-	1.20E+01	–	-	–	–	1.63E+06	6.26E+05	4.90E+05	n	4.90E+06	n	no	ND
2,4-D	0	-	61	0	8.80E+00	-	1.20E+01	–	-	–	–	2.04E+06	7.82E+05	6.90E+05	n	7.70E+06	n	no	ND
Dioxathion/Dioxenethion_Method 8310																			
cis-Dioxathion	27	-	61	44	5.03E-01	-	8.55E+01	2.94E+01	-	1.93E+03	SS-AO-GP-21 (5-7)	3.07E+06	1.17E+05	NA		NA		no	BSL
Dioxenethion	41	-	61	67	4.99E-01	-	1.71E+01	2.30E+01	-	1.99E+03	SS-AO-GP-33 (0-2)	NA	NA	NA		NA		**YES**	NSL
trans-Dioxathion	21	-	61	34	4.99E-01	-	8.57E+01	7.28E+01	-	8.76E+02	SS-AO-GP-21 (5-7)	3.07E+06	1.17E+05	NA		NA		no	BSL
Dioxins and Furans_Method 8290																			
1,2,3,4,6,7,8-HpCDD	57	-	61	93	6.20E-03	-	7.60E-03	7.70E-04	-	2.80E+00	SS-AO-SS-08 (0-1)	3.82E+00	4.26E-01	NA		NA		**YES**	ASL
1,2,3,4,6,7,8-HpCDF	29	-	61	48	5.40E-03	-	7.60E-03	1.30E-04	-	5.10E-01	SS-AO-SS-08 (0-1)	3.82E+00	4.26E-01	NA		NA		**YES**	ASL

See footnotes on the last page.

Table 3. Occurrence Summary of Soil Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG [d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
1,2,3,4,7,8,9-HpCDF	16	-	61	26	5.40E-03	-	7.60E-03	2.20E-04	-	4.30E-02	SS-AO-SS-08 (0-1)	3.82E+00	4.26E-01	NA		NA		no	BSL
1,2,3,4,7,8-HxCDD	30	-	61	49	5.40E-03	-	7.60E-03	1.40E-04	-	1.80E-02	SS-AO-SS-08 (0-1)	3.82E-01	4.26E-02	NA		NA		no	BSL
1,2,3,4,7,8-HxCDF	21	-	61	34	5.40E-03	-	7.60E-03	1.50E-04	-	1.60E-02	SS-AO-SS-08 (0-1)	3.82E-01	4.26E-02	NA		NA		no	BSL
1,2,3,6,7,8-HxCDD	39	-	61	64	5.40E-03	-	7.60E-03	1.60E-04	-	7.80E-02	SS-AO-SS-08 (0-1)	9.23E-01	1.03E-01	NA		NA		no	BSL
1,2,3,6,7,8-HxCDF	23	-	61	38	5.40E-03	-	7.60E-03	6.90E-05	-	8.30E-02	SS-AO-SS-08 (0-1)	3.82E-01	4.26E-02	NA		NA		**YES**	ASL
1,2,3,7,8,9-HxCDD	50	-	61	82	5.60E-03	-	7.60E-03	2.90E-04	-	6.30E-02	SS-AO-GP-01 (6-8)	9.23E-01	1.03E-01	NA		NA		no	BSL
1,2,3,7,8,9-HxCDF	3	-	61	5	5.40E-03	-	3.10E-02	2.10E-04	-	5.30E-04	SS-AO-SS-07 (0-1)	3.82E-01	4.26E-02	NA		NA		no	BSL
1,2,3,7,8-PeCDD	23	-	61	38	5.40E-03	-	7.60E-03	2.60E-04	-	5.50E-03	SS-AO-SS-08 (0-1)	7.63E-02	8.52E-03	NA		NA		no	BSL
1,2,3,7,8-PeCDF	7	-	61	12	5.40E-03	-	3.10E-02	2.50E-04	-	1.60E-03	SS-AO-SS-07 (0-1)	7.63E-01	8.52E-02	NA		NA		no	BSL
2,3,4,6,7,8-HxCDF	17	-	61	28	5.40E-03	-	7.60E-03	1.80E-04	-	8.20E-03	SS-AO-SS-08 (0-1)	3.82E-01	4.26E-02	NA		NA		no	BSL
2,3,4,7,8-PeCDF	12	-	61	20	5.40E-03	-	3.10E-02	1.10E-04	-	2.30E-03	SS-AO-SS-07 (0-1)	7.63E-01	8.52E-03	NA		NA		no	BSL
2,3,7,8-TCDD	2	-	61	3	1.10E-03	-	6.10E-03	7.00E-04	-	9.90E-04	SS-AO-GP-20 (0-2)	3.82E-02	4.26E-03	4.50E-03	c*	1.80E-02	c*	no	BSL
2,3,7,8-TCDF	12	-	61	20	1.10E-03	-	6.10E-03	2.50E-04	-	1.40E-03	SS-AO-SS-03 (0-1)	3.82E-01	4.26E-02	NA		NA		no	BSL
Octachlorodibenzofuran	30	-	61	49	1.10E-02	-	1.50E-02	1.60E-04	-	1.40E+00	SS-AO-SS-08 (0-1)	3.82E+01	4.26E+00	NA		NA		no	BSL
Octachlorodibenzo-p-Dioxin	59	-	61	97	5.30E-02	-	1.30E-01	1.50E-02	-	2.10E+01	SS-AO-GP-01 (4-6),SS-AO-SS-08 (0-1)	3.82E+01	4.26E+00	NA		NA		**YES**	ASL
Total Metals_Method 6020																			
Antimony	1	-	61	2	1.90E+03	-	2.70E+03	1.10E+03	-	1.10E+03	SS-AO-SS-08 (0-1)	8.17E+04	3.13E+04	3.10E+04	n	4.10E+05	n	no	BSL
Arsenic	61	-	61	100	–	-	–	2.20E+02	-	1.00E+04	SS-AO-GP-26 (10-12)	3.82E+03	4.26E+02	3.90E+02	c*	1.60E+03	c	**YES**	ASL
Barium	61	-	61	100	–	-	–	8.80E+03	-	2.40E+05	SS-AO-GP-03 (10.5-12)	1.43E+07	5.48E+06	1.50E+07	n	1.90E+08	nm	no	BSL
Beryllium	58	-	61	95	9.90E+01	-	1.30E+02	6.10E+01	-	1.80E+03	SS-AO-GP-19 (24-26),SS-AO-GP-26 (10-12)	1.02E+06	1.56E+05	1.60E+05	n	2.00E+06	n	no	BSL
Cadmium	35	-	61	57	9.90E+01	-	1.30E+02	2.80E+01	-	5.40E+02	SS-AO-SS-08 (0-1)	1.02E+06	3.91E+04	7.00E+04	n	8.00E+05	n	no	BSL
Chromium	61	-	61	100	–	-	–	2.80E+03	-	3.00E+04	SS-AO-GP-01 (12-14)	3.07E+09	1.17E+08	1.20E+08	n	1.50E+09	n	no	BSL
Cobalt	61	-	61	100	–	-	–	3.60E+02	-	2.10E+04	SS-AO-GP-20 (12-14)	1.23E+07	4.69E+06	2.30E+04	n	3.00E+05	n	no	BSL
Copper	61	-	61	100	–	-	–	6.50E+02	-	2.20E+05	SS-AO-SS-03 (0-1)	8.17E+06	3.13E+06	3.10E+06	n	4.10E+07	n	no	BSL
Lead	61	-	61	100	–	-	–	3.00E+03	-	3.50E+05	SS-AO-SS-03 (0-1)	1.70E+06	4.00E+05	4.00E+05	L	8.00E+05	L	no	BSL
Mercury	30	-	61	49	1.90E+01	-	2.70E+01	8.80E+00	-	1.50E+03	SS-AO-GP-23 (0-2)	6.13E+04	1.00E+04	1.00E+04	ns	4.30E+04	ns	no	BSL
Nickel	61	-	61	100	–	-	–	9.00E+02	-	9.10E+04	SS-AO-SS-03 (0-1)	4.08E+06	1.56E+06	1.50E+06	n	2.00E+07	n	no	BSL
Selenium	9	-	61	15	9.60E+02	-	1.30E+03	5.80E+02	-	1.20E+03	SS-AO-GP-01 (4-6)	1.02E+06	3.91E+05	3.90E+05	n	5.10E+06	n	no	BSL
Silver	5	-	61	8	1.90E+02	-	2.70E+02	1.20E+02	-	2.90E+02	SS-AO-GP-22 (0-2)	1.02E+06	3.91E+05	3.90E+05	n	5.10E+06	n	no	BSL
Thallium	49	-	61	80	1.20E+02	-	2.60E+02	5.30E+01	-	4.70E+02	SS-AO-GP-30 (19-21)	1.43E+05	5.48E+03	7.80E+02	n	1.00E+04	n	no	BSL
Tin	1	-	61	2	1.90E+04	-	2.70E+04	1.10E+04	-	1.10E+04	SS-AO-SS-08 (0-1)	1.23E+08	4.69E+07	4.70E+07	n	6.10E+08	nm	no	BSL
Vanadium	61	-	61	100	–	-	–	2.90E+03	-	4.20E+04	SS-AO-GP-01 (12-14),SS-AO-GP-19 (24-26),SS-AO-GP-20 (12-14)	1.43E+06	5.48E+05	3.90E+05	n	5.20E+06	n	no	BSL
Zinc	61	-	61	100	–	-	–	2.70E+03	-	2.60E+05	SS-AO-GP-31 (0-2)	6.13E+07	2.35E+07	2.30E+07	n	3.10E+08	nm	no	BSL
Other																			
Cyanide	5	-	61	8	5.20E+02	-	6.90E+02	2.40E+02	-	4.80E+02	SS-AO-SS-06 (0-1)	4.08E+06	1.56E+06	4.70E+04	n	6.10E+05	n	no	BSL
Sulfide	1	-	61	2	5.40E+04	-	8.60E+04	5.90E+04	-	5.90E+04	SS-AO-SS-07 (0-1)	NA	NA	NA		NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
BSL	Below screening level.	n	Noncancer.		
c	Cancer.	NA	Not available.	µg/kg	Microgram per kilogram.
COPC	Constituent of Potential Concern.	NSL	No screening level.		

[a] All soil analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Restricted Soil Target Remediation Goal (MDEQ 2002).

[d] Mississippi Department of Environmental Quality Tier 1 Unrestricted Soil Target Remediation Goal (MDEQ 2002).

[e] The screening levels used were the USEPA Residential Soil Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; m=concentration may exceed ceiling limit; n = non-cancer; and ns=concentration may exceed the saturated concentration (Csat).

[f] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[g] The screening levels used were the USEPA Industrial Soil Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; m=concentration may exceed ceiling limit; n = non-cancer; and ns=concentration may exceed the saturated concentration (Csat).

[h] A constituent detected with a maximum concentration above the minimium of USEPA RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 4. Occurrence Summary of Soil Analytical Results (0-2 ft bls), Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max				
	Number of Detects	Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Volatile Organic Compounds_Method 8260													
1,1,1,2-Tetrachloroethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	2.25E+05	no	ND
1,1,1-Trichloroethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	2.98E+04	no	ND
1,1,2,2-Tetrachloroethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.27E+02	no	ND
1,1,2-Trichloroethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	2.86E+04	no	ND
1,1-Dichloroethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	2.01E+04	no	ND
1,1-Dichloroethene	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	8.28E+03	no	ND
1,2,3-Trichloropropane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	3.36E+03	no	ND
1,2-Dibromo-3-chloropropane	0	- 20	0	8.20E+00	-	1.60E+01	–	-	–	–	3.52E+01	no	ND
1,2-Dibromoethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.23E+03	no	ND
1,2-Dichloroethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	4.00E+02	no	ND
1,2-Dichloropropane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	7.00E+05	no	ND
2-Butanone	15	- 20	75	2.20E+01	-	4.10E+01	3.00E+00	-	2.50E+01	SS-AO-SS-06 (0-1)(3/19/2012)	8.96E+04	no	BSL
2-Chloro-1,3-butadiene	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	NA	no	ND
2-Hexanone	0	- 20	0	2.10E+01	-	4.10E+01	–	-	–	–	1.26E+04	no	ND
3-Chloropropene	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	NA	no	ND
4-Methyl-2-pentanone	0	- 20	0	2.10E+01	-	4.10E+01	–	-	–	–	4.43E+05	no	ND
Acetone	16	- 19	84	4.50E+01	-	1.60E+02	2.50E+01	-	3.10E+02	SS-AO-SS-06 (0-1)(3/19/2012)	2.50E+03	no	BSL
Acetonitrile	0	- 20	0	1.60E+02	-	3.20E+02	–	-	–	–	1.37E+03	no	ND
Acrolein	0	- 20	0	8.20E+01	-	1.60E+02	–	-	–	–	5.27E+03	no	ND
Acrylonitrile	0	- 20	0	8.20E+01	-	1.60E+02	–	-	–	–	1.00E+06	no	ND
Benzene	6	- 20	30	4.10E+00	-	8.10E+00	8.30E-01	-	8.50E+00	SS-AO-SS-02 (0-1)(3/19/2012)	5.00E+01	no	BSL
Bromodichloromethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	5.40E+02	no	ND
Bromoform	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.59E+04	no	ND
Bromomethane	2	- 20	10	4.10E+00	-	8.10E+00	1.90E+00	-	2.00E+00	SS-AO-SS-02 (0-1)(3/20/2012)	2.35E+02	no	BSL
Carbon Disulfide	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	9.41E+01	no	ND
Carbon Tetrachloride	1	- 20	5	4.10E+00	-	8.10E+00	1.10E+02	-	1.10E+02	SS-AO-GP-28 (0-2)(3/21/2012)	1.00E+02	**YES**	ASL
Chlorobenzene	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	5.00E+01	no	ND
Chloroethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	NA	no	ND
Chloroform	1	- 20	5	4.10E+00	-	8.10E+00	2.70E+01	-	2.70E+01	SS-AO-GP-28 (0-2)(3/21/2012)	1.00E+00	**YES**	ASL
Chloromethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.04E+04	no	ND
cis-1,3-Dichloropropene	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	3.98E+02	no	ND
Dibromochloromethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	2.05E+03	no	ND
Dibromomethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	6.50E+04	no	ND
Dichlorodifluoromethane	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	3.95E+04	no	ND
Ethyl Methacrylate	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	3.00E+04	no	ND
Ethylbenzene	0	- 20	0	4.10E+00	-	8.10E+00	–	-	–	–	5.00E+01	no	ND

See footnotes on the last page.

Table 4. Occurrence Summary of Soil Analytical Results (0-2 ft bls), Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(YES, no)	Rationale
Iodomethane	1	-	20	5	4.10E+00	-	8.10E+00	7.00E+00	-	7.00E+00	SS-AO-GP-28 (0-2)(3/21/2012)	NA	**YES**	NSL
Isobutanol	0	-	20	0	1.60E+02	-	3.20E+02	–	-	–	–	2.08E+04	no	ND
Methacrylonitrile	0	-	20	0	8.20E+01	-	1.60E+02	–	-	–	–	5.70E+01	no	ND
Methyl Methacrylate	0	-	20	0	8.20E+00	-	1.60E+01	–	-	–	–	NA	no	ND
Methylene Chloride	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	2.00E+03	no	ND
Pentachloroethane	0	-	20	0	2.10E+01	-	4.10E+01	–	-	–	–	NA	no	ND
Propionitrile	0	-	20	0	8.20E+01	-	1.60E+02	–	-	–	–	NA	no	ND
Styrene	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.00E+02	no	ND
Tetrachloroethene	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.00E+01	no	ND
Toluene	6	-	20	30	4.10E+00	-	8.10E+00	1.20E+00	-	1.90E+00	SS-AO-SS-02 (0-1)(3/20/2012),SS-AO-SS-03 (0-1)(3/19/2012)	5.00E+01	no	BSL
trans-1,2-Dichloroethene	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	7.84E+02	no	ND
trans-1,3-Dichloropropene	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	3.98E+02	no	ND
trans-1,4-Dichloro-2-butene	0	-	20	0	8.20E+00	-	1.60E+01	–	-	–	–	NA	no	ND
Trichloroethene	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.00E+00	no	ND
Trichlorofluoromethane	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.64E+04	no	ND
Vinyl Acetate	0	-	20	0	8.20E+00	-	1.60E+01	–	-	–	–	1.27E+04	no	ND
Vinyl Chloride	0	-	20	0	4.10E+00	-	8.10E+00	–	-	–	–	1.00E+01	no	ND
Xylenes (total)	0	-	20	0	8.20E+00	-	1.60E+01	–	-	–	–	5.00E+01	no	ND
Semi Volatile Organic Compounds_Method 8270C														
1,1'-Biphenyl	3	-	20	15	3.70E+01	-	4.10E+02	1.30E+01	-	9.00E+02	SS-AO-GP-28 (0-2)(3/21/2012)	6.00E+04	no	BSL
1,2,4,5-Tetrachlorobenzene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
1,2,4-Trichlorobenzene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	1.11E+04	no	ND
1,2-Dichlorobenzene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	2.96E+03	no	ND
1,3,5-Trinitrobenzene	0	-	20	0	7.50E+01	-	8.30E+02	–	-	–	–	3.76E+02	no	ND
1,3-Dichlorobenzene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	3.77E+04	no	ND
1,3-Dinitrobenzene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	6.55E+02	no	ND
1,4-Dichlorobenzene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	5.46E+02	no	ND
1,4-Dioxane	0	-	19	0	3.70E+01	-	4.10E+02	–	-	–	–	2.05E+03	no	ND
1,4-Naphthoquinone	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
1-Naphthylamine	0	-	19	0	7.50E+01	-	8.30E+02	–	-	–	–	NA	no	ND
2,2'-Oxybis(1-Chloropropane)	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
2,3,4,6-Tetrachlorophenol	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	1.99E+02	no	ND
2,4,5-Trichlorophenol	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	4.00E+03	no	ND
2,4,6-Trichlorophenol	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	1.00E+04	no	ND
2,4-Dichlorophenol	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	8.75E+04	no	ND
2,4-Dimethylphenol	0	-	20	0	7.50E+01	-	8.30E+02	–	-	–	–	1.00E+01	no	ND
2,4-Dinitrophenol	0	-	20	0	3.70E+02	-	4.10E+03	–	-	–	–	2.00E+04	no	ND
2,4-Dinitrotoluene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	1.28E+03	no	ND
2,6-Dichlorophenol	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
2,6-Dinitrotoluene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	3.28E+01	no	ND
2-Acetylaminofluorene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
2-Chloronaphthalene	0	-	20	0	3.70E+01	-	4.10E+02	–	-	–	–	1.22E+01	no	ND

See footnotes on the last page.

Table 4. Occurrence Summary of Soil Analytical Results (0-2 ft bls), Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects	Number of Samples	(%)	Min (µg/kg)	Max (µg/kg)		Min (µg/kg)	Max (µg/kg)			(µg/kg)	(YES, no)	Rationale
2-Chlorophenol	0	20	0	3.70E+01	4.10E+02		–	–		–	2.43E+02	no	ND
2-Methylnaphthalene	1	20	5	7.60E+00	8.40E+01		1.30E+01	1.30E+01		SS-AO-GP-32 (0-2)(3/13/2012)	3.24E+03	no	BSL
2-Methylphenol	0	20	0	3.70E+01	4.10E+02		–	–		–	4.04E+04	no	ND
2-Naphthylamine	0	19	0	7.50E+01	8.30E+02		–	–		–	NA	no	ND
2-Nitroaniline	0	20	0	1.90E+02	2.10E+03		–	–		–	7.41E+04	no	ND
2-Nitrophenol	0	20	0	3.70E+01	4.10E+02		–	–		–	1.60E+03	no	ND
2-Picoline	0	19	0	7.50E+01	8.30E+02		–	–		–	NA	no	ND
3,3'-Dichlorobenzidine	0	19	0	7.50E+01	8.30E+02		–	–		–	6.46E+02	no	ND
3,3'-Dimethylbenzidine	0	19	0	7.50E+01	8.30E+02		–	–		–	NA	no	ND
3-Methylcholanthrene	0	20	0	3.70E+01	4.10E+02		–	–		–	NA	no	ND
3-Nitroaniline	0	20	0	1.90E+02	2.10E+03		–	–		–	3.16E+03	no	ND
4,6-Dinitro-2-methylphenol	0	20	0	1.90E+02	2.10E+03		–	–		–	NA	no	ND
4-Aminobiphenyl	0	19	0	7.50E+01	8.30E+02		–	–		–	NA	no	ND
4-Bromophenyl-phenylether	0	20	0	3.70E+01	4.10E+02		–	–		–	NA	no	ND
4-Chloro-3-Methylphenol	0	20	0	3.70E+01	4.10E+02		–	–		–	7.95E+03	no	ND
4-Chloroaniline	0	20	0	7.50E+01	8.30E+02		–	–		–	1.10E+03	no	ND
4-Chlorophenyl-phenylether	0	20	0	3.70E+01	4.10E+02		–	–		–	NA	no	ND
4-Methylphenol	1	20	5	3.70E+01	4.10E+02		2.10E+01	2.10E+01		SS-AO-SS-02 (0-1)(3/20/2012)	1.63E+05	no	BSL
4-Nitroaniline	0	20	0	1.90E+02	2.10E+03		–	–		–	2.19E+04	no	ND
4-Nitrophenol	0	20	0	1.90E+02	2.10E+03		–	–		–	7.00E+03	no	ND
4-Phenylenediamine	0	20	0	3.70E+02	4.10E+03		–	–		–	6.16E+03	no	ND
5-Nitro-o-toluidine	0	15	0	9.40E+02	1.00E+04		–	–		–	NA	no	ND
7,12-Dimethylbenz(a)anthracene	0	20	0	3.70E+01	4.10E+02		–	–		–	NA	no	ND
a,a'-Dimethylphenethylamine	0	19	0	7.60E+03	8.40E+04		–	–		–	NA	no	ND
Acenaphthene	1	20	5	7.60E+00	8.40E+01		4.20E+00	4.20E+00		SS-AO-GP-03 (0-2)(3/14/2012)	2.00E+04	no	BSL
Acenaphthylene	0	20	0	7.60E+00	8.40E+01		–	–		–	6.82E+05	no	ND
Acetophenone	0	20	0	3.70E+01	4.10E+02		–	–		–	3.00E+05	no	ND
Aniline	1	20	5	7.50E+01	8.30E+02		1.50E+01	1.50E+01		SS-AO-GP-32 (0-2)(3/13/2012)	5.68E+01	no	BSL
Anthracene	1	20	5	7.60E+00	8.40E+01		5.00E+00	5.00E+00		SS-AO-GP-03 (0-2)(3/14/2012)	1.00E+02	no	BSL
Aramite	0	20	0	7.50E+01	8.30E+02		–	–		–	NA	no	ND
Benzo(a)anthracene	3	20	15	7.60E+00	8.30E+01		4.20E+01	1.30E+02		SS-AO-SS-08 (0-1)(3/19/2012)	5.21E+03	no	BSL
Benzo(a)pyrene	5	20	25	7.70E+00	8.30E+01		5.10E+00	1.60E+02		SS-AO-SS-08 (0-1)(3/19/2012)	1.00E+02	**YES**	ASL
Benzo(b)fluoranthene	4	20	20	7.70E+00	8.30E+01		4.80E+00	3.20E+02		SS-AO-SS-08 (0-1)(3/19/2012)	5.98E+04	no	BSL
Benzo(g,h,i)perylene	2	20	10	7.60E+00	8.30E+01		4.70E+01	8.30E+01		SS-AO-SS-08 (0-1)(3/19/2012)	1.19E+05	no	BSL
Benzo(k)fluoranthene	6	20	30	7.70E+00	8.40E+01		3.60E+00	1.00E+02		SS-AO-SS-03 (0-1)(3/19/2012)	1.48E+05	no	BSL
Benzyl Alcohol	3	20	15	3.70E+01	4.10E+02		8.00E+00	2.10E+02		SS-AO-GP-31 (0-2)(3/14/2012)	6.58E+04	no	BSL
bis(2-Chloroethoxy)methane	0	20	0	3.70E+01	4.10E+02		–	–		–	3.02E+02	no	ND
bis(2-Chloroethyl)ether	0	20	0	3.70E+01	4.10E+02		–	–		–	2.37E+04	no	ND
bis(2-Ethylhexyl)phthalate	9	20	45	1.20E+01	8.20E+02		9.80E+00	6.90E+02		SS-AO-GP-24 (0-2)(3/16/2012)	1.00E+02	**YES**	ASL
Butylbenzylphthalate	0	20	0	3.70E+01	4.10E+02		–	–		–	2.39E+02	no	ND
Chrysene	7	20	35	7.70E+00	8.30E+01		4.80E+00	1.60E+02		SS-AO-SS-08 (0-1)(3/19/2012)	4.73E+03	no	BSL
Diallate	0	20	0	3.70E+01	4.10E+02		–	–		–	4.52E+02	no	ND
Dibenzo(a,h)anthracene											1.84E+04	no	ND
Dibenzofuran	0	20	0	3.70E+01	4.10E+02		–	–		–	NA	no	ND
Diethylphthalate	0	20	0	3.70E+01	4.10E+02		–	–		–	1.00E+05	no	ND
Dimethoate	0	20	0	3.70E+01	4.10E+02		–	–		–	NA	no	ND

See footnotes on the last page.

Table 4. Occurrence Summary of Soil Analytical Results (0-2 ft bls), Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max				
	Number of Detects	Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Dimethylphthalate	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	2.00E+05	no	ND
Di-n-Butylphthalate	0	20	0	1.90E+02	-	2.10E+03	–	-	–	–	2.00E+05	no	ND
Di-n-Octylphthalate	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	7.09E+05	no	ND
Dinoseb	0	20	0	7.50E+01	-	8.30E+02	–	-	–	–	2.18E+01	no	ND
Diphenyl Ether	6	20	30	3.70E+01	-	4.10E+02	4.40E+01	-	2.60E+03	SS-AO-GP-28 (0-2)(3/21/2012)	NA	**YES**	NSL
Disulfoton	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	1.99E+01	no	ND
Ethyl Methanesulfonate	0	20	0	7.50E+01	-	8.30E+02	–	-	–	–	NA	no	ND
Ethyl Parathion	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	3.40E-01	no	ND
Famphur	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Fluoranthene	11	20	55	7.70E+00	-	8.30E+01	4.30E+00	-	2.20E+02	SS-AO-SS-08 (0-1)(3/19/2012)	1.00E+02	**YES**	ASL
Fluorene	1	20	5	7.60E+00	-	8.40E+01	5.20E+00	-	5.20E+00	SS-AO-GP-03 (0-2)(3/14/2012)	1.22E+05	no	BSL
Hexachlorobenzene	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	2.50E+00	no	ND
Hexachlorobutadiene	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	3.98E+01	no	ND
Hexachlorocyclopentadiene	0	20	0	7.50E+01	-	8.30E+02	–	-	–	–	1.00E+04	no	ND
Hexachloroethane	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	5.96E+02	no	ND
Hexachlorophene	0	18	0	1.90E+04	-	2.10E+05	–	-	–	–	NA	no	ND
Hexachloropropene	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Indeno(1,2,3-cd)pyrene	1	20	5	7.60E+00	-	8.30E+01	6.80E+01	-	6.80E+01	SS-AO-SS-08 (0-1)(3/19/2012)	1.09E+05	no	BSL
Isophorone	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	1.39E+05	no	ND
Isosafrole	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Methapyrilene	0	19	0	7.60E+03	-	8.40E+04	–	-	–	–	NA	no	ND
Methyl Methanesulfonate	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Methyl Parathion	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Naphthalene	1	20	5	7.60E+00	-	8.40E+01	1.60E+01	-	1.60E+01	SS-AO-GP-32 (0-2)(3/13/2012)	1.00E+02	no	BSL
Nitrobenzene	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	4.00E+04	no	ND
N-Nitrosodiethylamine	0	20	0	7.50E+01	-	8.30E+02	–	-	–	–	NA	no	ND
N-Nitrosodimethylamine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	3.21E-02	no	ND
N-Nitroso-di-n-butylamine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
N-Nitroso-di-n-propylamine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	5.44E+02	no	ND
N-Nitrosodiphenylamine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	2.00E+04	no	ND
N-Nitrosomethylethylamine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
N-Nitrosomorpholine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
N-Nitrosopiperidine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
N-Nitrosopyrrolidine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
o,o,o-Triethylphosphorothioate	0	20	0	7.50E+01	-	8.30E+02	–	-	–	–	NA	no	ND
o-Toluidine	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	2.97E+03	no	ND
p-Dimethylaminoazobenzene	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Pentachlorobenzene	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	2.50E+00	no	ND
Pentachloronitrobenzene	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Pentachlorophenol	0	20	0	1.90E+02	-	2.10E+03	–	-	–	–	2.00E+00	no	ND
Phenacetin	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Phenanthrene	8	20	40	7.70E+00	-	8.30E+01	3.50E+00	-	9.60E+01	SS-AO-SS-08 (0-1)(3/19/2012)	1.00E+02	no	BSL
Phenol	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	5.00E+01	no	ND
Phorate	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Pronamide	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Pyrene	8	20	40	7.70E+00	-	8.30E+01	4.20E+00	-	2.70E+02	SS-AO-SS-08 (0-1)(3/19/2012)	1.00E+02	**YES**	ASL
Pyridine	0	19	0	3.70E+01	-	4.10E+02	–	-	–	–	1.00E+02	no	ND

See footnotes on the last page.

Table 4. Occurrence Summary of Soil Analytical Results (0-2 ft bls), Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max				
	Number of Detects	Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Safrole	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Sulfotep	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Thionazin	0	20	0	3.70E+01	-	4.10E+02	–	-	–	–	NA	no	ND
Organochlorine Pesticides_Method 8081													
4,4'-DDD	3	20	15	3.60E+00	-	4.30E+00	1.00E+01	-	1.80E+02	SS-AO-GP-31 (0-2)(3/14/2012)	2.50E+00	**YES**	ASL
4,4'-DDE	13	20	65	3.80E+00	-	4.10E+00	1.30E+00	-	4.50E+02	SS-AO-GP-31 (0-2)(3/14/2012)	2.50E+00	**YES**	ASL
4,4'-DDT	13	20	65	3.80E+00	-	4.10E+00	1.20E+00	-	2.20E+02	SS-AO-SS-08 (0-1)(3/19/2012)	2.50E+00	**YES**	ASL
4-Chlorobenzilate	0	20	0	1.80E+01	-	1.10E+02	–	-	–	–	NA	no	ND
Aldrin	1	20	5	1.90E+00	-	1.10E+01	1.80E+00	-	1.80E+00	SS-AO-SS-03 (0-1)(3/19/2012)	2.50E+00	no	BSL
Alpha-BHC	0	20	0	1.80E+00	-	1.10E+01	–	-	–	–	2.50E+00	no	ND
Beta-BHC	0	20	0	1.80E+00	-	1.10E+01	–	-	–	–	1.00E+00	no	ND
Delta-BHC	1	20	5	1.80E+00	-	2.20E+00	2.80E-01	-	2.80E-01	SS-AO-GP-20 (0-2)(3/19/2012)	9.94E+03	no	BSL
Dieldrin	4	20	20	3.70E+00	-	1.90E+01	1.20E+00	-	4.20E+01	SS-AO-SS-03 (0-1)(3/19/2012)	2.80E-01	**YES**	ASL
Endosulfan I	0	20	0	1.80E+00	-	9.50E+00	–	-	–	–	1.19E+02	no	ND
Endosulfan II	0	20	0	3.60E+00	-	2.10E+01	–	-	–	–	1.19E+02	no	ND
Endosulfan Sulfate	0	20	0	3.60E+00	-	2.10E+01	–	-	–	–	3.58E+00	no	ND
Endrin	0	20	0	3.60E+00	-	4.30E+00	–	-	–	–	1.00E+00	no	ND
Endrin Aldehyde	0	20	0	3.60E+00	-	4.30E+00	–	-	–	–	1.05E+01	no	ND
Gamma-BHC (Lindane)	0	20	0	1.80E+00	-	2.20E+00	–	-	–	–	5.00E-02	no	ND
Heptachlor	0	20	0	1.80E+00	-	2.20E+00	–	-	–	–	5.98E+00	no	ND
Heptachlor Epoxide	1	20	5	1.90E+00	-	1.10E+01	3.30E+00	-	3.30E+00	SS-AO-SS-03 (0-1)(3/19/2012)	1.52E+02	no	BSL
Isodrin	0	20	0	3.60E+00	-	2.10E+01	–	-	–	–	NA	no	ND
Kepone	0	20	0	1.80E+02	-	1.10E+03	–	-	–	–	NA	no	ND
Methoxychlor	0	20	0	3.60E+00	-	2.10E+01	–	-	–	–	1.99E+01	no	ND
Technical Chlordane	0	20	0	1.80E+01	-	1.10E+02	–	-	–	–	2.24E+02	no	ND
Toxaphene	5	20	25	1.80E+02	-	1.10E+03	1.60E+02	-	1.40E+03	SS-AO-SS-06 (0-1)(3/19/2012)	NA	**YES**	NSL
Polychlorinated Biphenyls_Method 8082													
Aroclor-1016	0	20	0	3.60E+01	-	1.90E+02	–	-	–	–	2.00E+01	no	ND
Aroclor-1221	0	20	0	7.30E+01	-	8.80E+01	–	-	–	–	2.00E+01	no	ND
Aroclor-1232	0	20	0	3.60E+01	-	4.30E+01	–	-	–	–	2.00E+01	no	ND
Aroclor-1242	0	20	0	3.60E+01	-	1.90E+02	–	-	–	–	2.00E+01	no	ND
Aroclor-1248	0	20	0	3.60E+01	-	2.10E+02	–	-	–	–	2.00E+01	no	ND
Aroclor-1254	1	20	5	3.70E+01	-	1.90E+02	4.10E+02	-	4.10E+02	SS-AO-SS-03 (0-1)(3/19/2012)	2.00E+01	**YES**	ASL
Aroclor-1260	0	20	0	3.60E+01	-	4.30E+01	–	-	–	–	2.00E+01	no	ND
Herbicides_Method 8151													
2,4,5-T	0	20	0	9.00E+00	-	1.10E+01	–	-	–	–	NA	no	ND
2,4,5-TP	0	20	0	9.00E+00	-	1.10E+01	–	-	–	–	NA	no	ND
2,4-D	0	20	0	9.00E+00	-	1.10E+01	–	-	–	–	2.72E+02	no	ND
Dioxathion/Dioxenethion_Method 8310													
cis-Dioxathion	13	20	65	8.25E+01	-	8.54E+01	1.07E+02	-	1.57E+03	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
Dioxenethion	17	20	85	1.69E+01	-	1.70E+01	3.33E+01	-	1.99E+03	SS-AO-GP-33 (0-2)(3/13/2012)	NA	**YES**	NSL
trans-Dioxathion	14	20	70	8.38E+01	-	8.51E+01	9.50E+01	-	8.26E+02	SS-AO-SS-06 (0-1)(3/19/2012)	NA	**YES**	NSL
Dioxins and Furans_Method 8290													
1,2,3,4,6,7,8-HpCDD	20	20	100	–	-	–	9.20E-03	-	2.80E+00	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,4,6,7,8-HpCDF	20	20	100	–	-	–	3.00E-04	-	5.10E-01	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL

See footnotes on the last page.

Table 4. Occurrence Summary of Soil Analytical Results (0-2 ft bls), Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max				
	Number of Detects	Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
1,2,3,4,7,8,9-HpCDF	14	20	70	5.60E-03	-	6.20E-03	2.20E-04	-	4.30E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDD	16	20	80	5.60E-03	-	6.20E-03	3.10E-04	-	1.80E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDF	17	20	85	6.00E-03	-	6.20E-03	1.70E-04	-	1.60E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDD	17	20	85	6.00E-03	-	6.20E-03	8.90E-04	-	7.80E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDF	17	20	85	6.00E-03	-	6.20E-03	2.50E-04	-	8.30E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDD	19	20	95	6.20E-03	-	6.20E-03	2.90E-04	-	5.00E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDF	2	20	10	5.50E-03	-	3.10E-02	2.30E-04	-	5.30E-04	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDD	14	20	70	5.60E-03	-	6.30E-03	4.40E-04	-	5.50E-03	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDF	7	20	35	5.50E-03	-	3.10E-02	2.50E-04	-	1.60E-03	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
2,3,4,6,7,8-HxCDF	15	20	75	5.60E-03	-	6.20E-03	2.70E-04	-	8.20E-03	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
2,3,4,7,8-PeCDF	12	20	60	5.50E-03	-	3.10E-02	1.10E-04	-	2.30E-03	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
2,3,7,8-TCDD	1	20	5	1.10E-03	-	6.10E-03	9.90E-04	-	9.90E-04	SS-AO-GP-20 (0-2)(3/19/2012)	1.99E-04	**YES**	ASL
2,3,7,8-TCDF	12	20	60	1.10E-03	-	6.10E-03	2.50E-04	-	1.40E-03	SS-AO-SS-03 (0-1)(3/19/2012)	NA	**YES**	NSL
Octachlorodibenzofuran	18	20	90	1.20E-02	-	1.20E-02	3.70E-03	-	1.40E+00	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
Octachlorodibenzo-p-Dioxin	20	20	100	–	-	–	4.70E-01	-	2.10E+01	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
Total Metals_Method 6020													
Antimony	1	20	5	2.00E+03	-	2.50E+03	1.10E+03	-	1.10E+03	SS-AO-SS-08 (0-1)(3/19/2012)	2.90E+02	**YES**	ASL
Arsenic	20	20	100	–	-	–	9.90E+02	-	5.60E+03	SS-AO-SS-07 (0-1)(3/19/2012)	1.00E+04	no	BSL
Barium	20	20	100	–	-	–	2.00E+04	-	1.10E+05	SS-AO-GP-27 (0-2)(3/13/2012)	3.30E+05	no	BSL
Beryllium	20	20	100	–	-	–	7.80E+01	-	6.20E+02	SS-AO-GP-27 (0-2)(3/13/2012)	3.60E+04	no	BSL
Cadmium	19	20	95	1.10E+02	-	1.10E+02	2.80E+01	-	5.40E+02	SS-AO-SS-08 (0-1)(3/19/2012)	3.80E+02	**YES**	ASL
Chromium	20	20	100	–	-	–	3.40E+03	-	1.90E+04	SS-AO-GP-28 (0-2)(3/21/2012)	4.00E+02	**YES**	ASL
Cobalt	20	20	100	–	-	–	1.30E+03	-	1.60E+04	SS-AO-SS-02 (0-1)(3/20/2012)	1.30E+04	**YES**	ASL
Copper	20	20	100	–	-	–	2.40E+03	-	2.20E+05	SS-AO-SS-03 (0-1)(3/19/2012)	4.00E+04	**YES**	ASL
Lead	20	20	100	–	-	–	8.30E+03	-	3.50E+05	SS-AO-SS-03 (0-1)(3/19/2012)	1.60E+04	**YES**	ASL
Mercury	19	20	95	2.20E+01	-	2.20E+01	1.40E+01	-	1.50E+03	SS-AO-GP-23 (0-2)(3/19/2012)	1.00E+02	**YES**	ASL
Nickel	20	20	100	–	-	–	2.50E+03	-	9.10E+04	SS-AO-SS-03 (0-1)(3/19/2012)	3.00E+04	**YES**	ASL
Selenium	2	20	10	1.00E+03	-	1.20E+03	6.70E+02	-	6.80E+02	SS-AO-GP-26 (0-1.5)(3/20/2012)	8.10E+02	no	BSL
Silver	4	20	20	2.00E+02	-	2.50E+02	1.40E+02	-	2.90E+02	SS-AO-GP-22 (0-2)(3/19/2012)	2.00E+03	no	BSL
Thallium	15	20	75	1.20E+02	-	2.30E+02	5.30E+01	-	2.40E+02	SS-AO-GP-27 (0-2)(3/13/2012)	1.00E+03	no	BSL
Tin	1	20	5	2.00E+04	-	2.50E+04	1.10E+04	-	1.10E+04	SS-AO-SS-08 (0-1)(3/19/2012)	5.30E+04	no	BSL
Vanadium	20	20	100	–	-	–	3.50E+03	-	2.60E+04	SS-AO-GP-27 (0-2)(3/13/2012)	2.00E+03	**YES**	ASL
Zinc	20	20	100	–	-	–	1.10E+04	-	2.60E+05	SS-AO-GP-31 (0-2)(3/14/2012)	5.00E+04	**YES**	ASL
Other													
Cyanide	2	20	10	5.20E+02	-	6.30E+02	3.60E+02	-	4.80E+02	SS-AO-SS-06 (0-1)(3/19/2012)	9.00E+02	no	BSL
Sulfide	1	20	5	5.40E+04	-	7.50E+04	5.90E+04	-	5.90E+04	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL

–	Not applicable.	NA	Not available.
ASL	Above screening level.	NSL	No screening level.
BSL	Below screening level.	µg/kg	Microgram per kilogram.
COPC	Constituent of Potential Concern.		

[a] All surface soil analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Ecological Screening Levels were obtained using the following hierarchy: 1) USEPA Revised Region 4 Ecological Screening Values (USEPA 2001); 2) USEPA Region 5 Ecological Screening Values (USEPA 2003); and 3) USEPA Region 3 Ecological Screening Levels (USEPA 2006). The screening level for Aroclor-1254 was indicated by USEPA Region 4 in a letter dated 11/1/12.

[d] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[e] A constituent detected with a maximum concentration above the Ecological Screening Level is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 5. Occurrence Summary of Surface Water Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	National Recommended Water Quality	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)	-	Max (µg/L)	Min (µg/L)	-	Max (µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																
1,1,1,2-Tetrachloroethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	5.00E-01	c	no	ND
1,1,1-Trichloroethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	7.50E+03	n	no	ND
1,1,2,2-Tetrachloroethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	1.70E-01	6.60E-02	c	no	ND
1,1,2-Trichloroethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	5.90E-01	2.40E-01	c**	no	ND
1,1-Dichloroethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	2.40E+00	c	no	ND
1,1-Dichloroethene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	3.30E+02	2.60E+02	n	no	ND
1,2,3-Trichloropropane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	6.50E-04	c	no	ND
1,2,4-Trichlorobenzene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	3.50E+01	9.90E-01	c**	no	ND
1,2-Dibromo-3-chloropropane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	3.20E-04	c	no	ND
1,2-Dibromoethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	6.50E-03	c	no	ND
1,2-Dichloroethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	3.80E-01	1.50E-01	c*	no	ND
1,2-Dichloropropane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	5.00E-01	3.80E-01	c*	no	ND
1,4-Dioxane	2	-	15	13	5.00E+01	-	5.00E+01	5.90E+01	-	6.90E+01	SW-AO-SW-07 (3/14/2012)	NA	6.70E-01	c	**YES**	ASL
2-Butanone	0	-	15	0	1.00E+01	-	1.00E+01	–	-	–	–	NA	4.90E+03	n	no	ND
2-Chloro-1,3-butadiene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	1.60E-02	c	no	ND
2-Hexanone	0	-	15	0	1.00E+01	-	1.00E+01	–	-	–	–	NA	3.40E+01	n	no	ND
3-Chloropropene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	NA		no	ND
4-Methyl-2-pentanone	1	-	15	7	1.00E+01	-	1.00E+01	2.30E+00	-	2.30E+00	SW-AO-SW-15 (3/13/2012)	NA	1.00E+03	n	no	BSL
Acetone	2	-	15	13	2.50E+01	-	2.50E+01	7.80E+00	-	1.20E+01	SW-AO-SW-16 (3/12/2012)	NA	1.20E+04	n	no	BSL
Acetonitrile	0	-	15	0	4.00E+01	-	4.00E+01	–	-	–	–	NA	1.30E+02	n	no	ND
Acrolein	0	-	15	0	2.00E+01	-	2.00E+01	–	-	–	–	6.00E+00	4.10E-02	n	no	ND
Acrylonitrile	0	-	15	0	2.00E+01	-	2.00E+01	–	-	–	–	5.10E-02	4.50E-02	c*	no	ND
Benzene	3	-	15	20	1.00E+00	-	1.00E+00	3.30E-01	-	1.40E+01	SW-AO-SW-15 (3/13/2012)	2.20E+00	3.90E-01	c*	**YES**	ASL
Bromodichloromethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	5.50E-01	1.20E-01	c	no	ND
Bromoform	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	4.30E+00	7.90E+00	c*	no	ND
Bromomethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	4.70E+01	7.00E+00	n	no	ND
Carbon Disulfide	1	-	15	7	2.00E+00	-	2.00E+00	3.00E+00	-	3.00E+00	SW-AO-SW-15 (3/13/2012)	NA	7.20E+02	n	no	BSL
Carbon Tetrachloride	1	-	15	7	1.00E+00	-	1.00E+00	6.30E+01	-	6.30E+01	SW-AO-SW-15 (3/13/2012)	2.30E-01	3.90E-01	c	**YES**	ASL
Chlorobenzene	1	-	15	7	1.00E+00	-	1.00E+00	4.90E-01	-	4.90E-01	SW-AO-SW-15 (3/13/2012)	1.30E+02	7.20E+01	n	no	BSL
Chloroethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	2.10E+04	n	no	ND
Chloroform	4	-	15	27	1.00E+00	-	1.00E+00	2.50E-01	-	3.00E+01	SW-AO-SW-15 (3/13/2012)	5.70E+00	1.90E-01	c	**YES**	ASL
Chloromethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	1.90E+02	n	no	ND
cis-1,3-Dichloropropene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	4.10E-01	c	no	ND
Dibromochloromethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	4.00E-01	1.50E-01	c	no	ND
Dibromomethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	7.90E+00	n	no	ND
Dichlorodifluoromethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	1.90E+02	n	no	ND
Ethyl Methacrylate	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	4.20E+02	n	no	ND
Ethylbenzene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	5.30E+02	1.30E+00	c	no	ND
Hexachlorobutadiene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	4.40E-01	2.60E-01	c*	no	ND

See footnotes on the last page.

Table 5. Occurrence Summary of Surface Water Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	National Recommended Water Quality	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Iodomethane	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	NA	NA		no	ND
Isobutanol	0	-	15	0	4.00E+01	-	4.00E+01	–	-	–	–	NA	4.60E+03	n	no	ND
Methacrylonitrile	0	-	15	0	2.00E+01	-	2.00E+01	–	-	–	–	NA	7.50E-01	n	no	ND
Methyl Methacrylate	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	1.40E+03	n	no	ND
Methylene Chloride	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	4.60E+00	9.90E+00	c**	no	ND
Naphthalene	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	NA	1.40E-01	c*	no	ND
Pentachloroethane	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	NA	5.60E-01	c	no	ND
Propionitrile	0	-	15	0	2.00E+01	-	2.00E+01	–	-	–	–	NA	NA		no	ND
Styrene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	1.10E+03	n	no	ND
Tetrachloroethene	1	-	15	7	1.00E+00	-	1.00E+00	1.60E-01	-	1.60E-01	SW-AO-SW-12 (3/13/2012)	6.90E-01	9.70E+00	c**	no	BSL
Toluene	1	-	15	7	1.00E+00	-	1.00E+00	4.70E+00	-	4.70E+00	SW-AO-SW-15 (3/13/2012)	1.30E+03	8.60E+02	n	no	BSL
trans-1,2-Dichloroethene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	1.40E+02	8.60E+01	n	no	ND
trans-1,3-Dichloropropene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	4.10E-01	c	no	ND
trans-1,4-Dichloro-2-butene	0	-	15	0	2.00E+00	-	2.00E+00	–	-	–	–	NA	1.20E-03	c	no	ND
Trichloroethene	1	-	15	7	1.00E+00	-	1.00E+00	4.10E-01	-	4.10E-01	SW-AO-SW-12 (3/13/2012)	2.50E+00	4.40E-01	c**	no	BSL
Trichlorofluoromethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	1.10E+03	n	no	ND
Vinyl Acetate	0	-	15	0	2.00E+00	-	2.00E+00	–	-	–	–	NA	4.10E+02	n	no	ND
Vinyl Chloride	1	-	15	7	1.00E+00	-	1.00E+00	2.00E-01	-	2.00E-01	SW-AO-SW-12 (3/13/2012)	2.50E-02	1.50E-02	c	**YES**	ASL
Xylenes (total)	0	-	15	0	2.00E+00	-	2.00E+00	–	-	–	–	NA	1.90E+02	n	no	ND
Volatile Organic Compounds_Method 8011																
1,2-Dibromo-3-chloropropane	0	-	15	0	2.00E-02	-	2.10E-02	–	-	–	–	NA	3.20E-04	c	no	ND
1,2-Dibromoethane	0	-	15	0	2.00E-02	-	2.10E-02	–	-	–	–	NA	6.50E-03	c	no	ND
Semi Volatile Organic Compounds_Method 8270C																
1,1'-Biphenyl	5	-	15	33	9.50E-01	-	2.00E+00	9.90E-02	-	2.90E+00	SW-AO-SW-11 (3/13/2012)	NA	8.30E-01	n	**YES**	ASL
1,2,4,5-Tetrachlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.20E+00	n	no	ND
1,2,4-Trichlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.50E+01	9.90E-01	c**	no	ND
1,2-Dichlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	4.20E+02	2.80E+02	n	no	ND
1,3,5-Trinitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	4.60E+02	n	no	ND
1,3-Dichlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.20E+02	NA		no	ND
1,3-Dinitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.50E+00	n	no	ND
1,4-Dichlorobenzene	1	-	15	7	9.50E-01	-	2.00E+00	1.90E-01	-	1.90E-01	SW-AO-SW-16 (3/12/2012)	6.30E+01	4.20E-01	c	no	BSL
1,4-Dioxane	4	-	14	29	1.90E+00	-	4.00E+00	3.10E-01	-	4.40E+01	SW-AO-SW-06 (3/15/2012)	NA	6.70E-01	c	**YES**	ASL
1,4-Naphthoquinone	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
1-Naphthylamine	0	-	14	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	NA		no	ND
2,2'-Oxybis(1-Chloropropane)	1	-	15	7	9.40E-01	-	2.00E+00	2.70E-01	-	2.70E-01	SW-AO-SW-15 (3/13/2012)	1.40E+03	3.10E-01	c	no	BSL
2,3,4,6-Tetrachlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.70E+02	n	no	ND
2,4,5-Trichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.80E+03	8.90E+02	n	no	ND
2,4,6-Trichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.40E+00	3.50E+00	c**	no	ND
2,4-Dichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	7.70E+01	3.50E+01	n	no	ND
2,4-Dimethylphenol	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	3.80E+02	2.70E+02	n	no	ND
2,4-Dinitrophenol	0	-	15	0	9.40E+00	-	2.00E+01	–	-	–	–	6.90E+01	3.00E+01	n	no	ND
2,4-Dinitrotoluene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.10E-01	2.00E-01	c	no	ND
2,6-Dichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
2,6-Dinitrotoluene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.50E+01	n	no	ND
2-Acetylaminofluorene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.40E-02	c	no	ND
2-Chloronaphthalene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.00E+03	5.50E+02	n	no	ND

See footnotes on the last page.

Table 5. Occurrence Summary of Surface Water Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	National Recommended Water Quality	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
2-Chlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	8.10E+01	7.10E+01	n	no	ND
2-Methylnaphthalene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	NA	2.70E+01	n	no	ND
2-Methylphenol	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	7.20E+02	n	no	ND
2-Naphthylamine	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	3.30E-02	c	no	ND
2-Nitroaniline	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.50E+02	n	no	ND
2-Nitrophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
2-Picoline	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	NA		no	ND
3,3'-Dichlorobenzidine	0	-	14	0	1.90E+01	-	4.00E+01	–	-	–	–	2.10E-02	1.10E-01	c	no	ND
3,3'-Dimethylbenzidine	0	-	14	0	1.90E+01	-	4.00E+01	–	-	–	–	NA	5.60E-03	c	no	ND
3-Methylcholanthrene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	9.80E-04	c	no	ND
3-Nitroaniline	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	NA		no	ND
4,6-Dinitro-2-methylphenol	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	1.30E+01	1.20E+00	n	no	ND
4-Aminobiphenyl	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	2.60E-03	c	no	ND
4-Bromophenyl-phenylether	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
4-Chloro-3-Methylphenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.10E+03	n	no	ND
4-Chloroaniline	0	-	14	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	3.20E-01	c	no	ND
4-Chlorophenyl-phenylether	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
4-Methylphenol	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	1.40E+03	n	no	ND
4-Nitroaniline	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	3.30E+00	c*	no	ND
4-Nitrophenol	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	NA		no	ND
4-Nitroquinoline-1-oxide	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	NA		no	ND
4-Phenylenediamine	0	-	14	0	1.90E+02	-	4.00E+02	–	-	–	–	NA	3.00E+03	n	no	ND
5-Nitro-o-toluidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	7.00E+00	c*	no	ND
7,12-Dimethylbenz(a)anthracene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	8.60E-05	c	no	ND
a,a'-Dimethylphenethylamine	0	-	15	0	9.40E+00	-	2.00E+01	–	-	–	–	NA	NA		no	ND
Acenaphthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	6.70E+02	4.00E+02	n	no	ND
Acenaphthylene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	NA	NA		no	ND
Acetophenone	6	-	15	40	9.50E-01	-	2.00E+00	1.00E-01	-	3.10E-01	SW-AO-SW-11 (3/13/2012)	NA	1.50E+03	n	no	BSL
Aniline	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	1.20E+01	c**	no	ND
Anthracene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	8.30E+03	1.30E+03	n	no	ND
Aramite	0	-	15	0	1.40E+00	-	3.00E+00	–	-	–	–	NA	2.70E+00	c	no	ND
Benzo(a)anthracene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.80E-03	2.90E-02	c	no	ND
Benzo(a)pyrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.80E-03	2.90E-03	c	no	ND
Benzo(b)fluoranthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.80E-03	2.90E-02	c	no	ND
Benzo(g,h,i)perylene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	NA	NA		no	ND
Benzo(k)fluoranthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.80E-03	2.90E-01	c	no	ND
Benzyl Alcohol	2	-	15	13	9.40E-01	-	2.00E+00	1.40E-01	-	1.80E-01	SW-AO-SW-04 (3/20/2012)	NA	1.50E+03	n	no	BSL
bis(2-Chloroethoxy)methane	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	4.70E+01	n	no	ND
bis(2-Chloroethyl)ether	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.00E-02	1.20E-02	c	no	ND
bis(2-Ethylhexyl)phthalate	4	-	15	27	1.90E+00	-	4.00E+00	6.10E-01	-	2.20E+00	SW-AO-SW-11 (3/13/2012)	1.20E+00	7.10E-02	c*	**YES**	ASL
Butylbenzylphthalate	3	-	15	20	9.40E-01	-	2.00E+00	1.20E-01	-	1.40E-01	SW-AO-SW-03 (3/20/2012)	1.50E+03	1.40E+01	c*	no	BSL
Chrysene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.80E-03	2.90E+00	c	no	ND
Diallate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	4.60E-01	c	no	ND
Dibenzo(a,h)anthracene												3.80E-03			no	ND
Dibenzofuran	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	5.80E+00	n	no	ND
Diethylphthalate	4	-	15	27	9.50E-01	-	2.00E+00	1.10E-01	-	3.60E-01	SW-AO-SW-02 (3/20/2012)	1.70E+04	1.10E+04	n	no	BSL
Dimethoate	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	3.10E+00	n	no	ND

See footnotes on the last page.

Table 5. Occurrence Summary of Surface Water Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	National Recommended Water Quality	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Dimethylphthalate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	2.70E+05	NA		no	ND
Di-n-Butylphthalate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	2.00E+03	6.70E+02	n	no	ND
Di-n-Octylphthalate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
Dinoseb	0	-	10	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	1.10E+01	n	no	ND
Diphenyl Ether	4	-	14	29	9.50E-01	-	2.00E+00	3.00E-01	-	1.10E+01	SW-AO-SW-15 (3/13/2012)	NA	NA		**YES**	NSL
Disulfoton	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	3.80E-01	n	no	ND
Ethyl Methanesulfonate	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	NA		no	ND
Ethyl Parathion	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	6.50E+01	n	no	ND
Famphur	0	-	11	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
Fluoranthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	1.30E+02	6.30E+02	n	no	ND
Fluorene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	1.10E+03	2.20E+02	n	no	ND
Hexachlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	2.80E-04	4.20E-02	c	no	ND
Hexachlorobutadiene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	4.40E-01	2.60E-01	c*	no	ND
Hexachlorocyclopentadiene	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	4.00E+01	2.20E+01	n	no	ND
Hexachloroethane	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.40E+00	7.90E-01	c**	no	ND
Hexachlorophene	0	-	15	0	4.70E+02	-	1.00E+03	–	-	–	–	NA	4.70E+00	n	no	ND
Hexachloropropene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
Indeno(1,2,3-cd)pyrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.80E-03	2.90E-02	c	no	ND
Isophorone	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.50E+01	6.70E+01	c*	no	ND
Isosafrole	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
Methapyrilene	0	-	15	0	1.90E+02	-	4.00E+02	–	-	–	–	NA	NA		no	ND
Methyl Methanesulfonate	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	6.80E-01	c	no	ND
Methyl Parathion	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	3.40E+00	n	no	ND
Naphthalene	1	-	15	7	1.90E-01	-	4.00E-01	3.60E-01	-	3.60E-01	SW-AO-SW-15 (3/13/2012)	NA	1.40E-01	c*	**YES**	ASL
Nitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.70E+01	1.20E-01	c*	no	ND
N-Nitrosodiethylamine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	8.00E-04	1.40E-04	c	no	ND
N-Nitroso-di-n-propylamine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	5.00E-03	9.30E-03	c	no	ND
N-Nitrosodiphenylamine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.30E+00	1.00E+01	c	no	ND
N-Nitrosomethylethylamine	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	3.00E-03	c	no	ND
N-Nitrosomorpholine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.00E-02	c	no	ND
N-Nitrosopiperidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	7.10E-03	c	no	ND
N-Nitrosopyrrolidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.60E-02	3.20E-02	c	no	ND
o,o,o-Triethylphosphorothioate	3	-	15	20	9.40E-01	-	2.00E+00	1.50E+00	-	2.20E+00	SW-AO-SW-07 (3/14/2012)	NA	NA		**YES**	NSL
o-Toluidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
p-Dimethylaminoazobenzene	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	4.30E-03	c	no	ND
Pentachlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.40E+00	2.30E+00	n	no	ND
Pentachloronitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	1.00E-01	c	no	ND
Pentachlorophenol	0	-	10	0	4.70E+00	-	9.90E+00	–	-	–	–	2.70E-01	1.70E-01	c	no	ND
Phenacetin	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	3.00E+01	c	no	ND
Phenanthrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	NA	NA		no	ND
Phenol	2	-	15	13	9.40E-01	-	2.00E+00	2.60E+00	-	5.90E+00	SW-AO-SW-15 (3/13/2012)	1.00E+04	4.50E+03	n	no	BSL
Phorate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	2.30E+00	n	no	ND
Pronamide	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	9.00E+02	n	no	ND
Pyrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	8.30E+02	8.70E+01	n	no	ND
Pyridine	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	1.50E+01	n	no	ND

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Table 5. Occurrence Summary of Surface Water Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	National Recommended Water Quality	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)		Max (µg/L)	Min (µg/L)		Max (µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Safrole	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	6.20E-02	c	no	ND
Sulfotep	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	5.30E+00	n	no	ND
Thionazin	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	NA		no	ND
Organochlorine Pesticides_Method 8081																
4,4'-DDD	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	3.10E-04	2.80E-01	c	no	ND
4,4'-DDE	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	2.20E-04	2.00E-01	c	no	ND
4,4'-DDT	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	2.20E-04	2.00E-01	c*	no	ND
4-Chlorobenzilate	0	-	5	0	4.70E-01	-	5.00E-01	–	-	–	–	NA	2.70E-01	c	no	ND
Aldrin	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	4.90E-05	2.10E-04	c	no	ND
Alpha-BHC	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	2.60E-03	6.20E-03	c	no	ND
Beta-BHC	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	9.10E-03	2.20E-02	c	no	ND
Delta-BHC	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	NA	NA		no	ND
Dieldrin	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	5.20E-05	1.50E-03	c	no	ND
Endosulfan I	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	6.20E+01	NA		no	ND
Endosulfan II	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	6.20E+01	NA		no	ND
Endosulfan Sulfate	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	6.20E+01	NA		no	ND
Endrin	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	5.90E-02	1.70E+00	n	no	ND
Endrin Aldehyde	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	2.90E-01	NA		no	ND
Gamma-BHC (Lindane)	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	9.80E-01	3.60E-02	c*	no	ND
Heptachlor	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	7.90E-05	1.80E-03	c	no	ND
Heptachlor Epoxide	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	3.90E-05	3.30E-03	c*	no	ND
Isodrin	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	NA	NA		no	ND
Kepone	0	-	5	0	9.30E-01	-	1.00E+00	–	-	–	–	NA	3.00E-03	c	no	ND
Methoxychlor	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	1.00E+02	2.70E+01	n	no	ND
Technical Chlordane	0	-	5	0	4.70E-01	-	5.00E-01	–	-	–	–	NA	2.70E-02	c*	no	ND
Toxaphene	0	-	5	0	4.70E+00	-	5.00E+00	–	-	–	–	2.80E-04	1.30E-02	c	no	ND
Polychlorinated Biphenyls_Method 8082																
Aroclor-1016	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	NA	9.60E-01	c**	no	ND
Aroclor-1221	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	NA	4.30E-03	c	no	ND
Aroclor-1232	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	NA	4.30E-03	c	no	ND
Aroclor-1242	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	NA	3.40E-02	c	no	ND
Aroclor-1248	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	NA	3.40E-02	c	no	ND
Aroclor-1254	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	NA	3.40E-02	c**	no	ND
Aroclor-1260	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	NA	3.40E-02	c	no	ND
Herbicides_Method 8151																
2,4,5-T	0	-	5	0	4.80E-01	-	4.80E-01	–	-	–	–	NA	1.20E+02	n	no	ND
2,4,5-TP	0	-	5	0	4.80E-01	-	4.80E-01	–	-	–	–	NA	8.40E+01	n	no	ND
2,4-D	0	-	5	0	4.80E-01	-	4.80E-01	–	-	–	–	1.00E+02	1.30E+02	n	no	ND
Dinoseb	0	-	5	0	5.70E+00	-	5.80E+00	–	-	–	–	NA	1.10E+01	n	no	ND
Pentachlorophenol	1	-	5	20	2.40E-01	-	2.40E-01	6.30E-02	-	6.30E-02	SW-AO-SW-02 (032012)	2.70E-01	1.70E-01	c	no	BSL
Dioxathion/Dioxenethion_Method 8310																
cis-Dioxathion	0	-	3	0	2.50E+00	-	2.63E+00	–	-	–	–	NA	NA		no	ND
Dioxenethion	1	-	3	33	5.00E-01	-	5.26E-01	5.82E-01	-	5.82E-01	SW-AO-SW-06 (3/15/2012)	NA	NA		**YES**	NSL
trans-Dioxathion	0	-	3	0	2.50E+00	-	2.63E+00	–	-	–	–	NA	NA		no	ND
Dioxins and Furans_Method 8290																
1,2,3,4,6,7,8-HpCDD	4	-	5	80	4.80E-05	-	4.80E-05	1.50E-06	-	3.10E-06	SW-AO-SW-01 (3/20/2012)	NA	NA		**YES**	NSL
1,2,3,4,6,7,8-HpCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND

See footnotes on the last page.

Table 5. Occurrence Summary of Surface Water Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	National Recommended Water Quality	USEPA Tapwater Regional Screening Level [d,e]		Is Constituent a COPC? [f]	
					Min	-	Max	Min	-	Max						
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
1,2,3,4,7,8,9-HpCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,4,7,8-HxCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,4,7,8-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,6,7,8-HxCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,6,7,8-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,7,8,9-HxCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,7,8,9-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,7,8-PeCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
1,2,3,7,8-PeCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
2,3,4,6,7,8-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
2,3,4,7,8-PeCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	NA		no	ND
2,3,7,8-TCDD	0	-	5	0	9.50E-06	-	9.50E-06	–	-	–	–	5.00E-09	5.20E-07	c*	no	ND
2,3,7,8-TCDF	0	-	5	0	9.50E-06	-	9.50E-06	–	-	–	–	NA	NA		no	ND
Octachlorodibenzofuran	0	-	5	0	9.50E-05	-	9.50E-05	–	-	–	–	NA	NA		no	ND
Octachlorodibenzo-p-Dioxin	5	-	5	100	–	-	–	2.60E-05	-	6.60E-05	SW-AO-SW-05 (3/16/2012)	NA	NA		**YES**	NSL
Total Metals_Method 6020																
Antimony	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	5.60E+00	6.00E+00	n	no	ND
Arsenic	14	-	15	93	2.50E+00	-	2.50E+00	1.40E+00	-	2.40E+00	SW-AO-SW-11 (3/13/2012)	1.80E-02	4.50E-02	c	**YES**	ASL
Barium	15	-	15	100	–	-	–	3.50E+01	-	9.90E+01	SW-AO-SW-07 (3/14/2012),SW-AO-SW-09 (3/14/2012)	1.00E+03	2.90E+03	n	no	BSL
Beryllium	1	-	15	7	5.00E-01	-	5.00E-01	1.50E-01	-	1.50E-01	SW-AO-SW-02 (3/20/2012)	NA	1.60E+01	n	no	BSL
Cadmium	0	-	15	0	5.00E-01	-	5.00E-01	–	-	–	–	NA	6.90E+00	n	no	ND
Chromium	1	-	15	7	5.00E+00	-	5.00E+00	2.50E+00	-	2.50E+00	SW-AO-SW-10 (3/14/2012)	NA	1.60E+04	n	no	BSL
Cobalt	15	-	15	100	–	-	–	3.40E-01	-	5.00E+00	SW-AO-SW-15 (3/13/2012)	NA	4.70E+00	n	**YES**	ASL
Copper	10	-	15	67	5.00E+00	-	5.00E+00	1.50E+00	-	6.40E+00	SW-AO-SW-09 (3/14/2012)	1.30E+03	6.20E+02	n	no	BSL
Lead	7	-	15	47	1.50E+00	-	1.50E+00	5.60E-01	-	3.00E+00	SW-AO-SW-16 (3/12/2012)	NA	NA		**YES**	NSL
Mercury	0	-	15	0	2.00E-01	-	2.00E-01	–	-	–	–	NA	6.30E-01	n	no	ND
Nickel	12	-	15	80	5.00E+00	-	5.00E+00	2.00E+00	-	2.30E+01	SW-AO-SW-15 (3/13/2012)	6.10E+02	3.00E+02	n	no	BSL
Selenium	0	-	15	0	2.50E+00	-	2.50E+00	–	-	–	–	1.70E+02	7.80E+01	n	no	ND
Silver	1	-	15	7	1.00E+00	-	1.00E+00	3.60E-01	-	3.60E-01	SW-AO-SW-01 (3/20/2012)	NA	7.10E+01	n	no	BSL
Thallium	1	-	15	7	1.00E+00	-	1.00E+00	2.60E-01	-	2.60E-01	SW-AO-SW-04 (3/20/2012)	2.40E-01	1.60E-01	n	**YES**	ASL
Tin	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	NA	9.30E+03	n	no	ND
Vanadium	0	-	15	0	1.00E+01	-	1.00E+01	–	-	–	–	NA	7.80E+01	n	no	ND
Zinc	11	-	15	73	2.00E+01	-	2.00E+01	8.70E+00	-	5.50E+01	SW-AO-SW-15 (3/13/2012)	7.40E+03	4.70E+03	n	no	BSL
Other																
Cyanide	0	-	3	0	1.00E+01	-	1.00E+01	–	-	–	–	1.40E+02	9.30E+00	n	no	ND
Sulfide	2	-	3	67	1.00E+03	-	1.00E+03	1.30E+03	-	1.80E+03	SW-AO-SW-05 (3/16/2012)	NA	NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
BSL	Below screening level.	n	Noncancer.		
c	Cancer.	NA	Not available.	µg/L	Microgram per liter.
COPC	Constituent of Potential Concern.	NSL	No screening level.		

[a] All surface water analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] National Recommended Water Quality Criteria (USEPA 2012b).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; and n = non-cancer.

[e] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[f] A constituent detected with a maximum concentration above the minimium of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 6. Occurrence Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max				
	Number of Detects	Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(YES, no)	Rationale
Volatile Organic Compounds_Method 8260													
1,1,1,2-Tetrachloroethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
1,1,1-Trichloroethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	5.28E+02	no	ND
1,1,2,2-Tetrachloroethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	2.40E+02	no	ND
1,1,2-Trichloroethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	9.40E+02	no	ND
1,1-Dichloroethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	3.03E+02	no	ND
1,1-Dichloroethene	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	6.50E+01	no	ND
1,2,3-Trichloropropane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
1,2,4-Trichlorobenzene	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	4.49E+01	no	ND
1,2-Dibromo-3-chloropropane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
1,2-Dibromoethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
1,2-Dichloroethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	2.00E+03	no	ND
1,2-Dichloropropane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	5.25E+02	no	ND
1,4-Dioxane	2	- 15	13	5.00E+01	-	5.00E+01	5.90E+01	-	6.90E+01	SW-AO-SW-07 (3/14/2012)	2.20E+03	no	BSL
2-Butanone	0	- 15	0	1.00E+01	-	1.00E+01	–	-	–	–	2.20E+03	no	ND
2-Chloro-1,3-butadiene	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
2-Hexanone	0	- 15	0	1.00E+01	-	1.00E+01	–	-	–	–	9.90E+01	no	ND
3-Chloropropene	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
4-Methyl-2-pentanone	1	- 15	7	1.00E+01	-	1.00E+01	2.30E+00	-	2.30E+00	SW-AO-SW-15 (3/13/2012)	1.70E+02	no	BSL
Acetone	2	- 15	13	2.50E+01	-	2.50E+01	7.80E+00	-	1.20E+01	SW-AO-SW-16 (3/12/2012)	1.70E+03	no	BSL
Acetonitrile	0	- 15	0	4.00E+01	-	4.00E+01	–	-	–	–	1.20E+04	no	ND
Acrolein	0	- 15	0	2.00E+01	-	2.00E+01	–	-	–	–	2.10E+00	no	ND
Acrylonitrile	0	- 15	0	2.00E+01	-	2.00E+01	–	-	–	–	7.55E+01	no	ND
Benzene	3	- 15	20	1.00E+00	-	1.00E+00	3.30E-01	-	1.40E+01	SW-AO-SW-15 (3/13/2012)	5.30E+01	no	BSL
Bromodichloromethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Bromoform	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	2.93E+02	no	ND
Bromomethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	1.60E+01	no	ND
Carbon Disulfide	1	- 15	7	2.00E+00	-	2.00E+00	3.00E+00	-	3.00E+00	SW-AO-SW-15 (3/13/2012)	1.50E+01	no	BSL
Carbon Tetrachloride	1	- 15	7	1.00E+00	-	1.00E+00	6.30E+01	-	6.30E+01	SW-AO-SW-15 (3/13/2012)	3.52E+02	no	BSL
Chlorobenzene	1	- 15	7	1.00E+00	-	1.00E+00	4.90E-01	-	4.90E-01	SW-AO-SW-15 (3/13/2012)	1.95E+02	no	BSL
Chloroethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Chloroform	4	- 15	27	1.00E+00	-	1.00E+00	2.50E-01	-	3.00E+01	SW-AO-SW-15 (3/13/2012)	2.89E+02	no	BSL
Chloromethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	5.50E+03	no	ND
cis-1,3-Dichloropropene	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Dibromochloromethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Dibromomethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Dichlorodifluoromethane	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Ethyl Methacrylate	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Ethylbenzene	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	4.53E+02	no	ND
Hexachlorobutadiene	0	- 15	0	1.00E+00	-	1.00E+00	–	-	–	–	9.30E-01	no	ND

See footnotes on the last page.

Table 6. Occurrence Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)		Max (µg/L)	Min (µg/L)		Max (µg/L)		(µg/L)	(YES, no)	Rationale
Iodomethane	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	NA	no	ND
Isobutanol	0	-	15	0	4.00E+01	-	4.00E+01	–	-	–	–	NA	no	ND
Methacrylonitrile	0	-	15	0	2.00E+01	-	2.00E+01	–	-	–	–	NA	no	ND
Methyl Methacrylate	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Methylene Chloride	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	1.93E+03	no	ND
Naphthalene	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	6.20E+01	no	ND
Pentachloroethane	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	NA	no	ND
Propionitrile	0	-	15	0	2.00E+01	-	2.00E+01	–	-	–	–	NA	no	ND
Styrene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	3.20E+01	no	ND
Tetrachloroethene	1	-	15	7	1.00E+00	-	1.00E+00	1.60E-01	-	1.60E-01	SW-AO-SW-12 (3/13/2012)	4.50E+01	no	BSL
Toluene	1	-	15	7	1.00E+00	-	1.00E+00	4.70E+00	-	4.70E+00	SW-AO-SW-15 (3/13/2012)	1.75E+02	no	BSL
trans-1,2-Dichloroethene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	9.70E+02	no	ND
trans-1,3-Dichloropropene	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
trans-1,4-Dichloro-2-butene	0	-	15	0	2.00E+00	-	2.00E+00	–	-	–	–	NA	no	ND
Trichloroethene	1	-	15	7	1.00E+00	-	1.00E+00	4.10E-01	-	4.10E-01	SW-AO-SW-12 (3/13/2012)	4.70E+01	no	BSL
Trichlorofluoromethane	0	-	15	0	1.00E+00	-	1.00E+00	–	-	–	–	NA	no	ND
Vinyl Acetate	0	-	15	0	2.00E+00	-	2.00E+00	–	-	–	–	2.48E+02	no	ND
Vinyl Chloride	1	-	15	7	1.00E+00	-	1.00E+00	2.00E-01	-	2.00E-01	SW-AO-SW-12 (3/13/2012)	9.30E+02	no	BSL
Xylenes (total)	0	-	15	0	2.00E+00	-	2.00E+00	–	-	–	–	2.70E+01	no	ND
Volatile Organic Compounds_Method 8011														
1,2-Dibromo-3-chloropropane	0	-	15	0	2.00E-02	-	2.10E-02	–	-	–	–	NA	no	ND
1,2-Dibromoethane	0	-	15	0	2.00E-02	-	2.10E-02	–	-	–	–	NA	no	ND
Semi Volatile Organic Compounds_Method 8270C														
1,1'-Biphenyl	5	-	15	33	9.50E-01	-	2.00E+00	9.90E-02	-	2.90E+00	SW-AO-SW-11 (3/13/2012)	1.40E+01	no	BSL
1,2,4,5-Tetrachlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
1,2,4-Trichlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	4.49E+01	no	ND
1,2-Dichlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.58E+01	no	ND
1,3,5-Trinitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
1,3-Dichlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	5.02E+01	no	ND
1,3-Dinitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	2.20E+01	no	ND
1,4-Dichlorobenzene	1	-	15	7	9.50E-01	-	2.00E+00	1.90E-01	-	1.90E-01	SW-AO-SW-16 (3/12/2012)	1.12E+01	no	BSL
1,4-Dioxane	4	-	14	29	1.90E+00	-	4.00E+00	3.10E-01	-	4.40E+01	SW-AO-SW-06 (3/15/2012)	2.20E+03	no	BSL
1,4-Naphthoquinone	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
1-Naphthylamine	0	-	14	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	no	ND
2,2'-Oxybis(1-Chloropropane)	1	-	15	7	9.40E-01	-	2.00E+00	2.70E-01	-	2.70E-01	SW-AO-SW-15 (3/13/2012)	NA	**YES**	NSL
2,3,4,6-Tetrachlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.20E+00	no	ND
2,4,5-Trichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
2,4,6-Trichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.20E+00	no	ND
2,4-Dichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.65E+01	no	ND
2,4-Dimethylphenol	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	1.00E+02	no	ND
2,4-Dinitrophenol	0	-	15	0	9.40E+00	-	2.00E+01	–	-	–	–	6.20E+00	no	ND
2,4-Dinitrotoluene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.10E+02	no	ND
2,6-Dichlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
2,6-Dinitrotoluene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	8.10E+01	no	ND
2-Acetylaminofluorene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
2-Chloronaphthalene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.96E-01	no	ND

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Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)	-	Max (µg/L)	Min (µg/L)	-	Max (µg/L)		(µg/L)	(YES, no)	Rationale
2-Chlorophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	4.38E+01	no	ND
2-Methylnaphthalene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.30E+02	no	ND
2-Methylphenol	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	6.70E+01	no	ND
2-Naphthylamine	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	no	ND
2-Nitroaniline	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
2-Nitrophenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.50E+03	no	ND
2-Picoline	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	no	ND
3,3'-Dichlorobenzidine	0	-	14	0	1.90E+01	-	4.00E+01	–	-	–	–	4.50E+00	no	ND
3,3'-Dimethylbenzidine	0	-	14	0	1.90E+01	-	4.00E+01	–	-	–	–	NA	no	ND
3-Methylcholanthrene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
3-Nitroaniline	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	no	ND
4,6-Dinitro-2-methylphenol	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	no	ND
4-Aminobiphenyl	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	no	ND
4-Bromophenyl-phenylether	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.50E+00	no	ND
4-Chloro-3-Methylphenol	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.48E+01	no	ND
4-Chloroaniline	0	-	14	0	1.90E+00	-	4.00E+00	–	-	–	–	2.32E+02	no	ND
4-Chlorophenyl-phenylether	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
4-Methylphenol	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	2.50E+01	no	ND
4-Nitroaniline	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	no	ND
4-Nitrophenol	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	8.28E+01	no	ND
4-Nitroquinoline-1-oxide	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	no	ND
4-Phenylenediamine	0	-	14	0	1.90E+02	-	4.00E+02	–	-	–	–	NA	no	ND
5-Nitro-o-toluidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
7,12-Dimethylbenz(a)anthracene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
a,a'-Dimethylphenethylamine	0	-	15	0	9.40E+00	-	2.00E+01	–	-	–	–	NA	no	ND
Acenaphthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	1.70E+01	no	ND
Acenaphthylene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	4.84E+03	no	ND
Acetophenone	6	-	15	40	9.50E-01	-	2.00E+00	1.00E-01	-	3.10E-01	SW-AO-SW-11 (3/13/2012)	NA	**YES**	NSL
Aniline	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	4.10E+00	no	ND
Anthracene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.50E-02	no	ND
Aramite	0	-	15	0	1.40E+00	-	3.00E+00	–	-	–	–	NA	no	ND
Benzo(a)anthracene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	2.50E-02	no	ND
Benzo(a)pyrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	1.40E-02	no	ND
Benzo(b)fluoranthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	9.07E+00	no	ND
Benzo(g,h,i)perylene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	7.64E+00	no	ND
Benzo(k)fluoranthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	NA	no	ND
Benzyl Alcohol	2	-	15	13	9.40E-01	-	2.00E+00	1.40E-01	-	1.80E-01	SW-AO-SW-04 (3/20/2012)	8.60E+00	no	BSL
bis(2-Chloroethoxy)methane	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
bis(2-Chloroethyl)ether	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	2.38E+03	no	ND
bis(2-Ethylhexyl)phthalate	4	-	15	27	1.90E+00	-	4.00E+00	6.10E-01	-	2.20E+00	SW-AO-SW-11 (3/13/2012)	3.00E-01	**YES**	ASL
Butylbenzylphthalate	3	-	15	20	9.40E-01	-	2.00E+00	1.20E-01	-	1.40E-01	SW-AO-SW-03 (3/20/2012)	2.20E+01	no	BSL
Chrysene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	NA	no	ND
Diallate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Dibenzo(a,h)anthracene												NA	no	ND
Dibenzofuran	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	4.00E+00	no	ND
Diethylphthalate	4	-	15	27	9.50E-01	-	2.00E+00	1.10E-01	-	3.60E-01	SW-AO-SW-02 (3/20/2012)	5.21E+02	no	BSL
Dimethoate	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	no	ND

See footnotes on the last page.

Table 6. Occurrence Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(YES, no)	Rationale
Dimethylphthalate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Di-n-Butylphthalate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	9.70E+00	no	ND
Di-n-Octylphthalate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.00E+01	no	ND
Dinoseb	0	-	10	0	1.90E+00	-	4.00E+00	–	-	–	–	4.80E-01	no	ND
Diphenyl Ether	4	-	14	29	9.50E-01	-	2.00E+00	3.00E-01	-	1.10E+01	SW-AO-SW-15 (3/13/2012)	NA	**YES**	NSL
Disulfoton	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	4.02E-02	no	ND
Ethyl Methanesulfonate	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	no	ND
Ethyl Parathion	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	1.30E-02	no	ND
Famphur	0	-	11	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Fluoranthene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.98E+01	no	ND
Fluorene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	1.90E+01	no	ND
Hexachlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	3.00E-04	no	ND
Hexachlorobutadiene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	9.30E-01	no	ND
Hexachlorocyclopentadiene	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	7.00E-02	no	ND
Hexachloroethane	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	9.80E+00	no	ND
Hexachlorophene	0	-	15	0	4.70E+02	-	1.00E+03	–	-	–	–	NA	no	ND
Hexachloropropene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Indeno(1,2,3-cd)pyrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	4.31E+00	no	ND
Isophorone	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	1.17E+03	no	ND
Isosafrole	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Methapyrilene	0	-	15	0	1.90E+02	-	4.00E+02	–	-	–	–	NA	no	ND
Methyl Methanesulfonate	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	no	ND
Methyl Parathion	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Naphthalene	1	-	15	7	1.90E-01	-	4.00E-01	3.60E-01	-	3.60E-01	SW-AO-SW-15 (3/13/2012)	6.20E+01	no	BSL
Nitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	2.70E+02	no	ND
N-Nitrosodiethylamine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
N-Nitroso-di-n-propylamine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
N-Nitrosodiphenylamine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	5.85E+01	no	ND
N-Nitrosomethylethylamine	0	-	15	0	1.90E+00	-	4.00E+00	–	-	–	–	NA	no	ND
N-Nitrosomorpholine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
N-Nitrosopiperidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
N-Nitrosopyrrolidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
o,o,o-Triethylphosphorothioate	3	-	15	20	9.40E-01	-	2.00E+00	1.50E+00	-	2.20E+00	SW-AO-SW-07 (3/14/2012)	NA	**YES**	NSL
o-Toluidine	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
p-Dimethylaminoazobenzene	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	NA	no	ND
Pentachlorobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	5.00E+01	no	ND
Pentachloronitrobenzene	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Pentachlorophenol	0	-	10	0	4.70E+00	-	9.90E+00	–	-	–	–	6.70E+00	no	ND
Phenacetin	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Phenanthrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.60E+00	no	ND
Phenol	2	-	15	13	9.40E-01	-	2.00E+00	2.60E+00	-	5.90E+00	SW-AO-SW-15 (3/13/2012)	1.02E+02	no	BSL
Phorate	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Pronamide	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Pyrene	0	-	15	0	1.90E-01	-	4.00E-01	–	-	–	–	3.00E-01	no	ND
Pyridine	0	-	15	0	4.70E+00	-	1.00E+01	–	-	–	–	2.38E+03	no	ND

See footnotes on the last page.

Table 6. Occurrence Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)		Max (µg/L)	Min (µg/L)		Max (µg/L)		(µg/L)	(YES, no)	Rationale
Safrole	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Sulfotep	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Thionazin	0	-	15	0	9.40E-01	-	2.00E+00	–	-	–	–	NA	no	ND
Organochlorine Pesticides_Method 8081														
4,4'-DDD	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	6.40E-03	no	ND
4,4'-DDE	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	1.05E+01	no	ND
4,4'-DDT	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	1.00E-03	no	ND
4-Chlorobenzilate	0	-	5	0	4.70E-01	-	5.00E-01	–	-	–	–	NA	no	ND
Aldrin	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	3.00E-01	no	ND
Alpha-BHC	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	5.00E+02	no	ND
Beta-BHC	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	5.00E+03	no	ND
Delta-BHC	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	6.67E+02	no	ND
Dieldrin	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	5.60E-02	no	ND
Endosulfan I	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	5.60E-02	no	ND
Endosulfan II	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	5.60E-02	no	ND
Endosulfan Sulfate	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	5.60E-02	no	ND
Endrin	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	3.60E-02	no	ND
Endrin Aldehyde	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	1.50E-01	no	ND
Gamma-BHC (Lindane)	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	8.00E-02	no	ND
Heptachlor	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	3.80E-03	no	ND
Heptachlor Epoxide	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	3.80E-03	no	ND
Isodrin	0	-	5	0	4.70E-02	-	5.00E-02	–	-	–	–	NA	no	ND
Kepone	0	-	5	0	9.30E-01	-	1.00E+00	–	-	–	–	NA	no	ND
Methoxychlor	0	-	5	0	9.30E-02	-	1.00E-01	–	-	–	–	3.00E-02	no	ND
Technical Chlordane	0	-	5	0	4.70E-01	-	5.00E-01	–	-	–	–	4.30E-03	no	ND
Toxaphene	0	-	5	0	4.70E+00	-	5.00E+00	–	-	–	–	NA	no	ND
Polychlorinated Biphenyls_Method 8082														
Aroclor-1016	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	1.40E-02	no	ND
Aroclor-1221	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	1.40E-02	no	ND
Aroclor-1232	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	1.40E-02	no	ND
Aroclor-1242	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	1.40E-02	no	ND
Aroclor-1248	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	1.40E-02	no	ND
Aroclor-1254	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	1.40E-02	no	ND
Aroclor-1260	0	-	5	0	3.80E-01	-	3.80E-01	–	-	–	–	1.40E-02	no	ND
Herbicides_Method 8151														
2,4,5-T	0	-	5	0	4.80E-01	-	4.80E-01	–	-	–	–	NA	no	ND
2,4,5-TP	0	-	5	0	4.80E-01	-	4.80E-01	–	-	–	–	NA	no	ND
2,4-D	0	-	5	0	4.80E-01	-	4.80E-01	–	-	–	–	2.20E+02	no	ND
Dinoseb	0	-	5	0	5.70E+00	-	5.80E+00	–	-	–	–	4.80E-01	no	ND
Pentachlorophenol	1	-	5	20	2.40E-01	-	2.40E-01	6.30E-02	-	6.30E-02	SW-AO-SW-02 (3/20/2012)	6.70E+00	no	BSL
Dioxathion/Dioxenethion_Method 8310														
cis-Dioxathion	0	-	3	0	2.50E+00	-	2.63E+00	–	-	–	–	NA	no	ND
Dioxenethion	1	-	3	33	5.00E-01	-	5.26E-01	5.82E-01	-	5.82E-01	SW-AO-SW-06 (3/15/2012)	NA	**YES**	NSL
trans-Dioxathion	0	-	3	0	2.50E+00	-	2.63E+00	–	-	–	–	NA	no	ND
Dioxins and Furans_Method 8290														
1,2,3,4,6,7,8-HpCDD	4	-	5	80	4.80E-05	-	4.80E-05	1.50E-06	-	3.10E-06	SW-AO-SW-01 (3/20/2012)	NA	**YES**	NSL
1,2,3,4,6,7,8-HpCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND

See footnotes on the last page.

Table 6. Occurrence Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(YES, no)	Rationale
1,2,3,4,7,8,9-HpCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,4,7,8-HxCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,4,7,8-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,6,7,8-HxCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,6,7,8-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,7,8,9-HxCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,7,8,9-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,7,8-PeCDD	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
1,2,3,7,8-PeCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
2,3,4,6,7,8-HxCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
2,3,4,7,8-PeCDF	0	-	5	0	4.80E-05	-	4.80E-05	–	-	–	–	NA	no	ND
2,3,7,8-TCDD	0	-	5	0	9.50E-06	-	9.50E-06	–	-	–	–	1.00E-05	no	ND
2,3,7,8-TCDF	0	-	5	0	9.50E-06	-	9.50E-06	–	-	–	–	NA	no	ND
Octachlorodibenzofuran	0	-	5	0	9.50E-05	-	9.50E-05	–	-	–	–	NA	no	ND
Octachlorodibenzo-p-Dioxin	5	-	5	100	–	-	–	2.60E-05	-	6.60E-05	SW-AO-SW-05 (3/16/2012)	NA	**YES**	NSL
Total Metals_Method 6020														
Antimony	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	1.60E+02	no	ND
Arsenic	14	-	15	93	2.50E+00	-	2.50E+00	1.40E+00	-	2.40E+00	SW-AO-SW-11 (3/13/2012)	1.50E+02	no	BSL
Barium	15	-	15	100	–	-	–	3.50E+01	-	9.90E+01	SW-AO-SW-07 (3/14/2012),SW-AO-SW-09 (3/14/2012)	2.20E+02	no	BSL
Beryllium	1	-	15	7	5.00E-01	-	5.00E-01	1.50E-01	-	1.50E-01	SW-AO-SW-02 (3/20/2012)	5.30E-01	no	BSL
Cadmium	0	-	15	0	5.00E-01	-	5.00E-01	–	-	–	–	1.50E-01	no	ND
Chromium	1	-	15	7	5.00E+00	-	5.00E+00	2.50E+00	-	2.50E+00	SW-AO-SW-10 (3/14/2012)	1.10E+01	no	BSL
Cobalt	15	-	15	100	–	-	–	3.40E-01	-	5.00E+00	SW-AO-SW-15 (3/13/2012)	2.40E+01	no	BSL
Copper	10	-	15	67	5.00E+00	-	5.00E+00	1.50E+00	-	6.40E+00	SW-AO-SW-09 (3/14/2012)	5.00E+00	**YES**	ASL
Lead	7	-	15	47	1.50E+00	-	1.50E+00	5.60E-01	-	3.00E+00	SW-AO-SW-16 (3/12/2012)	1.18E+00	**YES**	ASL
Mercury	0	-	15	0	2.00E-01	-	2.00E-01	–	-	–	–	1.20E-02	no	ND
Nickel	12	-	15	80	5.00E+00	-	5.00E+00	2.00E+00	-	2.30E+01	SW-AO-SW-15 (3/13/2012)	2.90E+01	no	BSL
Selenium	0	-	15	0	2.50E+00	-	2.50E+00	–	-	–	–	4.60E+00	no	ND
Silver	1	-	15	7	1.00E+00	-	1.00E+00	3.60E-01	-	3.60E-01	SW-AO-SW-01 (3/20/2012)	1.20E-02	**YES**	ASL
Thallium	1	-	15	7	1.00E+00	-	1.00E+00	2.60E-01	-	2.60E-01	SW-AO-SW-04 (3/20/2012)	4.00E+00	no	BSL
Tin	0	-	15	0	5.00E+00	-	5.00E+00	–	-	–	–	1.80E+02	no	ND
Vanadium	0	-	15	0	1.00E+01	-	1.00E+01	–	-	–	–	1.20E+01	no	ND
Zinc	11	-	15	73	2.00E+01	-	2.00E+01	8.70E+00	-	5.50E+01	SW-AO-SW-15 (3/13/2012)	6.50E+01	no	BSL
Other														
Cyanide	0	-	3	0	1.00E+01	-	1.00E+01	–	-	–	–	5.20E+00	no	ND
Sulfide	2	-	3	67	1.00E+03	-	1.00E+03	1.30E+03	-	1.80E+03	SW-AO-SW-05 (3/16/2012)	NA	**YES**	NSL

–	Not applicable.	NA	Not available.
ASL	Above screening level.	NSL	No screening level.
BSL	Below screening level.	µg/L	Microgram per liter.
COPC	Constituent of Potential Concern.		

[a] All surface water analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Ecological Screening Levels were obtained using the following hierarchy: 1) Mississippi Water Quality Criteria for Chronic Freshwater (MDEQ 2007); 2) USEPA Revised Region 4 Ecological Screening Values (USEPA 2001); 3) USEPA Region 5 Ecological Screening Values (USEPA 2003); and 4) USEPA Region 3 Ecological Screening Levels (USEPA 2006).

[d] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[e] A constituent detected with a maximum concentration above the Ecological Screening Level is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 7. Occurrence Summary of Sediment Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG[d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects	Number of Samples	(%)	Min (µg/kg)	Max (µg/kg)		Min (µg/kg)	Max (µg/kg)			(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																		
1,1,1,2-Tetrachloroethane	0	14	0	4.50E+00	1.30E+01		–	–		–	2.20E+05	2.46E+04	1.90E+03	c	9.30E+03	c	no	ND
1,1,1-Trichloroethane	0	14	0	4.50E+00	1.30E+01		–	–		–	1.19E+06	1.19E+06	8.70E+06	ns	3.80E+07	ns	no	ND
1,1,2,2-Tetrachloroethane	0	14	0	4.50E+00	1.30E+01		–	–		–	1.00E+03	6.56E+02	5.60E+02	c	2.80E+03	c	no	ND
1,1,2-Trichloroethane	0	14	0	4.50E+00	1.30E+01		–	–		–	1.67E+03	1.09E+03	1.10E+03	c**	5.30E+03	c**	no	ND
1,1-Dichloroethane	0	14	0	4.50E+00	1.30E+01		–	–		–	1.16E+05	1.16E+05	3.30E+03	c	1.70E+04	c	no	ND
1,1-Dichloroethene	1	14	7	4.50E+00	1.30E+01		3.70E+00	3.70E+00		SD-AO-SD-12 (3/13/2012)	1.18E+02	7.72E+01	2.40E+05	n	1.10E+06	n	no	BSL
1,2,3-Trichloropropane	0	14	0	4.50E+00	1.30E+01		–	–		–	8.18E+02	9.12E+01	5.00E+00	c	9.50E+01	c	no	ND
1,2-Dibromo-3-chloropropane	0	14	0	9.00E+00	2.70E+01		–	–		–	9.99E+01	9.99E+01	5.40E+00	c	6.90E+01	c	no	ND
1,2-Dibromoethane	0	14	0	4.50E+00	1.30E+01		–	–		–	6.73E+01	7.51E+00	3.40E+01	c	1.70E+02	c	no	ND
1,2-Dichloroethane	0	14	0	4.50E+00	1.30E+01		–	–		–	6.21E+02	4.06E+02	4.30E+02	c*	2.20E+03	c*	no	ND
1,2-Dichloropropane	0	14	0	4.50E+00	1.30E+01		–	–		–	4.45E+02	4.45E+02	9.40E+02	c*	4.70E+03	c*	no	ND
2-Butanone	7	14	50	2.50E+01	3.10E+01		2.60E+00	5.10E+01		SD-AO-SD-13 (3/13/2012)	8.45E+04	8.45E+04	2.80E+07	n	2.00E+08	nms	no	BSL
2-Chloro-1,3-butadiene	0	14	0	4.50E+00	1.30E+01		–	–		–	4.08E+06	1.56E+06	9.40E+00	c	4.70E+01	c	no	ND
2-Hexanone	0	14	0	2.20E+01	6.70E+01		–	–		–	8.18E+07	3.13E+06	2.10E+05	n	1.40E+06	n	no	ND
3-Chloropropene	0	14	0	4.50E+00	1.30E+01		–	–		–	NA	NA	NA		NA		no	ND
4-Methyl-2-pentanone	0	14	0	2.20E+01	6.70E+01		–	–		–	1.63E+08	6.26E+06	5.30E+06	ns	5.30E+07	ns	no	ND
Acetone	8	14	57	5.20E+01	6.10E+01		1.70E+01	3.60E+02		SD-AO-SD-13 (3/13/2012)	1.04E+08	7.82E+06	6.10E+07	n	6.30E+08	nms	no	BSL
Acetonitrile	0	14	0	1.80E+02	5.40E+02		–	–		–	1.11E+05	1.11E+05	8.70E+05	n	3.70E+06	n	no	ND
Acrolein	0	14	0	9.00E+01	2.70E+02		–	–		–	4.09E+07	1.56E+06	1.50E+02	n	6.50E+02	n	no	ND
Acrylonitrile	0	14	0	9.00E+01	2.70E+02		–	–		–	1.06E+04	1.18E+03	2.40E+02	c*	1.20E+03	c*	no	ND
Benzene	1	14	7	4.50E+00	1.30E+01		1.50E+02	1.50E+02		SD-AO-SD-15 (3/13/2012)	1.36E+03	8.87E+02	1.10E+03	c*	5.40E+03	c*	no	BSL
Bromodichloromethane	0	14	0	4.50E+00	1.30E+01		–	–		–	1.89E+03	1.24E+03	2.70E+02	c	1.40E+03	c	no	ND
Bromoform	0	14	0	4.50E+00	1.30E+01		–	–		–	9.01E+04	5.88E+04	6.20E+04	c*	2.20E+05	c*	no	ND
Bromomethane	0	14	0	4.50E+00	1.30E+01		–	–		–	2.97E+03	2.97E+03	7.30E+03	n	3.20E+04	n	no	ND
Carbon Disulfide	5	14	36	4.90E+00	6.60E+00		3.30E+00	1.20E+01		SD-AO-SD-15 (3/13/2012)	7.97E+03	7.97E+03	8.20E+05	ns	3.70E+06	ns	no	BSL
Carbon Tetrachloride	1	14	7	4.50E+00	1.30E+01		1.60E+00	1.60E+00		SD-AO-SD-15 (3/13/2012)	5.69E+02	3.71E+02	6.10E+02	c	3.00E+03	c	no	BSL
Chlorobenzene	1	14	7	4.50E+00	1.30E+01		3.60E+01	3.60E+01		SD-AO-SD-15 (3/13/2012)	1.19E+03	1.19E+03	2.90E+05	n	1.40E+06	ns	no	BSL
Chloroethane	0	14	0	4.50E+00	1.30E+01		–	–		–	1.97E+06	2.20E+05	1.50E+07	ns	6.10E+07	ns	no	ND
Chloroform	1	14	7	4.50E+00	1.30E+01		1.90E+00	1.90E+00		SD-AO-SD-15 (3/13/2012)	4.78E+02	3.12E+02	2.90E+02	c	1.50E+03	c	no	BSL
Chloromethane	0	14	0	4.50E+00	1.30E+01		–	–		–	4.40E+05	4.91E+04	1.20E+05	n	5.00E+05	n	no	ND
cis-1,3-Dichloropropene	0	14	0	4.50E+00	1.30E+01		–	–		–	3.52E+02	3.52E+02	1.70E+03	c	8.30E+03	c	no	ND
Dibromochloromethane	0	14	0	4.50E+00	1.30E+01		–	–		–	6.81E+04	7.60E+03	6.80E+02	c	3.30E+03	c	no	ND
Dibromomethane	0	14	0	4.50E+00	1.30E+01		–	–		–	2.04E+07	7.82E+05	2.50E+04	n	1.10E+05	n	no	ND
Dichlorodifluoromethane	0	14	0	4.50E+00	1.30E+01		–	–		–	4.09E+08	1.56E+07	9.40E+04	n	4.00E+05	n	no	ND
Ethyl Methacrylate	0	14	0	4.50E+00	1.30E+01		–	–		–	1.84E+07	7.04E+06	1.50E+06	ns	7.50E+06	ns	no	ND
Ethylbenzene	0	14	0	4.50E+00	1.30E+01		–	–		–	3.95E+05	3.95E+05	5.40E+03	c	2.70E+04	c	no	ND

See footnotes on the last page.

Table 7. Occurrence Summary of Sediment Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG[d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min	-	Max	Min	-	Max								(YES, no)	Rationale
					(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)			
Iodomethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	NA	NA		NA		no	ND
Isobutanol	0	-	14	0	1.80E+02	-	5.40E+02	–	-	–	–	6.13E+08	2.35E+07	1.80E+07	n	1.80E+08	nm	no	ND
Methacrylonitrile	0	-	14	0	9.00E+01	-	2.70E+02	–	-	–	–	2.04E+05	7.82E+03	3.20E+03	n	1.80E+04	n	no	ND
Methyl Methacrylate	0	-	14	0	9.00E+00	-	2.70E+01	–	-	–	–	1.63E+07	1.63E+07	4.80E+06	ns	2.10E+07	ns	no	ND
Methylene Chloride	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	2.19E+04	1.43E+04	5.60E+04	c**	9.60E+05	c**	no	ND
Pentachloroethane	0	-	14	0	2.20E+01	-	6.70E+01	–	-	–	–	NA	NA	5.40E+03	c	1.90E+04	c	no	ND
Propionitrile	0	-	14	0	9.00E+01	-	2.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Styrene	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	3.84E+05	3.84E+05	6.30E+06	ns	3.60E+07	ns	no	ND
Tetrachloroethene	1	-	14	7	4.50E+00	-	1.30E+01	1.50E+02	-	1.50E+02	SD-AO-SD-12 (3/13/2012)	1.82E+04	1.19E+04	2.20E+04	c**	1.10E+05	c**	no	BSL
Toluene	5	-	14	36	4.90E+00	-	6.10E+00	1.20E+00	-	3.60E+00	SD-AO-SD-13 (3/13/2012)	3.80E+04	3.80E+04	5.00E+06	ns	4.50E+07	ns	no	BSL
trans-1,2-Dichloroethene	1	-	14	7	4.50E+00	-	1.30E+01	1.20E+01	-	1.20E+01	SD-AO-SD-12 (3/13/2012)	3.07E+06	1.56E+06	1.50E+05	n	6.90E+05	n	no	BSL
trans-1,3-Dichloropropene	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	3.52E+02	3.52E+02	1.70E+03	c	8.30E+03	c	no	ND
trans-1,4-Dichloro-2-butene	0	-	14	0	9.00E+00	-	2.70E+01	–	-	–	–	NA	NA	6.90E+00	c	3.50E+01	c	no	ND
Trichloroethene	1	-	14	7	4.50E+00	-	1.30E+01	3.40E+01	-	3.40E+01	SD-AO-SD-12 (3/13/2012)	7.92E+03	5.17E+03	9.10E+02	c**	6.40E+03	c**	no	BSL
Trichlorofluoromethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	1.43E+08	2.35E+07	7.90E+05	n	3.40E+06	ns	no	ND
Vinyl Acetate	0	-	14	0	9.00E+00	-	2.70E+01	–	-	–	–	9.13E+03	9.13E+03	9.70E+05	n	4.10E+06	ns	no	ND
Vinyl Chloride	1	-	14	7	4.50E+00	-	1.30E+01	6.30E+01	-	6.30E+01	SD-AO-SD-12 (3/13/2012)	9.39E+02	4.26E+02	6.00E+01	c	1.70E+03	c	**YES**	ASL
Xylenes (total)	0	-	14	0	9.00E+00	-	2.70E+01	–	-	–	–	3.18E+05	3.18E+05	6.30E+05	ns	2.70E+06	ns	no	ND
Semi Volatile Organic Compounds_Method 8270C																			
1,1'-Biphenyl	2	-	14	14	3.90E+01	-	4.10E+02	3.80E+02	-	4.20E+03	SD-AO-SD-15 (3/13/2012)	1.02E+07	3.91E+06	5.10E+04	n	2.10E+05	n	no	BSL
1,2,4,5-Tetrachlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	6.13E+05	2.35E+04	1.80E+04	n	1.80E+05	n	no	ND
1,2,4-Trichlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	8.24E+05	7.82E+05	2.20E+04	c**	9.90E+04	c**	no	ND
1,2-Dichlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.79E+05	2.79E+05	1.90E+06	ns	9.80E+06	ns	no	ND
1,3,5-Trinitrobenzene	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	1.02E+05	1.02E+05	2.20E+06	n	2.70E+07	n	no	ND
1,3-Dichlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.84E+06	7.04E+04	NA		NA		no	ND
1,3-Dinitrobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.04E+05	7.82E+03	6.10E+03	n	6.20E+04	n	no	ND
1,4-Dichlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.38E+05	2.66E+04	2.40E+03	c	1.20E+04	c	no	ND
1,4-Dioxane	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	5.20E+05	5.81E+04	4.90E+03	c	1.70E+04	c	no	ND
1,4-Naphthoquinone	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
1-Naphthylamine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	NA	NA		NA		no	ND
2,2'-Oxybis(1-Chloropropane)	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	9.08E+03	5.93E+03	4.60E+03	c	2.20E+04	c	no	ND
2,3,4,6-Tetrachlorophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	6.13E+07	2.35E+06	1.80E+06	n	1.80E+07	n	no	ND
2,4,5-Trichlorophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.04E+08	7.82E+06	6.10E+06	n	6.20E+07	n	no	ND
2,4,6-Trichlorophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	3.14E+05	5.81E+04	4.40E+04	c**	1.60E+05	c**	no	ND
2,4-Dichlorophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	6.13E+05	2.35E+05	1.80E+05	n	1.80E+06	n	no	ND
2,4-Dimethylphenol	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	4.08E+07	1.56E+06	1.20E+06	n	1.20E+07	n	no	ND
2,4-Dinitrophenol	0	-	14	0	3.90E+02	-	7.70E+03	–	-	–	–	4.08E+05	1.56E+05	1.20E+05	n	1.20E+06	n	no	ND
2,4-Dinitrotoluene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.08E+05	1.56E+05	1.60E+03	c*	5.50E+03	c	no	ND
2,6-Dichlorophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
2,6-Dinitrotoluene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.04E+06	7.82E+04	6.10E+04	n	6.20E+05	n	no	ND
2-Acetylaminofluorene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	1.30E+02	c	4.50E+02	c	no	ND
2-Chloronaphthalene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.64E+08	6.26E+06	6.30E+06	ns	8.20E+07	ns	no	ND

See footnotes on the last page.

Table 7. Occurrence Summary of Sediment Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG[d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
2-Chlorophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.02E+07	3.91E+05	3.90E+05	n	5.10E+06	n	no	ND
2-Methylnaphthalene	0	-	14	0	7.90E+00	-	1.60E+02	–	-	–	–	4.09E+07	1.56E+06	2.30E+05	n	2.20E+06	ns	no	ND
2-Methylphenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.02E+08	3.91E+06	3.10E+06	n	3.10E+07	n	no	ND
2-Naphthylamine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	NA	2.70E+02	c	9.60E+02	c	no	ND
2-Nitroaniline	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	4.92E+02	4.92E+02	6.10E+05	n	6.00E+06	n	no	ND
2-Nitrophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
2-Picoline	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	NA	NA		NA		no	ND
3,3'-Dichlorobenzidine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	1.27E+04	1.42E+03	1.10E+03	c	3.80E+03	c	no	ND
3,3'-Dimethylbenzidine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	6.22E+02	6.94E+01	4.40E+01	c	1.60E+02	c	no	ND
3-Methylcholanthrene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	5.20E+00	c	7.80E+01	c	no	ND
3-Nitroaniline	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	NA	NA	NA		NA		no	ND
4,6-Dinitro-2-methylphenol	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	2.04E+05	7.82E+03	4.90E+03	n	4.90E+04	n	no	ND
4-Aminobiphenyl	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	NA	2.30E+01	c	8.20E+01	c	no	ND
4-Bromophenyl-phenylether	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
4-Chloro-3-Methylphenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.08E+08	1.56E+08	6.10E+06	n	6.20E+07	n	no	ND
4-Chloroaniline	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	8.17E+05	3.13E+05	2.40E+03	c	8.60E+03	c	no	ND
4-Chlorophenyl-phenylether	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
4-Methylphenol	1	-	14	7	3.90E+01	-	7.70E+02	2.90E+01	-	2.90E+01	SD-AO-SD-14 (3/13/2012)	1.02E+07	3.91E+05	6.10E+06	n	6.20E+07	n	no	BSL
4-Nitroaniline	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	NA	NA	2.40E+04	c*	8.60E+04	c*	no	ND
4-Nitrophenol	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	1.64E+07	6.26E+05	NA		NA		no	ND
4-Nitroquinoline-1-oxide	0	-	14	0	3.90E+02	-	7.70E+03	–	-	–	–	NA	NA	NA		NA		no	ND
4-Phenylenediamine	0	-	9	0	9.80E+02	-	1.90E+04	–	-	–	–	3.88E+08	1.49E+07	1.20E+07	n	1.20E+08	nm	no	ND
5-Nitro-o-toluidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.73E+05	1.94E+04	5.40E+04	c*	1.90E+05	c*	no	ND
7,12-Dimethylbenz(a)anthracene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	4.30E-01	c	6.20E+00	c	no	ND
a,a'-Dimethylphenethylamine	0	-	13	0	7.90E+03	-	1.60E+05	–	-	–	–	NA	NA	NA		NA		no	ND
Acenaphthene	2	-	14	14	8.40E+00	-	1.60E+02	6.30E+00	-	6.30E+00	SD-AO-SD-02 (3/20/2012),SD-AO-SD-14 (3/13/2012)	1.23E+08	4.69E+06	3.40E+06	n	3.30E+07	n	no	BSL
Acenaphthylene	0	-	14	0	7.90E+00	-	1.60E+02	–	-	–	–	1.23E+08	4.69E+06	NA		NA		no	ND
Acetophenone	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.63E+06	2.63E+06	7.80E+06	ns	1.00E+08	nms	no	ND
Aniline	1	-	14	7	7.80E+01	-	1.50E+03	1.40E+02	-	1.40E+02	SD-AO-SD-16 (3/12/2012)	1.00E+06	1.12E+05	8.50E+04	c**	3.00E+05	c*	no	BSL
Anthracene	2	-	14	14	8.40E+00	-	1.60E+02	3.90E+00	-	9.40E+00	SD-AO-SD-14 (3/13/2012)	6.13E+08	2.35E+07	1.70E+07	n	1.70E+08	nm	no	BSL
Aramite	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	NA	1.90E+04	c	6.90E+04	c	no	ND
Benzo(a)anthracene	4	-	14	29	7.90E+00	-	1.60E+02	4.60E+00	-	3.80E+01	SD-AO-SD-14 (3/13/2012)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	no	BSL
Benzo(a)pyrene	5	-	14	36	8.50E+00	-	1.60E+02	4.10E+00	-	4.10E+01	SD-AO-SD-14 (3/13/2012)	7.84E+02	8.75E+01	1.50E+01	c	2.10E+02	c	**YES**	ASL
Benzo(b)fluoranthene	5	-	14	36	7.90E+00	-	8.40E+01	4.90E+00	-	1.60E+02	SD-AO-SD-13 (3/13/2012)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	**YES**	ASL
Benzo(g,h,i)perylene	4	-	14	29	7.90E+00	-	1.60E+02	5.10E+00	-	2.70E+01	SD-AO-SD-14 (3/13/2012)	6.13E+07	2.35E+06	NA		NA		no	BSL
Benzo(k)fluoranthene	5	-	14	36	8.50E+00	-	1.60E+02	3.50E+00	-	4.30E+01	SD-AO-SD-14 (3/13/2012)	7.84E+04	8.75E+03	1.50E+03	c	2.10E+04	c	no	BSL
Benzyl Alcohol	5	-	14	36	3.90E+01	-	7.70E+02	9.40E+00	-	1.40E+02	SD-AO-SD-12 (3/13/2012)	2.04E+08	2.35E+07	6.10E+06	n	6.20E+07	n	no	BSL
bis(2-Chloroethoxy)methane	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	1.80E+05	n	1.80E+06	n	no	ND
bis(2-Chloroethyl)ether	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.19E+02	2.73E+02	2.10E+02	c	1.00E+03	c	no	ND
bis(2-Ethylhexyl)phthalate	4	-	14	29	8.30E+01	-	1.50E+03	1.20E+01	-	8.90E+02	SD-AO-SD-01 (3/20/2012)	4.09E+05	4.56E+04	3.50E+04	c*	1.20E+05	c	no	BSL
Butylbenzylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	9.28E+05	9.28E+05	2.60E+05	c*	9.10E+05	c	no	ND
Chrysene	5	-	14	36	7.90E+00	-	1.60E+02	6.10E+00	-	4.90E+01	SD-AO-SD-14 (3/13/2012)	7.84E+05	8.75E+04	1.50E+04	c	2.10E+05	c	no	BSL
Diallate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	8.00E+03	c	2.80E+04	c	no	ND
Dibenzo(a,h)anthracene	1	-	14	7	7.90E+00	-	1.60E+02	1.20E+01	-	1.20E+01	SD-AO-SD-14 (3/13/2012)	7.84E+02	8.75E+01	1.50E+01	c	2.10E+02	c	no	BSL
Dibenzofuran	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	8.18E+06	3.13E+05	7.80E+04	n	1.00E+06	ns	no	ND
Diethylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.97E+06	1.97E+06	4.90E+07	n	4.90E+08	nm	no	ND
Dimethoate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	1.20E+04	n	1.20E+05	n	no	ND

See footnotes on the last page.

Table 7. Occurrence Summary of Sediment Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG[d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)		Max (µg/kg)	Min (µg/kg)		Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Dimethylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.04E+10	7.82E+08	NA		NA		no	ND
Di-n-Butylphthalate	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	2.28E+06	2.28E+06	6.10E+06	n	6.20E+07	n	no	ND
Di-n-Octylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.08E+06	1.56E+06	NA		NA		no	ND
Dinoseb	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	2.04E+05	7.82E+04	6.10E+04	n	6.20E+05	n	no	ND
Diphenyl Ether	5	-	14	36	3.90E+01	-	4.10E+02	3.60E+01	-	2.80E+04	SD-AO-SD-15 (3/13/2012)	NA	NA	NA		NA		**YES**	NSL
Disulfoton	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	8.17E+03	3.13E+03	2.40E+03	n	2.50E+04	n	no	ND
Ethyl Methanesulfonate	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	NA	NA		NA		no	ND
Ethyl Parathion	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.23E+06	4.69E+05	3.70E+05	n	3.70E+06	n	no	ND
Famphur	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Fluoranthene	8	-	14	57	8.50E+00	-	8.20E+01	6.40E+00	-	1.80E+02	SD-AO-SD-13 (3/13/2012)	8.17E+07	3.13E+06	2.30E+06	n	2.20E+07	n	no	BSL
Fluorene	2	-	14	14	8.40E+00	-	1.60E+02	6.30E+00	-	7.00E+00	SD-AO-SD-02 (3/20/2012)	8.17E+07	3.13E+06	2.30E+06	n	2.20E+07	n	no	BSL
Hexachlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.65E+03	3.99E+02	3.00E+02	c	1.10E+03	c	no	ND
Hexachlorobutadiene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.35E+02	8.82E+01	6.20E+03	c**	2.20E+04	c*	no	ND
Hexachlorocyclopentadiene	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	9.51E+02	9.51E+02	3.70E+05	n	3.70E+06	n	no	ND
Hexachloroethane	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	9.33E+04	4.56E+04	1.20E+04	c**	4.30E+04	c*	no	ND
Hexachlorophene	0	-	13	0	2.00E+04	-	3.90E+05	–	-	–	–	6.13E+05	2.35E+04	1.80E+04	n	1.80E+05	n	no	ND
Hexachloropropene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Indeno(1,2,3-cd)pyrene	4	-	14	29	7.90E+00	-	1.60E+02	5.00E+00	-	3.00E+01	SD-AO-SD-14 (3/13/2012)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	no	BSL
Isophorone	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.57E+06	6.72E+05	5.10E+05	c*	1.80E+06	c*	no	ND
Isosafrole	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Methapyrilene	0	-	14	0	7.90E+03	-	1.60E+05	–	-	–	–	NA	NA	NA		NA		no	ND
Methyl Methanesulfonate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	4.90E+03	c	1.70E+04	c	no	ND
Methyl Parathion	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.08E+05	1.96E+04	1.50E+04	n	1.50E+05	n	no	ND
Naphthalene	1	-	14	7	7.90E+00	-	1.60E+02	7.50E+00	-	7.50E+00	SD-AO-SD-14 (3/13/2012)	2.47E+05	1.94E+05	3.60E+03	c*	1.80E+04	c*	no	BSL
Nitrobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	8.41E+03	8.41E+03	4.80E+03	c*	2.40E+04	c*	no	ND
N-Nitrosodiethylamine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	3.82E+01	4.26E+00	7.70E-01	c	1.10E+01	c	no	ND
N-Nitrosodimethylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.12E+02	1.25E+01	2.30E+00	c	3.40E+01	c	no	ND
N-Nitroso-di-n-butylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.06E+03	1.18E+02	8.70E+01	c	4.00E+02	c	no	ND
N-Nitroso-di-n-propylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	8.18E+02	9.12E+01	6.90E+01	c	2.50E+02	c	no	ND
N-Nitrosodiphenylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.17E+06	1.30E+05	9.90E+04	c	3.50E+05	c	no	ND
N-Nitrosomethylethylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.60E+02	2.90E+01	2.20E+01	c	7.80E+01	c	no	ND
N-Nitrosomorpholine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	7.30E+01	c	2.60E+02	c	no	ND
N-Nitrosopiperidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	5.20E+01	c	1.80E+02	c	no	ND
N-Nitrosopyrrolidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.73E+03	3.04E+02	2.30E+02	c	8.20E+02	c	no	ND
o,o,o-Triethylphosphorothioate	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	NA	NA		NA		no	ND
o-Toluidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.38E+04	2.66E+03	NA		NA		no	ND
p-Dimethylaminoazobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	1.10E+02	c	3.70E+02	c	no	ND
Pentachlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.63E+06	6.26E+04	4.90E+04	n	4.90E+05	n	no	ND
Pentachloronitrobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.20E+04	2.46E+03	1.90E+03	c*	6.60E+03	c	no	ND
Pentachlorophenol	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	2.38E+04	2.66E+03	8.90E+02	c	2.70E+03	c	no	ND
Phenacetin	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	2.20E+05	c	7.80E+05	c	no	ND
Phenanthrene	5	-	14	36	8.50E+00	-	1.60E+02	3.40E+00	-	4.40E+01	SD-AO-SD-07(3/14/2012)	6.13E+07	2.35E+06	NA		NA		no	BSL
Phenol	1	-	14	7	3.90E+01	-	7.70E+02	9.30E+01	-	9.30E+01	SD-AO-SD-15 (3/13/2012)	1.23E+08	4.69E+07	1.80E+07	n	1.80E+08	nm	no	BSL
Phorate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	1.20E+04	n	1.20E+05	n	no	ND
Pronamide	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	4.60E+06	n	4.60E+07	n	no	ND
Pyrene	7	-	14	50	8.50E+00	-	8.40E+01	6.20E+00	-	1.30E+02	SD-AO-SD-13 (3/13/2012)	6.13E+07	2.35E+06	1.70E+06	n	1.70E+07	n	no	BSL
Pyridine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.04E+06	7.82E+04	7.80E+04	n	1.00E+06	n	no	ND

See footnotes on the last page.

Table 7. Occurrence Summary of Sediment Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG[d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)		Max (µg/kg)	Min (µg/kg)		Max (µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Safrole	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	5.20E+02	c	7.80E+03	c	no	ND
Sulfotep	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	3.10E+04	n	3.10E+05	n	no	ND
Thionazin	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	NA	NA		NA		no	ND
Organochlorine Pesticides_Method 8081																			
4,4'-DDD	1	-	14	7	3.60E+00	-	7.60E+00	1.60E+01	-	1.60E+01	SD-AO-SD-12 (3/13/2012)	2.38E+04	2.66E+03	2.00E+03	c	7.20E+03	c	no	BSL
4,4'-DDE	3	-	14	21	3.60E+00	-	4.40E+00	8.10E-01	-	7.20E+00	SD-AO-SD-12 (3/13/2012)	1.68E+04	1.88E+03	1.40E+03	c	5.10E+03	c	no	BSL
4,4'-DDT	4	-	14	29	3.60E+00	-	5.40E+00	5.70E-01	-	1.30E+01	SD-AO-SD-13 (3/13/2012)	1.68E+04	1.88E+03	1.70E+03	c*	7.00E+03	c*	no	BSL
4-Chlorobenzilate	0	-	14	0	1.80E+01	-	3.90E+01	–	-	–	–	2.12E+04	2.37E+03	4.40E+03	c	1.60E+04	c	no	ND
Aldrin	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	3.37E+02	3.76E+01	2.90E+01	c*	1.00E+02	c	no	ND
Alpha-BHC	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	9.08E+02	1.01E+02	7.70E+01	c	2.70E+02	c	no	ND
Beta-BHC	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	3.18E+03	3.55E+02	2.70E+02	c	9.60E+02	c	no	ND
Delta-BHC	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	NA	NA	NA		NA		no	ND
Dieldrin	4	-	14	29	3.80E+00	-	7.60E+00	5.20E-01	-	2.00E+00	SD-AO-SD-16 (3/12/2012)	3.58E+02	3.99E+01	3.00E+01	c	1.10E+02	c	no	BSL
Endosulfan I	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	1.23E+06	4.69E+05	NA		NA		no	ND
Endosulfan II	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	1.23E+06	4.69E+05	NA		NA		no	ND
Endosulfan Sulfate	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	NA	NA	NA		NA		no	ND
Endrin	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	6.13E+04	2.35E+04	1.80E+04	n	1.80E+05	n	no	ND
Endrin Aldehyde	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	NA	NA	NA		NA		no	ND
Gamma-BHC (Lindane)	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	4.40E+03	4.91E+02	5.20E+02	c*	2.10E+03	c	no	ND
Heptachlor	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	1.95E+02	1.27E+02	1.10E+02	c	3.80E+02	c	no	ND
Heptachlor Epoxide	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	6.29E+02	7.02E+01	5.30E+01	c*	1.90E+02	c*	no	ND
Isodrin	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	NA	NA	NA		NA		no	ND
Kepone	0	-	14	0	1.80E+02	-	3.90E+02	–	-	–	–	NA	NA	4.90E+01	c	1.70E+02	c	no	ND
Methoxychlor	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	1.02E+06	3.91E+05	3.10E+05	n	3.10E+06	n	no	ND
Technical Chlordane	0	-	14	0	1.80E+01	-	3.90E+01	–	-	–	–	1.23E+04	1.82E+03	1.60E+03	c*	6.50E+03	c*	no	ND
Toxaphene	0	-	14	0	1.80E+02	-	3.90E+02	–	-	–	–	5.20E+03	5.81E+02	4.40E+02	c	1.60E+03	c	no	ND
Polychlorinated Biphenyls_Method 8082																			
Aroclor-1016	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	1.00E+04	1.00E+03	3.90E+03	n	2.10E+04	c**	no	ND
Aroclor-1221	0	-	14	0	7.20E+01	-	1.50E+02	–	-	–	–	1.00E+04	1.00E+03	1.40E+02	c	5.40E+02	c	no	ND
Aroclor-1232	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	1.00E+04	1.00E+03	1.40E+02	c	5.40E+02	c	no	ND
Aroclor-1242	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	1.00E+04	1.00E+03	2.20E+02	c	7.40E+02	c	no	ND
Aroclor-1248	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	1.00E+04	1.00E+03	2.20E+02	c	7.40E+02	c	no	ND
Aroclor-1254	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	1.00E+04	1.00E+03	2.20E+02	c**	7.40E+02	c*	no	ND
Aroclor-1260	1	-	14	7	3.60E+01	-	7.60E+01	6.60E+01	-	6.60E+01	SD-AO-SD-15 (3/13/2012)	1.00E+04	1.00E+03	2.20E+02	c	7.40E+02	c	no	BSL
Herbicides_Method 8151																			
2,4,5-T	0	-	13	0	8.90E+00	-	1.90E+01	–	-	–	–	2.04E+07	7.82E+05	6.10E+05	n	6.20E+06	n	no	ND
2,4,5-TP	0	-	13	0	8.90E+00	-	1.90E+01	–	-	–	–	1.63E+06	6.26E+05	4.90E+05	n	4.90E+06	n	no	ND
2,4-D	0	-	13	0	8.90E+00	-	1.90E+01	–	-	–	–	2.04E+06	7.82E+05	6.90E+05	n	7.70E+06	n	no	ND
Dioxathion/Dioxenethion_Method 8310																			
cis-Dioxathion	10	-	14	71	8.26E+01	-	8.48E+01	2.29E+02	-	1.53E+03	SD-AO-SD-16 (3/12/2012)	3.07E+06	1.17E+05	NA		NA		no	BSL
Dioxenethion	7	-	14	50	5.02E-01	-	1.68E+01	1.71E+01	-	1.08E+03	SD-AO-SD-01 (3/20/2012)	NA	NA	NA		NA		**YES**	NSL
trans-Dioxathion	5	-	14	36	5.06E-01	-	8.48E+01	7.47E+01	-	2.64E+02	SD-AO-SD-15 (3/13/2012)	3.07E+06	1.17E+05	NA		NA		no	BSL
Dioxins and Furans_Method 8290																			
1,2,3,4,6,7,8-HpCDD	14	-	14	100	–	-	–	1.20E-02	-	1.40E+00	SD-AO-SD-13 (3/13/2012)	3.82E+00	4.26E-01	NA		NA		**YES**	ASL
1,2,3,4,6,7,8-HpCDF	13	-	14	93	6.30E-03	-	6.30E-03	2.20E-03	-	1.70E-01	SD-AO-SD-13 (3/13/2012)	3.82E+00	4.26E-01	NA		NA		no	BSL

See footnotes on the last page.

Table 7. Occurrence Summary of Sediment Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG[d]	USEPA Residential Regional Screening Level [e,f]		USEPA Industrial Regional Screening Level [f,g]		Is Constituent a COPC? [h]	
					Min	-	Max	Min	-	Max									
	Number of Detects		Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
1,2,3,4,7,8,9-HpCDF	6	-	14	43	4.80E-03	-	6.30E-03	3.50E-04	-	1.60E-02	SD-AO-SD-13 (3/13/2012)	3.82E+00	4.26E-01	NA		NA		no	BSL
1,2,3,4,7,8-HxCDD	11	-	14	79	4.90E-03	-	6.30E-03	3.00E-04	-	1.70E-02	SD-AO-SD-13 (3/13/2012)	3.82E-01	4.26E-02	NA		NA		no	BSL
1,2,3,4,7,8-HxCDF	10	-	14	71	4.90E-03	-	6.30E-03	3.10E-04	-	9.80E-03	SD-AO-SD-13 (3/13/2012)	3.82E-01	4.26E-02	NA		NA		no	BSL
1,2,3,6,7,8-HxCDD	14	-	14	100	–	-	–	5.70E-04	-	4.90E-02	SD-AO-SD-13 (3/13/2012)	9.23E-01	1.03E-01	NA		NA		no	BSL
1,2,3,6,7,8-HxCDF	13	-	14	93	6.30E-03	-	6.30E-03	1.30E-04	-	2.30E-02	SD-AO-SD-13 (3/13/2012)	3.82E-01	4.26E-02	NA		NA		no	BSL
1,2,3,7,8,9-HxCDD	14	-	14	100	–	-	–	4.30E-04	-	4.00E-02	SD-AO-SD-13 (3/13/2012)	9.23E-01	1.03E-01	NA		NA		no	BSL
1,2,3,7,8,9-HxCDF	1	-	14	7	4.80E-03	-	6.30E-03	4.30E-04	-	4.30E-04	SD-AO-SD-13 (3/13/2012)	3.82E-01	4.26E-02	NA		NA		no	BSL
1,2,3,7,8-PeCDD	5	-	14	36	4.80E-03	-	6.30E-03	4.00E-04	-	7.70E-03	SD-AO-SD-13 (3/13/2012)	7.63E-02	8.52E-03	NA		NA		no	BSL
1,2,3,7,8-PeCDF	1	-	14	7	4.80E-03	-	6.30E-03	1.70E-03	-	1.70E-03	SD-AO-SD-13 (3/13/2012)	7.63E-01	8.52E-02	NA		NA		no	BSL
2,3,4,6,7,8-HxCDF	5	-	14	36	4.80E-03	-	6.30E-03	4.00E-04	-	5.50E-03	SD-AO-SD-13 (3/13/2012)	3.82E-01	4.26E-02	NA		NA		no	BSL
2,3,4,7,8-PeCDF	3	-	14	21	4.80E-03	-	6.30E-03	3.10E-04	-	2.90E-03	SD-AO-SD-13 (3/13/2012)	7.63E-01	8.52E-03	NA		NA		no	BSL
2,3,7,8-TCDD	1	-	14	7	9.60E-04	-	1.30E-03	2.70E-04	-	2.70E-04	SD-AO-SD-13 (3/13/2012)	3.82E-02	4.26E-03	4.50E-03	c*	1.80E-02	c*	no	BSL
2,3,7,8-TCDF	4	-	14	29	9.70E-04	-	1.30E-03	2.60E-04	-	2.70E-03	SD-AO-SD-13 (3/13/2012)	3.82E-01	4.26E-02	NA		NA		no	BSL
Octachlorodibenzofuran	13	-	14	93	1.30E-02	-	1.30E-02	3.70E-03	-	4.60E-01	SD-AO-SD-16 (3/12/2012)	3.82E+01	4.26E+00	NA		NA		no	BSL
Octachlorodibenzo-p-Dioxin	14	-	14	100	–	-	–	1.20E-01	-	1.20E+01	SD-AO-SD-13 (3/13/2012)	3.82E+01	4.26E+00	NA		NA		**YES**	ASL
Total Metals_Method 6020																			
Antimony	0	-	14	0	2.00E+03	-	4.50E+03	–	-	–	–	8.17E+04	3.13E+04	3.10E+04	n	4.10E+05	n	no	ND
Arsenic	14	-	14	100	–	-	–	4.60E+02	-	1.40E+04	SD-AO-SD-01 (3/20/2012)	3.82E+03	4.26E+02	3.90E+02	c*	1.60E+03	c	**YES**	ASL
Barium	14	-	14	100	–	-	–	6.50E+03	-	7.60E+05	SD-AO-SD-01 (3/20/2012)	1.43E+07	5.48E+06	1.50E+07	n	1.90E+08	nm	no	BSL
Beryllium	13	-	14	93	1.10E+02	-	1.10E+02	8.10E+01	-	4.20E+03	SD-AO-SD-04 (3/20/2012)	1.02E+06	1.56E+05	1.60E+05	n	2.00E+06	n	no	BSL
Cadmium	9	-	14	64	1.10E+02	-	1.20E+02	3.50E+01	-	7.30E+02	SD-AO-SD-13 (3/13/2012)	1.02E+06	3.91E+04	7.00E+04	n	8.00E+05	n	no	BSL
Chromium	14	-	14	100	–	-	–	1.20E+03	-	3.00E+04	SD-AO-SD-01 (3/20/2012)	3.07E+09	1.17E+08	1.20E+08	n	1.50E+09	n	no	BSL
Cobalt	14	-	14	100	–	-	–	4.70E+02	-	1.80E+05	SD-AO-SD-15 (3/13/2012)	1.23E+07	4.69E+06	2.30E+04	n	3.00E+05	n	**YES**	ASL
Copper	14	-	14	100	–	-	–	7.80E+02	-	5.50E+04	SD-AO-SD-13 (3/13/2012)	8.17E+06	3.13E+06	3.10E+06	n	4.10E+07	n	no	BSL
Lead	14	-	14	100	–	-	–	1.60E+03	-	8.70E+04	SD-AO-SD-09 (3/14/2012)	1.70E+06	4.00E+05	4.00E+05	L	8.00E+05	L	no	BSL
Mercury	4	-	14	29	2.10E+01	-	2.60E+01	2.80E+01	-	1.80E+02	SD-AO-SD-13 (3/13/2012)	6.13E+04	1.00E+04	1.00E+04	ns	4.30E+04	ns	no	BSL
Nickel	13	-	14	93	1.10E+03	-	1.10E+03	1.10E+03	-	5.30E+05	SD-AO-SD-15 (3/13/2012)	4.08E+06	1.56E+06	1.50E+06	n	2.00E+07	n	no	BSL
Selenium	1	-	14	7	1.00E+03	-	2.30E+03	7.90E+02	-	7.90E+02	SD-AO-SD-01 (3/20/2012)	1.02E+06	3.91E+05	3.90E+05	n	5.10E+06	n	no	BSL
Silver	2	-	14	14	2.00E+02	-	3.10E+02	3.20E+02	-	1.70E+03	SD-AO-SD-13 (3/13/2012)	1.02E+06	3.91E+05	3.90E+05	n	5.10E+06	n	no	BSL
Thallium	4	-	14	29	2.00E+02	-	2.60E+02	1.90E+02	-	5.20E+02	SD-AO-SD-01 (3/20/2012)	1.43E+05	5.48E+03	7.80E+02	n	1.00E+04	n	no	BSL
Tin	0	-	14	0	2.00E+04	-	4.50E+04	–	-	–	–	1.23E+08	4.69E+07	4.70E+07	n	6.10E+08	nm	no	ND
Vanadium	14	-	14	100	–	-	–	1.50E+03	-	5.50E+04	SD-AO-SD-01 (3/20/2012)	1.43E+06	5.48E+05	3.90E+05	n	5.20E+06	n	no	BSL
Zinc	14	-	14	100	–	-	–	4.90E+03	-	6.70E+05	SD-AO-SD-13 (3/13/2012)	6.13E+07	2.35E+07	2.30E+07	n	3.10E+08	nm	no	BSL
Other																			
Cyanide	5	-	14	36	5.40E+02	-	7.80E+02	2.50E+02	-	6.30E+02	SD-AO-SD-13 (3/13/2012),SD-AO-SD-15 (3/13/2012)	4.08E+06	1.56E+06	4.70E+04	n	6.10E+05	n	no	BSL
Sulfide	0	-	14	0	5.40E+04	-	1.30E+05	–	-	–	–	NA	NA	NA		NA		no	ND

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal	
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.	
BSL	Below screening level.	n	Noncancer.			
c	Cancer.	NA	Not available.	µg/kg	Microgram per kilogram.	
COPC	Constituent of Potential Concern.	NSL	No screening level.			

[a] All sediment analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Restricted Soil Target Remediation Goal (MDEQ 2002).

[d] Mississippi Department of Environmental Quality Tier 1 Unrestricted Soil Target Remediation Goal (MDEQ 2002).

[e] The screening levels used were the USEPA Residential Soil Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; m=concentration may exceed ceiling limit; n = non-cancer; and ns=concentration may exceed the saturated concentration (Csat).

[f] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[g] The screening levels used were the USEPA Industrial Soil Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; m=concentration may exceed ceiling limit; n = non-cancer; and ns=concentration may exceed the saturated concentration (Csat).

[h] A constituent detected with a maximum concentration above the minimium of USEPA RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 8. Occurrence Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(YES, no)	Rationale
Volatile Organic Compounds_Method 8260														
1,1,1,2-Tetrachloroethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
1,1,1-Trichloroethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	2.13E+02	no	ND
1,1,2,2-Tetrachloroethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	8.50E+02	no	ND
1,1,2-Trichloroethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	5.18E+02	no	ND
1,1-Dichloroethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	5.75E-01	no	ND
1,1-Dichloroethene	1	-	14	7	4.50E+00	-	1.30E+01	3.70E+00	-	3.70E+00	SD-AO-SD-12 (3/13/2012)	1.94E+01	no	BSL
1,2,3-Trichloropropane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
1,2-Dibromo-3-chloropropane	0	-	14	0	9.00E+00	-	2.70E+01	–	-	–	–	NA	no	ND
1,2-Dibromoethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
1,2-Dichloroethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	2.60E+02	no	ND
1,2-Dichloropropane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	3.33E+02	no	ND
2-Butanone	7	-	14	50	2.50E+01	-	3.10E+01	2.60E+00	-	5.10E+01	SD-AO-SD-13 (3/13/2012)	4.24E+01	**YES**	ASL
2-Chloro-1,3-butadiene	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
2-Hexanone	0	-	14	0	2.20E+01	-	6.70E+01	–	-	–	–	5.82E+01	no	ND
3-Chloropropene	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
4-Methyl-2-pentanone	0	-	14	0	2.20E+01	-	6.70E+01	–	-	–	–	2.51E+01	no	ND
Acetone	8	-	14	57	5.20E+01	-	6.10E+01	1.70E+01	-	3.60E+02	SD-AO-SD-13 (3/13/2012)	9.90E+00	**YES**	ASL
Acetonitrile	0	-	14	0	1.80E+02	-	5.40E+02	–	-	–	–	5.60E+01	no	ND
Acrolein	0	-	14	0	9.00E+01	-	2.70E+02	–	-	–	–	1.52E-03	no	ND
Acrylonitrile	0	-	14	0	9.00E+01	-	2.70E+02	–	-	–	–	1.20E+00	no	ND
Benzene	1	-	14	7	4.50E+00	-	1.30E+01	1.50E+02	-	1.50E+02	SD-AO-SD-15 (3/13/2012)	1.42E+02	**YES**	ASL
Bromodichloromethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Bromoform	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	4.92E+02	no	ND
Bromomethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	1.37E-01	no	ND
Carbon Disulfide	5	-	14	36	4.90E+00	-	6.60E+00	3.30E+00	-	1.20E+01	SD-AO-SD-15 (3/13/2012)	2.39E+01	no	BSL
Carbon Tetrachloride	1	-	14	7	4.50E+00	-	1.30E+01	1.60E+00	-	1.60E+00	SD-AO-SD-15 (3/13/2012)	1.45E+03	no	BSL
Chlorobenzene	1	-	14	7	4.50E+00	-	1.30E+01	3.60E+01	-	3.60E+01	SD-AO-SD-15 (3/13/2012)	2.91E+02	no	BSL
Chloroethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Chloroform	1	-	14	7	4.50E+00	-	1.30E+01	1.90E+00	-	1.90E+00	SD-AO-SD-15 (3/13/2012)	1.21E+02	no	BSL
Chloromethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
cis-1,3-Dichloropropene	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Dibromochloromethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Dibromomethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Dichlorodifluoromethane	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Ethyl Methacrylate	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Ethylbenzene	0	-	14	0	4.50E+00	-	1.30E+01	–	-	–	–	1.75E+02	no	ND

See footnotes on the last page.

Table 8. Occurrence Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max				
	Number of Detects	Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Iodomethane	0	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Isobutanol	0	14	0	1.80E+02	-	5.40E+02	–	-	–	–	NA	no	ND
Methacrylonitrile	0	14	0	9.00E+01	-	2.70E+02	–	-	–	–	NA	no	ND
Methyl Methacrylate	0	14	0	9.00E+00	-	2.70E+01	–	-	–	–	NA	no	ND
Methylene Chloride	0	14	0	4.50E+00	-	1.30E+01	–	-	–	–	1.59E+02	no	ND
Pentachloroethane	0	14	0	2.20E+01	-	6.70E+01	–	-	–	–	NA	no	ND
Propionitrile	0	14	0	9.00E+01	-	2.70E+02	–	-	–	–	NA	no	ND
Styrene	0	14	0	4.50E+00	-	1.30E+01	–	-	–	–	2.54E+02	no	ND
Tetrachloroethene	1	14	7	4.50E+00	-	1.30E+01	1.50E+02	-	1.50E+02	SD-AO-SD-12 (3/13/2012)	9.90E+02	no	BSL
Toluene	5	14	36	4.90E+00	-	6.10E+00	1.20E+00	-	3.60E+00	SD-AO-SD-13 (3/13/2012)	1.22E+03	no	BSL
trans-1,2-Dichloroethene	1	14	7	4.50E+00	-	1.30E+01	1.20E+01	-	1.20E+01	SD-AO-SD-12 (3/13/2012)	6.54E+02	no	BSL
trans-1,3-Dichloropropene	0	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
trans-1,4-Dichloro-2-butene	0	14	0	9.00E+00	-	2.70E+01	–	-	–	–	NA	no	ND
Trichloroethene	1	14	7	4.50E+00	-	1.30E+01	3.40E+01	-	3.40E+01	SD-AO-SD-12 (3/13/2012)	1.12E+02	no	BSL
Trichlorofluoromethane	0	14	0	4.50E+00	-	1.30E+01	–	-	–	–	NA	no	ND
Vinyl Acetate	0	14	0	9.00E+00	-	2.70E+01	–	-	–	–	1.30E+01	no	ND
Vinyl Chloride	1	14	7	4.50E+00	-	1.30E+01	6.30E+01	-	6.30E+01	SD-AO-SD-12 (3/13/2012)	2.02E+02	no	BSL
Xylenes (total)	0	14	0	9.00E+00	-	2.70E+01	–	-	–	–	4.33E+02	no	ND
Semi Volatile Organic Compounds_Method 8270C													
1,1'-Biphenyl	2	14	14	3.90E+01	-	4.10E+02	3.80E+02	-	4.20E+03	SD-AO-SD-15 (3/13/2012)	1.22E+03	**YES**	ASL
1,2,4,5-Tetrachlorobenzene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
1,2,4-Trichlorobenzene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
1,2-Dichlorobenzene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
1,3,5-Trinitrobenzene	0	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
1,3-Dichlorobenzene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
1,3-Dinitrobenzene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	8.61E+00	no	ND
1,4-Dichlorobenzene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
1,4-Dioxane	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
1,4-Naphthoquinone	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
1-Naphthylamine	0	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
2,2'-Oxybis(1-Chloropropane)	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
2,3,4,6-Tetrachlorophenol	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.29E+02	no	ND
2,4,5-Trichlorophenol	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
2,4,6-Trichlorophenol	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.08E+02	no	ND
2,4-Dichlorophenol	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	8.17E+01	no	ND
2,4-Dimethylphenol	0	14	0	7.80E+01	-	1.50E+03	–	-	–	–	3.04E+02	no	ND
2,4-Dinitrophenol	0	14	0	3.90E+02	-	7.70E+03	–	-	–	–	6.21E+00	no	ND
2,4-Dinitrotoluene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.44E+01	no	ND
2,6-Dichlorophenol	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
2,6-Dinitrotoluene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	3.98E+01	no	ND
2-Acetylaminofluorene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
2-Chloronaphthalene	0	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.17E+02	no	ND

See footnotes on the last page.

Table 8. Occurrence Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(YES, no)	Rationale
2-Chlorophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	3.19E+01	no	ND
2-Methylnaphthalene	0	-	14	0	7.90E+00	-	1.60E+02	–	-	–	–	3.30E+02	no	ND
2-Methylphenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	5.54E+01	no	ND
2-Naphthylamine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
2-Nitroaniline	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	NA	no	ND
2-Nitrophenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
2-Picoline	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
3,3'-Dichlorobenzidine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	1.27E+02	no	ND
3,3'-Dimethylbenzidine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
3-Methylcholanthrene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
3-Nitroaniline	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	NA	no	ND
4,6-Dinitro-2-methylphenol	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	NA	no	ND
4-Aminobiphenyl	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
4-Bromophenyl-phenylether	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.55E+03	no	ND
4-Chloro-3-Methylphenol	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	3.88E+02	no	ND
4-Chloroaniline	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	1.46E+02	no	ND
4-Chlorophenyl-phenylether	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
4-Methylphenol	1	-	14	7	3.90E+01	-	7.70E+02	2.90E+01	-	2.90E+01	SD-AO-SD-14 (3/13/2012)	2.02E+01	**YES**	ASL
4-Nitroaniline	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	NA	no	ND
4-Nitrophenol	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	1.33E+01	no	ND
4-Phenylenediamine	0	-	9	0	9.80E+02	-	1.90E+04	–	-	–	–	NA	no	ND
5-Nitro-o-toluidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
7,12-Dimethylbenz(a)anthracene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
a,a'-Dimethylphenethylamine	0	-	13	0	7.90E+03	-	1.60E+05	–	-	–	–	NA	no	ND
Acenaphthene	2	-	14	14	8.40E+00	-	1.60E+02	6.30E+00	-	6.30E+00	SD-AO-SD-02 (3/20/2012),SD-AO-SD-14 (3/13/2012)	3.30E+02	no	BSL
Acenaphthylene	0	-	14	0	7.90E+00	-	1.60E+02	–	-	–	–	3.30E+02	no	ND
Acetophenone	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Aniline	1	-	14	7	7.80E+01	-	1.50E+03	1.40E+02	-	1.40E+02	SD-AO-SD-16 (3/12/2012)	3.10E-01	**YES**	ASL
Anthracene	2	-	14	14	8.40E+00	-	1.60E+02	3.90E+00	-	9.40E+00	SD-AO-SD-14 (3/13/2012)	3.30E+02	no	BSL
Aramite	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
Benzo(a)anthracene	4	-	14	29	7.90E+00	-	1.60E+02	4.60E+00	-	3.80E+01	SD-AO-SD-14 (3/13/2012)	3.30E+02	no	BSL
Benzo(a)pyrene	5	-	14	36	8.50E+00	-	1.60E+02	4.10E+00	-	4.10E+01	SD-AO-SD-14 (3/13/2012)	3.30E+02	no	BSL
Benzo(b)fluoranthene	5	-	14	36	7.90E+00	-	8.40E+01	4.90E+00	-	1.60E+02	SD-AO-SD-13 (3/13/2012)	1.04E+04	no	BSL
Benzo(g,h,i)perylene	4	-	14	29	7.90E+00	-	1.60E+02	5.10E+00	-	2.70E+01	SD-AO-SD-14 (3/13/2012)	1.70E+02	no	BSL
Benzo(k)fluoranthene	5	-	14	36	8.50E+00	-	1.60E+02	3.50E+00	-	4.30E+01	SD-AO-SD-14 (3/13/2012)	2.40E+02	no	BSL
Benzyl Alcohol	5	-	14	36	3.90E+01	-	7.70E+02	9.40E+00	-	1.40E+02	SD-AO-SD-12 (3/13/2012)	1.04E+00	**YES**	ASL
bis(2-Chloroethoxy)methane	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
bis(2-Chloroethyl)ether	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	3.52E+03	no	ND
bis(2-Ethylhexyl)phthalate	4	-	14	29	8.30E+01	-	1.50E+03	1.20E+01	-	8.90E+02	SD-AO-SD-01 (3/20/2012)	1.82E+02	**YES**	ASL
Butylbenzylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.97E+03	no	ND
Chrysene	5	-	14	36	7.90E+00	-	1.60E+02	6.10E+00	-	4.90E+01	SD-AO-SD-14 (3/13/2012)	3.30E+02	no	BSL
Diallate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Dibenzo(a,h)anthracene	1	-	14	7	7.90E+00	-	1.60E+02	1.20E+01	-	1.20E+01	SD-AO-SD-14 (3/13/2012)	3.30E+02	no	BSL
Dibenzofuran	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.49E+02	no	ND
Diethylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.95E+02	no	ND
Dimethoate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND

See footnotes on the last page.

Table 8. Occurrence Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/kg)	-	Max (µg/kg)	Min (µg/kg)	-	Max (µg/kg)		(µg/kg)	(YES, no)	Rationale
Dimethylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Di-n-Butylphthalate	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	1.11E+03	no	ND
Di-n-Octylphthalate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.06E+04	no	ND
Dinoseb	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	1.45E+01	no	ND
Diphenyl Ether	5	-	14	36	3.90E+01	-	4.10E+02	3.60E+01	-	2.80E+04	SD-AO-SD-15 (3/13/2012)	NA	**YES**	NSL
Disulfoton	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	3.24E+02	no	ND
Ethyl Methanesulfonate	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
Ethyl Parathion	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	7.57E-01	no	ND
Famphur	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Fluoranthene	8	-	14	57	8.50E+00	-	8.20E+01	6.40E+00	-	1.80E+02	SD-AO-SD-13 (3/13/2012)	3.30E+02	no	BSL
Fluorene	2	-	14	14	8.40E+00	-	1.60E+02	6.30E+00	-	7.00E+00	SD-AO-SD-02 (3/20/2012)	3.30E+02	no	BSL
Hexachlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.00E+01	no	ND
Hexachlorobutadiene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Hexachlorocyclopentadiene	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	9.01E+02	no	ND
Hexachloroethane	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	5.84E+02	no	ND
Hexachlorophene	0	-	13	0	2.00E+04	-	3.90E+05	–	-	–	–	NA	no	ND
Hexachloropropene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Indeno(1,2,3-cd)pyrene	4	-	14	29	7.90E+00	-	1.60E+02	5.00E+00	-	3.00E+01	SD-AO-SD-14 (3/13/2012)	2.00E+02	no	BSL
Isophorone	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	4.32E+02	no	ND
Isosafrole	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Methapyrilene	0	-	14	0	7.90E+03	-	1.60E+05	–	-	–	–	NA	no	ND
Methyl Methanesulfonate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Methyl Parathion	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Naphthalene	1	-	14	7	7.90E+00	-	1.60E+02	7.50E+00	-	7.50E+00	SD-AO-SD-14 (3/13/2012)	NA	**YES**	NSL
Nitrobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.45E+02	no	ND
N-Nitrosodiethylamine	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
N-Nitrosodimethylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
N-Nitroso-di-n-butylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
N-Nitroso-di-n-propylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
N-Nitrosodiphenylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.68E+03	no	ND
N-Nitrosomethylethylamine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
N-Nitrosomorpholine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
N-Nitrosopiperidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
N-Nitrosopyrrolidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
o,o,o-Triethylphosphorothioate	0	-	14	0	7.80E+01	-	1.50E+03	–	-	–	–	NA	no	ND
o-Toluidine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
p-Dimethylaminoazobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Pentachlorobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	2.40E+01	no	ND
Pentachloronitrobenzene	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Pentachlorophenol	0	-	14	0	2.00E+02	-	3.90E+03	–	-	–	–	2.30E+04	no	ND
Phenacetin	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Phenanthrene	5	-	14	36	8.50E+00	-	1.60E+02	3.40E+00	-	4.40E+01	SD-AO-SD-07 (3/14/2012)	3.30E+02	no	BSL
Phenol	1	-	14	7	3.90E+01	-	7.70E+02	9.30E+01	-	9.30E+01	SD-AO-SD-15 (3/13/2012)	4.91E+01	**YES**	ASL
Phorate	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Pronamide	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Pyrene	7	-	14	50	8.50E+00	-	8.40E+01	6.20E+00	-	1.30E+02	SD-AO-SD-13 (3/13/2012)	3.30E+02	no	BSL
Pyridine	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	1.06E+02	no	ND

See footnotes on the last page.

Table 8. Occurrence Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Safrole	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Sulfotep	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Thionazin	0	-	14	0	3.90E+01	-	7.70E+02	–	-	–	–	NA	no	ND
Organochlorine Pesticides_Method 8081														
4,4'-DDD	1	-	14	7	3.60E+00	-	7.60E+00	1.60E+01	-	1.60E+01	SD-AO-SD-12 (3/13/2012)	3.30E+00	**YES**	ASL
4,4'-DDE	3	-	14	21	3.60E+00	-	4.40E+00	8.10E-01	-	7.20E+00	SD-AO-SD-12 (3/13/2012)	3.30E+00	**YES**	ASL
4,4'-DDT	4	-	14	29	3.60E+00	-	5.40E+00	5.70E-01	-	1.30E+01	SD-AO-SD-13 (3/13/2012)	3.30E+00	**YES**	ASL
4-Chlorobenzilate	0	-	14	0	1.80E+01	-	3.90E+01	–	-	–	–	NA	no	ND
Aldrin	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	2.00E+00	no	ND
Alpha-BHC	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	6.00E+00	no	ND
Beta-BHC	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	5.00E+00	no	ND
Delta-BHC	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	7.15E+04	no	ND
Dieldrin	4	-	14	29	3.80E+00	-	7.60E+00	5.20E-01	-	2.00E+00	SD-AO-SD-16 (3/12/2012)	3.30E+00	no	BSL
Endosulfan I	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	3.26E+00	no	ND
Endosulfan II	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	1.94E+00	no	ND
Endosulfan Sulfate	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	3.46E+00	no	ND
Endrin	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	3.30E+00	no	ND
Endrin Aldehyde	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	4.80E+02	no	ND
Gamma-BHC (Lindane)	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	3.30E+00	no	ND
Heptachlor	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	6.00E-01	no	ND
Heptachlor Epoxide	0	-	14	0	1.80E+00	-	3.90E+00	–	-	–	–	2.47E+00	no	ND
Isodrin	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	NA	no	ND
Kepone	0	-	14	0	1.80E+02	-	3.90E+02	–	-	–	–	NA	no	ND
Methoxychlor	0	-	14	0	3.60E+00	-	7.60E+00	–	-	–	–	1.36E+01	no	ND
Technical Chlordane	0	-	14	0	1.80E+01	-	3.90E+01	–	-	–	–	3.24E+00	no	ND
Toxaphene	0	-	14	0	1.80E+02	-	3.90E+02	–	-	–	–	NA	no	ND
Polychlorinated Biphenyls_Method 8082														
Aroclor-1016	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	5.98E+01	no	ND
Aroclor-1221	0	-	14	0	7.20E+01	-	1.50E+02	–	-	–	–	6.70E+04	no	ND
Aroclor-1232	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	5.98E+01	no	ND
Aroclor-1242	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	5.98E+01	no	ND
Aroclor-1248	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	5.98E+01	no	ND
Aroclor-1254	0	-	14	0	3.60E+01	-	7.60E+01	–	-	–	–	5.98E+01	no	ND
Aroclor-1260	1	-	14	7	3.60E+01	-	7.60E+01	6.60E+01	-	6.60E+01	SD-AO-SD-15 (3/13/2012)	5.98E+01	**YES**	ASL
Herbicides_Method 8151														
2,4,5-T	0	-	13	0	8.90E+00	-	1.90E+01	–	-	–	–	NA	no	ND
2,4,5-TP	0	-	13	0	8.90E+00	-	1.90E+01	–	-	–	–	NA	no	ND
2,4-D	0	-	13	0	8.90E+00	-	1.90E+01	–	-	–	–	1.27E+03	no	ND
Dioxathion/Dioxenethion_Method 8310														
cis-Dioxathion	10	-	14	71	8.26E+01	-	8.48E+01	2.29E+02	-	1.53E+03	SD-AO-SD-16 (3/12/2012)	NA	**YES**	NSL
Dioxenethion	7	-	14	50	5.02E-01	-	1.68E+01	1.71E+01	-	1.08E+03	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
trans-Dioxathion	5	-	14	36	5.06E-01	-	8.48E+01	7.47E+01	-	2.64E+02	SD-AO-SD-15 (3/13/2012)	NA	**YES**	NSL
Dioxins and Furans_Method 8290														
1,2,3,4,6,7,8-HpCDD	14	-	14	100	–	-	–	1.20E-02	-	1.40E+00	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,4,6,7,8-HpCDF	13	-	14	93	6.30E-03	-	6.30E-03	2.20E-03	-	1.70E-01	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL

See footnotes on the last page.

Table 8. Occurrence Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
1,2,3,4,7,8,9-HpCDF	6	-	14	43	4.80E-03	-	6.30E-03	3.50E-04	-	1.60E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDD	11	-	14	79	4.90E-03	-	6.30E-03	3.00E-04	-	1.70E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDF	10	-	14	71	4.90E-03	-	6.30E-03	3.10E-04	-	9.80E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDD	14	-	14	100	–	-	–	5.70E-04	-	4.90E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDF	13	-	14	93	6.30E-03	-	6.30E-03	1.30E-04	-	2.30E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDD	14	-	14	100	–	-	–	4.30E-04	-	4.00E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDF	1	-	14	7	4.80E-03	-	6.30E-03	4.30E-04	-	4.30E-04	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDD	5	-	14	36	4.80E-03	-	6.30E-03	4.00E-04	-	7.70E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDF	1	-	14	7	4.80E-03	-	6.30E-03	1.70E-03	-	1.70E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
2,3,4,6,7,8-HxCDF	5	-	14	36	4.80E-03	-	6.30E-03	4.00E-04	-	5.50E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
2,3,4,7,8-PeCDF	3	-	14	21	4.80E-03	-	6.30E-03	3.10E-04	-	2.90E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
2,3,7,8-TCDD	1	-	14	7	9.60E-04	-	1.30E-03	2.70E-04	-	2.70E-04	SD-AO-SD-13 (3/13/2012)	1.20E-04	**YES**	ASL
2,3,7,8-TCDF	4	-	14	29	9.70E-04	-	1.30E-03	2.60E-04	-	2.70E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
Octachlorodibenzofuran	13	-	14	93	1.30E-02	-	1.30E-02	3.70E-03	-	4.60E-01	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
Octachlorodibenzo-p-Dioxin	14	-	14	100	–	-	–	1.20E-01	-	1.20E+01	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
Total Metals_Method 6020														
Antimony	0	-	14	0	2.00E+03	-	4.50E+03	–	-	–	–	1.20E+04	no	ND
Arsenic	14	-	14	100	–	-	–	4.60E+02	-	1.40E+04	SD-AO-SD-01 (3/20/2012)	7.24E+03	**YES**	ASL
Barium	14	-	14	100	–	-	–	6.50E+03	-	7.60E+05	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
Beryllium	13	-	14	93	1.10E+02	-	1.10E+02	8.10E+01	-	4.20E+03	SD-AO-SD-04 (3/20/2012)	NA	**YES**	NSL
Cadmium	9	-	14	64	1.10E+02	-	1.20E+02	3.50E+01	-	7.30E+02	SD-AO-SD-13 (3/13/2012)	6.76E+02	**YES**	ASL
Chromium	14	-	14	100	–	-	–	1.20E+03	-	3.00E+04	SD-AO-SD-01 (3/20/2012)	5.23E+04	no	BSL
Cobalt	14	-	14	100	–	-	–	4.70E+02	-	1.80E+05	SD-AO-SD-15 (3/13/2012)	5.00E+04	**YES**	ASL
Copper	14	-	14	100	–	-	–	7.80E+02	-	5.50E+04	SD-AO-SD-13 (3/13/2012)	1.87E+04	**YES**	ASL
Lead	14	-	14	100	–	-	–	1.60E+03	-	8.70E+04	SD-AO-SD-09(3/14/2012)	3.02E+04	**YES**	ASL
Mercury	4	-	14	29	2.10E+01	-	2.60E+01	2.80E+01	-	1.80E+02	SD-AO-SD-13 (3/13/2012)	1.30E+02	**YES**	ASL
Nickel	13	-	14	93	1.10E+03	-	1.10E+03	1.10E+03	-	5.30E+05	SD-AO-SD-15 (3/13/2012)	1.59E+04	**YES**	ASL
Selenium	1	-	14	7	1.00E+03	-	2.30E+03	7.90E+02	-	7.90E+02	SD-AO-SD-01 (3/20/2012)	2.00E+03	no	BSL
Silver	2	-	14	14	2.00E+02	-	3.10E+02	3.20E+02	-	1.70E+03	SD-AO-SD-13 (3/13/2012)	2.00E+03	no	BSL
Thallium	4	-	14	29	2.00E+02	-	2.60E+02	1.90E+02	-	5.20E+02	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
Tin	0	-	14	0	2.00E+04	-	4.50E+04	–	-	–	–	NA	no	ND
Vanadium	14	-	14	100	–	-	–	1.50E+03	-	5.50E+04	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
Zinc	14	-	14	100	–	-	–	4.90E+03	-	6.70E+05	SD-AO-SD-13 (3/13/2012)	1.24E+05	**YES**	ASL
Other														
Cyanide	5	-	14	36	5.40E+02	-	7.80E+02	2.50E+02	-	6.30E+02	SD-AO-SD-13 (3/13/2012),SD-AO-SD-15 (3/13/2012)	1.00E-01	**YES**	ASL
Sulfide	0	-	14	0	5.40E+04	-	1.30E+05	–	-	–	–	NA	no	ND

–	Not applicable.	NA	Not available.
ASL	Above screening level.	NSL	No screening level.
BSL	Below screening level.	µg/kg	Microgram per kilogram.
COPC	Constituent of Potential Concern.		

[a] All sediment analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Ecological Screening Levels were obtained using the following hierarchy: 1) USEPA Revised Region 4 Ecological Screening Values (USEPA 2001); 2) USEPA Region 5 Ecological Screening Values (USEPA 2003); and 3) USEPA Region 3 Ecological Screening Levels (USEPA 2006).

[d] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[e] A constituent detected with a maximum concentration above the Ecological Screening Level is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 9. Maximum Detection Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d]		Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max						
	Number of Detects	Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260															
1,2-Dichloroethane	1	-	23	4	1.00E+00	-	1.30E+03	3.30E-01	-	3.30E-01	GW-AO-GP-24D (3/29/2012)	5.00E+00	1.50E-01	c*	**YES** ASL
1,4-Dioxane	1	-	23	4	5.00E+01	-	6.30E+04	8.30E+01	-	8.30E+01	GW-AO-GP-03 (4/2/2012)	6.09E+00	6.70E-01	c	**YES** ASL
Benzene	6	-	23	26	1.00E+00	-	1.00E+00	3.60E-01	-	1.60E+03	GW-AO-GP-28D (3/30/2012)	5.00E+00	3.90E-01	c*	**YES** ASL
Carbon Tetrachloride	3	-	23	13	1.00E+00	-	1.00E+00	5.20E-01	-	1.20E+05	GW-AO-GP-28D (3/30/2012)	5.00E+00	3.90E-01	c	**YES** ASL
Chlorobenzene	5	-	23	22	1.00E+00	-	1.00E+00	3.90E+00	-	4.00E+02	GW-AO-GP-28D (3/30/2012)	1.00E+02	7.20E+01	n	**YES** ASL
Chloroform	2	-	23	9	1.00E+00	-	1.00E+00	5.20E+03	-	2.30E+04	GW-AO-GP-28D (3/30/2012)	1.55E-01	1.90E-01	c	**YES** ASL
Ethylbenzene	4	-	23	17	1.00E+00	-	1.30E+03	1.20E-01	-	4.40E+02	GW-AO-GP-21 (04/03/12)	7.00E+02	1.30E+00	c	**YES** ASL
Naphthalene	2	-	23	9	5.00E+00	-	6.30E+03	2.40E+00	-	5.70E+02	GW-AO-GP-21 (04/03/12)	6.20E+00	1.40E-01	c*	**YES** ASL
Trichloroethene	1	-	23	4	1.00E+00	-	5.00E+02	2.50E+02	-	2.50E+02	GW-AO-GP-28D (3/30/2012)	5.00E+00	4.40E-01	c**	**YES** ASL
Xylenes (total)	3	-	23	13	2.00E+00	-	2.50E+03	3.90E-01	-	5.50E+02	GW-AO-GP-21 (04/03/12)	1.00E+04	1.90E+02	n	**YES** ASL
Volatile Organic Compounds_Method 8011															
1,2-Dibromoethane	1	-	23	4	2.00E-02	-	2.10E-02	1.50E-02	-	1.50E-02	GW-AO-GP-25 (3/28/2012)	5.00E-02	6.50E-03	c	**YES** ASL
Semi Volatile Organic Compounds_Method 8270C															
1,1'-Biphenyl	4	-	23	17	9.50E-01	-	9.50E+00	9.70E-02	-	1.60E+06	GW-AO-GP-28D (3/30/2012)	3.04E+02	8.30E-01	n	**YES** ASL
1,4-Dioxane	9	-	23	39	1.90E+00	-	3.90E+05	3.20E-01	-	2.00E+02	GW-AO-GP-03 (4/2/2012)	6.09E+00	6.70E-01	c	**YES** ASL
2-Methylnaphthalene	1	-	23	4	1.90E-01	-	3.90E+04	6.50E+01	-	6.50E+01	GW-AO-GP-21 (04/03/12)	1.22E+02	2.70E+01	n	**YES** ASL
2-Nitrophenol	1	-	23	4	9.50E-01	-	1.90E+05	6.40E-01	-	6.40E-01	GW-AO-GP-31 (3/28/2012)	4.16E-01	NA		**YES** ASL
bis(2-Ethylhexyl)phthalate	5	-	23	22	1.90E+00	-	3.90E+05	6.50E-01	-	1.90E+00	GW-AO-GP-19D (3/28/2012)	6.00E+00	7.10E-02	c*	**YES** ASL
Dibenzo(a,h)anthracene	1	-	23	4	1.90E-01	-	3.90E+04	1.10E-01	-	1.10E-01	GW-AO-GP-30S (3/29/2012)	9.17E-03	2.90E-03	c	**YES** ASL
Diphenyl Ether	14	-	23	61	9.50E-01	-	9.50E+00	1.20E-01	-	4.70E+06	GW-AO-GP-28D (3/30/2012)	NA	NA		**YES** NSL
Indeno(1,2,3-cd)pyrene	1	-	23	4	1.90E-01	-	3.90E+04	9.80E-02	-	9.80E-02	GW-AO-GP-30S (3/29/2012)	9.17E-02	2.90E-02	c	**YES** ASL
Naphthalene	2	-	23	9	1.90E-01	-	3.90E+04	1.20E+01	-	3.80E+02	GW-AO-GP-21 (4/3/2012)	6.20E+00	1.40E-01	c*	**YES** ASL
Pentachlorophenol	1	-	22	5	4.70E+00	-	9.70E+05	4.40E+01	-	4.40E+01	GW-AO-GP-21 (4/3/2012)	1.00E+00	1.70E-01	c	**YES** ASL
Dioxathion/Dioxenethion_Method 8310															
Dioxenethion	1	-	2	50	5.00E-01	-	5.00E-01	9.42E+00	-	9.42E+00	GW-AO-GP-04 (03/30/12)	NA	NA		**YES** NSL
Total Metals_Method 6020															
Arsenic	15	-	23	65	2.50E+00	-	2.50E+00	1.30E+00	-	5.70E+01	GW-AO-GP-21 (4/3/2012)	5.00E+01	4.50E-02	c	**YES** ASL
Cobalt	23	-	23	100	–	-	–	5.20E-01	-	5.00E+01	GW-AO-GP-26 (4/2/2012)	2.19E+03	4.70E+00	n	**YES** ASL
Lead	6	-	21	29	1.50E+00	-	2.20E+00	6.20E-01	-	3.50E+01	GW-AO-GP-28D (3/30/2012)	1.50E+01	NA		**YES** ASL
Thallium	4	-	23	17	1.00E+00	-	1.00E+00	2.80E-01	-	3.90E-01	GW-AO-GP-29S (3/27/2012)	2.00E+00	1.60E-01	n	**YES** ASL
Vanadium	5	-	23	22	1.00E+01	-	1.00E+01	3.60E+00	-	8.60E+01	GW-AO-GP-28D (3/30/2012)	2.56E+02	7.80E+01	n	**YES** ASL
Other															
Sulfide	1	-	2	50	1.00E+03	-	1.00E+03	3.10E+03	-	3.10E+03	GW-AO-GP-04 (3/30/2012)	NA	NA		**YES** NSL

–	Not applicable.	MDEQ	Mississippi Department	TRG	Target Remediation Goal
ASL	Above screening level.		of Environmental Quality	USEPA	United States Environmental
c	Cancer.	n	Noncancer.		Protection Agency.
COPC	Constituent of Potential Concern.	NA	Not available.	µg/L	Microgram per liter.
		NSL	No screening level.		

[a] All temporary groundwater monitoring analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Target Remediation Goal (MDEQ 2002).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; and n = non-cancer.

[e] A constituent detected with a maximum concentration above the minimum of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 10. Maximum Detection Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d]		Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)	-	Max (µg/L)	Min (µg/L)	-	Max (µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																
4-Methyl-2-pentanone	2	-	23	9	1.00E+01	-	2.00E+03	2.10E+01	-	1.10E+03	MW-23(7/26/2011)	1.39E+02	1.00E+03	n	**YES**	ASL
Benzene	7	-	23	30	1.00E+00	-	1.00E+00	1.00E+01	-	8.80E+03	MW-23(7/26/2011)	5.00E+00	3.90E-01	c*	**YES**	ASL
Carbon Tetrachloride	4	-	23	17	1.00E+00	-	1.00E+02	3.50E+00	-	2.50E+04	MW-17(7/26/2011)	5.00E+00	3.90E-01	c	**YES**	ASL
Chlorobenzene	8	-	23	35	1.00E+00	-	1.00E+00	8.70E+00	-	7.70E+02	MW-17(7/26/2011)	1.00E+02	7.20E+01	n	**YES**	ASL
Chloroform	6	-	23	26	1.00E+00	-	1.00E+00	3.30E+00	-	4.30E+03	MW-21(7/26/2011)	1.55E-01	1.90E-01	c	**YES**	ASL
Ethylbenzene	2	-	23	9	1.00E+00	-	2.00E+02	1.30E+00	-	6.10E+01	MW-08 (7/26/2011)	7.00E+02	1.30E+00	c	**YES**	ASL
Methylene Chloride	1	-	23	4	5.00E+00	-	1.00E+03	3.50E+02	-	3.50E+02	MW-08 (7/26/2011)	5.00E+00	9.90E+00	c**	**YES**	ASL
Toluene	4	-	23	17	1.00E+00	-	2.00E+02	1.10E+00	-	2.60E+03	MW-21(7/26/2011)	1.00E+03	8.60E+02	n	**YES**	ASL
Semi Volatile Organic Compounds_Method 8270C																
1,1'-Biphenyl	1	-	8	13	9.90E+00	-	1.00E+03	7.70E+02	-	7.70E+02	MW-19(7/26/2011)	3.04E+02	8.30E-01	n	**YES**	ASL
1,4-Dioxane	4	-	8	50	9.90E+00	-	1.00E+03	2.30E+01	-	1.30E+04	MW-08(7/26/2011)	6.09E+00	6.70E-01	c	**YES**	ASL
o,o,o-Triethylphosphorothioate	4	-	8	50	9.90E+00	-	9.90E+01	2.20E+01	-	1.20E+04	MW-17(7/26/2011)	NA	NA		**YES**	NSL
Organochlorine Pesticides_Method 8081																
Alpha-BHC	3	-	8	38	4.90E-02	-	5.10E-02	2.50E-01	-	1.50E+00	MW-17(7/26/2011)	1.06E-02	6.20E-03	c	**YES**	ASL
Gamma-BHC (Lindane)	1	-	8	13	4.90E-02	-	4.90E-01	4.50E-01	-	4.50E-01	MW-08 (7/26/2011)	2.00E-01	3.60E-02	c*	**YES**	ASL
Total Metals_Method 6020																
Arsenic	6	-	8	75	2.50E+00	-	2.50E+00	2.90E+00	-	4.40E+01	MW-08 (7/26/2011)	5.00E+01	4.50E-02	c	**YES**	ASL
Other																
Sulfide	4	-	8	50	1.00E+03	-	1.00E+03	1.10E+03	-	1.70E+04	MW-08 (7/26/2011)	NA	NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
c	Cancer.	n	Noncancer.		
COPC	Constituent of Potential Concern.	NA	Not available.	µg/L	Microgram per liter.
		NSL	No screening level.		

[a] All groundwater monitoring analytical data presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Target Remediation Goal (MDEQ 2002).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; ** = where n SL < 10X c SL; and n = non-cancer.

[e] A constituent detected with a maximum concentration above the minimium of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 11. Maximum Detection Summary of Soil Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG [d]	USEPA Residential Regional Screening Level [e]		USEPA Industrial Regional Screening Level [f]		Is Constituent a COPC? [g]	
	Number of Detects	Number of Samples	(%)	Min (µg/kg)	Max (µg/kg)		Min (µg/kg)	Max (µg/kg)			(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																		
Carbon Tetrachloride	3	61	5	4.00E+00	1.80E+02		3.20E+01	2.40E+04		SS-AO-GP-28 (24-26)	5.69E+02	3.71E+02	6.10E+02	c	3.00E+03	c	**YES**	ASL
Chloroform	3	61	5	4.00E+00	1.80E+02		5.40E+00	3.50E+03		SS-AO-GP-28 (24-26)	4.78E+02	3.12E+02	2.90E+02	c	1.50E+03	c	**YES**	ASL
Iodomethane	2	61	3	4.00E+00	9.50E+02		3.00E+00	7.00E+00		S-AO-GP-28 (0-2)	NA	NA	NA		NA		**YES**	NSL
Semi Volatile Organic Compounds_Method 8270																		
Benzo(a)pyrene	7	61	12	7.20E+00	8.30E+01		4.50E+00	1.60E+02		SS-AO-SS-08 (0-1)	7.84E+02	8.75E+01	1.50E+01	c	2.10E+02	c	**YES**	ASL
Benzo(b)fluoranthene	6	61	10	7.20E+00	8.30E+01		4.80E+00	3.20E+02		SS-AO-SS-08 (0-1)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	**YES**	ASL
Diphenyl Ether	13	61	21	3.60E+01	4.10E+02		1.50E+01	3.70E+03		SS-AO-GP-28 (24-26)	NA	NA	NA		NA		**YES**	NSL
Organochlorine Pesticides_Method 8081																		
Delta-BHC	1	61	2	1.80E+00	1.10E+01		2.80E-01	2.80E-01		SS-AO-GP-20 (0-2)	NA	NA	NA		NA		**YES**	NSL
Dieldrin	5	61	8	1.00E+00	4.70E+00		1.20E+00	4.20E+01		SS-AO-SS-03 (0-1)	3.58E+02	3.99E+01	3.00E+01	c	1.10E+02	c	**YES**	ASL
Toxaphene	5	61	8	1.80E+02	2.40E+02		1.60E+02	1.40E+03		SS-AO-SS-06 (0-1)	5.20E+03	5.81E+02	4.40E+02	c	1.60E+03	c	**YES**	ASL
Polychlorinated Biphenyls_Method 8082																		
Aroclor-1254	1	61	2	3.50E+01	2.10E+02		4.10E+02	4.10E+02		SS-AO-SS-03 (0-1)	1.00E+04	1.00E+03	2.20E+02	c**	7.40E+02	c*	**YES**	ASL
Dioxathion/Dioxenethion_Method 8310																		
Dioxenethion	41	61	67	4.99E-01	1.71E+01		2.30E+01	1.99E+03		SS-AO-GP-33 (0-2)	NA	NA	NA		NA		**YES**	NSL
Dioxins and Furans_Method 8290																		
1,2,3,4,6,7,8-HpCDD	57	61	93	6.20E-03	7.60E-03		7.70E-04	2.80E+00		SS-AO-SS-08 (0-1)	3.82E+00	4.26E-01	NA		NA		**YES**	ASL
1,2,3,4,6,7,8-HpCDF	29	61	48	5.40E-03	7.60E-03		1.30E-04	5.10E-01		SS-AO-SS-08 (0-1)	3.82E+00	4.26E-01	NA		NA		**YES**	ASL
1,2,3,6,7,8-HxCDF	23	61	38	5.40E-03	7.60E-03		6.90E-05	8.30E-02		SS-AO-SS-08 (0-1)	3.82E-01	4.26E-02	NA		NA		**YES**	ASL
Octachlorodibenzo-p-Dioxin	59	61	97	5.30E-02	1.30E-01		1.50E-02	2.10E+01		SS-AO-GP-01 (4-6),SS-AO-SS-08 (0-1)	3.82E+01	4.26E+00	NA		NA		**YES**	ASL
Total Metals_Method 6020																		
Arsenic	61	61	100	–	–		2.20E+02	1.00E+04		SS-AO-GP-26 (10-12)	3.82E+03	4.26E+02	3.90E+02	c*	1.60E+03	c	**YES**	ASL
Other																		
Sulfide	1	61	2	5.40E+04	8.60E+04		5.90E+04	5.90E+04		SS-AO-SS-07 (0-1)	NA	NA	NA		NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
c	Cancer.	NA	Not available.		
COPC	Constituent of Potential Concern.	NSL	No screening level.	µg/kg	Microgram per kilogram.

[a] All soil analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Restricted Soil Target Remediation Goal (MDEQ 2002).

[d] Mississippi Department of Environmental Quality Tier 1 Unrestricted Soil Target Remediation Goal (MDEQ 2002).

[e] The screening levels used were the USEPA Residential Soil Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; and ** = where n SL < 10X c SL.

[f] The screening levels used were the USEPA Industrial Soil Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; and ** = where n SL < 10X c SL.

[g] A constituent detected with a maximum concentration above the minimium of USEPA RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 12. Maximum Detection Summary of Soil Analytical Results, Ecological Comparison Criteria (0-2 ft bgs), Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Level [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Volatile Organic Compounds_Method 8260														
Carbon Tetrachloride	1	-	20	5	4.10E+00	-	8.10E+00	1.10E+02	-	1.10E+02	SS-AO-GP-28 (0-2)(3/21/2012)	1.00E+02	**YES**	ASL
Chloroform	1	-	20	5	4.10E+00	-	8.10E+00	2.70E+01	-	2.70E+01	SS-AO-GP-28 (0-2)(3/21/2012)	1.00E+00	**YES**	ASL
Iodomethane	1	-	20	5	4.10E+00	-	8.10E+00	7.00E+00	-	7.00E+00	SS-AO-GP-28 (0-2)(3/21/2012)	NA	**YES**	NSL
Semi Volatile Organic Compounds_Method 8270C														
Benzo(a)pyrene	5	-	20	25	7.70E+00	-	8.30E+01	5.10E+00	-	1.60E+02	SS-AO-SS-08 (0-1)(3/19/2012)	1.00E+02	**YES**	ASL
bis(2-Ethylhexyl)phthalate	9	-	20	45	1.20E+01	-	8.20E+02	9.80E+00	-	6.90E+02	SS-AO-GP-24 (0-2)(3/16/2012)	1.00E+02	**YES**	ASL
Diphenyl Ether	6	-	20	30	3.70E+01	-	4.10E+02	4.40E+01	-	2.60E+03	SS-AO-GP-28 (0-2)(3/21/2012)	NA	**YES**	NSL
Fluoranthene	11	-	20	55	7.70E+00	-	8.30E+01	4.30E+00	-	2.20E+02	SS-AO-SS-08 (0-1)(3/19/2012)	1.00E+02	**YES**	ASL
Pyrene	8	-	20	40	7.70E+00	-	8.30E+01	4.20E+00	-	2.70E+02	SS-AO-SS-08 (0-1)(3/19/2012)	1.00E+02	**YES**	ASL
Organochlorine Pesticides_Method 8081														
4,4'-DDD	3	-	20	15	3.60E+00	-	4.30E+00	1.00E+01	-	1.80E+02	SS-AO-GP-31 (0-2)(3/14/2012)	2.50E+00	**YES**	ASL
4,4'-DDE	13	-	20	65	3.80E+00	-	4.10E+00	1.30E+00	-	4.50E+02	SS-AO-GP-31 (0-2)(3/14/2012)	2.50E+00	**YES**	ASL
4,4'-DDT	13	-	20	65	3.80E+00	-	4.10E+00	1.20E+00	-	2.20E+02	SS-AO-SS-08 (0-1)(3/19/2012)	2.50E+00	**YES**	ASL
Dieldrin	4	-	20	20	3.70E+00	-	1.90E+01	1.20E+00	-	4.20E+01	SS-AO-SS-03 (0-1)(3/19/2012)	2.80E-01	**YES**	ASL
Toxaphene	5	-	20	25	1.80E+02	-	1.10E+03	1.60E+02	-	1.40E+03	SS-AO-SS-06 (0-1)(3/19/2012)	NA	**YES**	NSL
Polychlorinated Biphenyls_Method 8082														
Aroclor-1254	1	-	20	5	3.70E+01	-	1.90E+02	4.10E+02	-	4.10E+02	SS-AO-SS-03 (0-1)(3/19/2012)	2.00E+01	**YES**	ASL
Dioxathion/Dioxenethion_Method 8310														
cis-Dioxathion	13	-	20	65	8.25E+01	-	8.54E+01	1.07E+02	-	1.57E+03	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
Dioxenethion	17	-	20	85	1.69E+01	-	1.70E+01	3.33E+01	-	1.99E+03	SS-AO-GP-33 (0-2)(3/13/2012)	NA	**YES**	NSL
trans-Dioxathion	14	-	20	70	8.38E+01	-	8.51E+01	9.50E+01	-	8.26E+02	SS-AO-SS-06 (0-1)(3/19/2012)	NA	**YES**	NSL
Dioxins and Furans_Method 8290														
1,2,3,4,6,7,8-HpCDD	20	-	20	100	–	-	–	9.20E-03	-	2.80E+00	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,4,6,7,8-HpCDF	20	-	20	100	–	-	–	3.00E-04	-	5.10E-01	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,4,7,8,9-HpCDF	14	-	20	70	5.60E-03	-	6.20E-03	2.20E-04	-	4.30E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDD	16	-	20	80	5.60E-03	-	6.20E-03	3.10E-04	-	1.80E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDF	17	-	20	85	6.00E-03	-	6.20E-03	1.70E-04	-	1.60E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDD	17	-	20	85	6.00E-03	-	6.20E-03	8.90E-04	-	7.80E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDF	17	-	20	85	6.00E-03	-	6.20E-03	2.50E-04	-	8.30E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDD	19	-	20	95	6.20E-03	-	6.20E-03	2.90E-04	-	5.00E-02	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDF	2	-	20	10	5.50E-03	-	3.10E-02	2.30E-04	-	5.30E-04	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDD	14	-	20	70	5.60E-03	-	6.30E-03	4.40E-04	-	5.50E-03	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDF	7	-	20	35	5.50E-03	-	3.10E-02	2.50E-04	-	1.60E-03	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
2,3,4,6,7,8-HxCDF	15	-	20	75	5.60E-03	-	6.20E-03	2.70E-04	-	8.20E-03	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
2,3,4,7,8-PeCDF	12	-	20	60	5.50E-03	-	3.10E-02	1.10E-04	-	2.30E-03	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL
2,3,7,8-TCDD	1	-	20	5	1.10E-03	-	6.10E-03	9.90E-04	-	9.90E-04	SS-AO-GP-20 (0-2)(3/19/2012)	1.99E-04	**YES**	ASL
2,3,7,8-TCDF	12	-	20	60	1.10E-03	-	6.10E-03	2.50E-04	-	1.40E-03	SS-AO-SS-03 (0-1)(3/19/2012)	NA	**YES**	NSL
Octachlorodibenzofuran	18	-	20	90	1.20E-02	-	1.20E-02	3.70E-03	-	1.40E+00	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL
Octachlorodibenzo-p-Dioxin	20	-	20	100	–	-	–	4.70E-01	-	2.10E+01	SS-AO-SS-08 (0-1)(3/19/2012)	NA	**YES**	NSL

See footnotes on the last page.

Table 12. Maximum Detection Summary of Soil Analytical Results, Ecological Comparison Criteria (0-2 ft bgs), Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)(Sample Date)	Ecological Screening Level [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Total Metals_Method 6020														
Antimony	1	-	20	5	2.00E+03	-	2.50E+03	1.10E+03	-	1.10E+03	SS-AO-SS-08 (0-1)(3/19/2012)	2.90E+02	**YES**	ASL
Cadmium	19	-	20	95	1.10E+02	-	1.10E+02	2.80E+01	-	5.40E+02	SS-AO-SS-08 (0-1)(3/19/2012)	3.80E+02	**YES**	ASL
Chromium	20	-	20	100	–	-	–	3.40E+03	-	1.90E+04	SS-AO-GP-28 (0-2)(3/21/2012)	4.00E+02	**YES**	ASL
Cobalt	20	-	20	100	–	-	–	1.30E+03	-	1.60E+04	SS-AO-SS-02 (0-1)(3/20/2012)	1.30E+04	**YES**	ASL
Copper	20	-	20	100	–	-	–	2.40E+03	-	2.20E+05	SS-AO-SS-03 (0-1)(3/19/2012)	4.00E+04	**YES**	ASL
Lead	20	-	20	100	–	-	–	8.30E+03	-	3.50E+05	SS-AO-SS-03 (0-1)(3/19/2012)	1.60E+04	**YES**	ASL
Mercury	19	-	20	95	2.20E+01	-	2.20E+01	1.40E+01	-	1.50E+03	SS-AO-GP-23 (0-2)(3/19/2012)	1.00E+02	**YES**	ASL
Nickel	20	-	20	100	–	-	–	2.50E+03	-	9.10E+04	SS-AO-SS-03 (0-1)(3/19/2012)	3.00E+04	**YES**	ASL
Vanadium	20	-	20	100	–	-	–	3.50E+03	-	2.60E+04	SS-AO-GP-27 (0-2)(3/13/2012)	2.00E+03	**YES**	ASL
Zinc	20	-	20	100	–	-	–	1.10E+04	-	2.60E+05	SS-AO-GP-31 (0-2)(3/14/2012)	5.00E+04	**YES**	ASL
Other														
Sulfide	1	-	20	5	5.40E+04	-	7.50E+04	5.90E+04	-	5.90E+04	SS-AO-SS-07 (0-1)(3/19/2012)	NA	**YES**	NSL

–	Not applicable.	NA	Not available.
ASL	Above screening level.	NSL	No screening level.
COPC	Constituent of Potential Concern.	µg/kg	Microgram per kilogram.

[a] All surface soil analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Ecological Screening Levels were obtained using the following hierarchy: 1) USEPA Revised Region 4 Ecological Screening Values (USEPA 2001); 2) USEPA Region 5 Ecological Screening Values (USEPA 2003); and 3) USEPA Region 3 Ecological Screening Levels (USEPA 2006). The screening level for Aroclor-1254 was indicated by USEPA Region 4 in a letter dated 11/1/12 (USEPA 2012c).

[d] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[e] A constituent detected with a maximum concentration above the Ecological Screening Level is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 13. Maximum Detection Summary of Surface Water Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	National Recommended Water Quality Criteria [c]	USEPA Tapwater Regional Screening Level [d]		Is Constituent a COPC? [e]	
	Number of Detects	Number of Samples	(%)	Min (µg/L)	-	Max (µg/L)	Min (µg/L)	-	Max (µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260															
1,4-Dioxane	2	- 15	13	5.00E+01	-	5.00E+01	5.90E+01	-	6.90E+01	SW-AO-SW-07 (3/14/2012)	NA	6.70E-01	c	**YES**	ASL
Benzene	3	- 15	20	1.00E+00	-	1.00E+00	3.30E-01	-	1.40E+01	SW-AO-SW-15 (3/13/2012)	2.20E+00	3.90E-01	c*	**YES**	ASL
Carbon Tetrachloride	1	- 15	7	1.00E+00	-	1.00E+00	6.30E+01	-	6.30E+01	SW-AO-SW-15 (3/13/2012)	2.30E-01	3.90E-01	c	**YES**	ASL
Chloroform	4	- 15	27	1.00E+00	-	1.00E+00	2.50E-01	-	3.00E+01	SW-AO-SW-15 (3/13/2012)	5.70E+00	1.90E-01	c	**YES**	ASL
Vinyl Chloride	1	- 15	7	1.00E+00	-	1.00E+00	2.00E-01	-	2.00E-01	SW-AO-SW-12 (3/13/2012)	2.50E-02	1.50E-02	c	**YES**	ASL
Semi Volatile Organic Compounds_Method 8270C															
1,1'-Biphenyl	5	- 15	33	9.50E-01	-	2.00E+00	9.90E-02	-	2.90E+00	SW-AO-SW-11 (3/13/2012)	NA	8.30E-01	n	**YES**	ASL
1,4-Dioxane	4	- 14	29	1.90E+00	-	4.00E+00	3.10E-01	-	4.40E+01	SW-AO-SW-06 (3/15/2012)	NA	6.70E-01	c	**YES**	ASL
bis(2-Ethylhexyl)phthalate	4	- 15	27	1.90E+00	-	4.00E+00	6.10E-01	-	2.20E+00	SW-AO-SW-11 (3/13/2012)	1.20E+00	7.10E-02	c*	**YES**	ASL
Diphenyl Ether	4	- 14	29	9.50E-01	-	2.00E+00	3.00E-01	-	1.10E+01	SW-AO-SW-15 (3/13/2012)	NA	NA		**YES**	NSL
Naphthalene	1	- 15	7	1.90E-01	-	4.00E-01	3.60E-01	-	3.60E-01	SW-AO-SW-15 (3/13/2012)	NA	1.40E-01	c*	**YES**	ASL
o,o,o-Triethylphosphorothioate	3	- 15	20	9.40E-01	-	2.00E+00	1.50E+00	-	2.20E+00	SW-AO-SW-07 (3/14/2012)	NA	NA		**YES**	NSL
Dioxathion/Dioxenethion_Method 8310															
Dioxenethion	1	- 3	33	5.00E-01	-	5.26E-01	5.82E-01	-	5.82E-01	SW-AO-SW-06 (3/15/2012)	NA	NA		**YES**	NSL
1,2,3,4,6,7,8-HpCDD	4	- 5	80	4.80E-05	-	4.80E-05	1.50E-06	-	3.10E-06	SW-AO-SW-01 (3/20/2012)	NA	NA		**YES**	NSL
Octachlorodibenzo-p-Dioxin	5	- 5	100	–	-	–	2.60E-05	-	6.60E-05	SW-AO-SW-05 (3/16/2012)	NA	NA		**YES**	NSL
Total Metals_Method 6020															
Arsenic	14	- 15	93	2.50E+00	-	2.50E+00	1.40E+00	-	2.40E+00	SW-AO-SW-11 (3/13/2012)	1.80E-02	4.50E-02	c	**YES**	ASL
Cobalt	15	- 15	100	–	-	–	3.40E-01	-	5.00E+00	SW-AO-SW-15 (3/13/2012)	NA	4.70E+00	n	**YES**	ASL
Lead	7	- 15	47	1.50E+00	-	1.50E+00	5.60E-01	-	3.00E+00	SW-AO-SW-16 (3/12/2012)	NA	NA		**YES**	NSL
Thallium	1	- 15	7	1.00E+00	-	1.00E+00	2.60E-01	-	2.60E-01	SW-AO-SW-04 (3/20/2012)	2.40E-01	1.60E-01	n	**YES**	ASL
Other															
Sulfide	2	- 3	67	1.00E+03	-	1.00E+03	1.30E+03	-	1.80E+03	SW-AO-SW-05 (3/16/2012)	NA	NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
c	Cancer.	n	Noncancer.		
COPC	Constituent of Potential Concern.	NA	Not available.	µg/L	Micrograms per liter.
		NSL	No screening level.		

[a] All surface water analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] National Recommended Water Quality Criteria (USEPA 2012b).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; and n = non-cancer.

[e] A constituent detected with a maximum concentration above the minimium of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 14. Maximum Detection Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Levels [c]	Is Constituent a COPC? [d]	
				Min	-	Max	Min	-	Max				
	Number of Detects	Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(YES, no)	Rationale
Semi Volatile Organic Compounds_Method 8270C													
2,2'-Oxybis(1-Chloropropane)	1	- 15	7	9.40E-01	-	2.00E+00	2.70E-01	-	2.70E-01	SW-AO-SW-15 (3/13/2012)	NA	**YES**	NSL
Acetophenone	6	- 15	40	9.50E-01	-	2.00E+00	1.00E-01	-	3.10E-01	SW-AO-SW-11 (3/13/2012)	NA	**YES**	NSL
bis(2-Ethylhexyl)phthalate	4	- 15	27	1.90E+00	-	4.00E+00	6.10E-01	-	2.20E+00	SW-AO-SW-11 (3/13/2012)	3.00E-01	**YES**	ASL
Diphenyl Ether	4	- 14	29	9.50E-01	-	2.00E+00	3.00E-01	-	1.10E+01	SW-AO-SW-15 (3/13/2012)	NA	**YES**	NSL
o,o,o-Triethylphosphorothioate	3	- 15	20	9.40E-01	-	2.00E+00	1.50E+00	-	2.20E+00	SW-AO-SW-07 (3/14/2012)	NA	**YES**	NSL
Dioxathion/Dioxenethion_Method 8310													
Dioxenethion	1	- 3	33	5.00E-01	-	5.26E-01	5.82E-01	-	5.82E-01	SW-AO-SW-06 (3/15/2012)	NA	**YES**	NSL
1,2,3,4,6,7,8-HpCDD	4	- 5	80	4.80E-05	-	4.80E-05	1.50E-06	-	3.10E-06	SW-AO-SW-01 (3/20/2012)	NA	**YES**	NSL
Octachlorodibenzo-p-Dioxin	5	- 5	100	–	-	–	2.60E-05	-	6.60E-05	SW-AO-SW-05 (3/16/2012)	NA	**YES**	NSL
Total Metals_Method 6020													
Copper	10	- 15	67	5.00E+00	-	5.00E+00	1.50E+00	-	6.40E+00	SW-AO-SW-09 (3/14/2012)	5.00E+00	**YES**	ASL
Lead	7	- 15	47	1.50E+00	-	1.50E+00	5.60E-01	-	3.00E+00	SW-AO-SW-16 (3/12/2012)	1.18E+00	**YES**	ASL
Silver	1	- 15	7	1.00E+00	-	1.00E+00	3.60E-01	-	3.60E-01	SW-AO-SW-01 (3/20/2012)	1.20E-02	**YES**	ASL
Other													
Sulfide	2	- 3	67	1.00E+03	-	1.00E+03	1.30E+03	-	1.80E+03	SW-AO-SW-05 (3/16/2012)	NA	**YES**	NSL

–	Not applicable.	NA	Not available.
ASL	Above screening level.	NSL	No screening level.
COPC	Constituent of Potential Concern.	µg/L	Micrograms per liter.

[a] All surface water analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Ecological Screening Levels were obtained using the following hierarchy: 1) Mississippi Water Quality Criteria for Chronic Freshwater (MDEQ 2007); 2) USEPA Revised Region 4 Ecological Screening Values (USEPA 2001); 3) USEPA Region 5 Ecological Screening Values (USEPA 2003); and 4) USEPA Region 3 Ecological Screening Levels (USEPA 2006).

[d] A constituent detected with a maximum concentration above the Ecological Screening Level is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 15. Maximum Detection Summary of Sediment Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Depth)	MDEQ Tier 1 Restricted Soil TRG [c]	MDEQ Tier 1 Unrestricted Soil TRG[d]	USEPA Residential Regional Screening Level [e]		USEPA Industrial Regional Screening Level [f]		Is Constituent a COPC? [g]	
				Min	-	Max	Min	-	Max									
	Number of Detects	Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																		
Vinyl Chloride	1	- 14	7	4.50E+00	-	1.30E+01	6.30E+01	-	6.30E+01	SD-AO-SD-12 (3/13/2012)	9.39E+02	4.26E+02	6.00E+01	c	1.70E+03	c	**YES**	ASL
Semi Volatile Organic Compounds_Method 8270C																		
Benzo(a)pyrene	5	- 14	36	8.50E+00	-	1.60E+02	4.10E+00	-	4.10E+01	SD-AO-SD-14 (3/13/2012)	7.84E+02	8.75E+01	1.50E+01	c	2.10E+02	c	**YES**	ASL
Benzo(b)fluoranthene	5	- 14	36	7.90E+00	-	8.40E+01	4.90E+00	-	1.60E+02	SD-AO-SD-13 (3/13/2012)	7.84E+03	8.75E+02	1.50E+02	c	2.10E+03	c	**YES**	ASL
Diphenyl Ether	5	- 14	36	3.90E+01	-	4.10E+02	3.60E+01	-	2.80E+04	SD-AO-SD-15 (3/13/2012)	NA	NA	NA		NA		**YES**	NSL
Dioxathion/Dioxenethion_Method 8310																		
Dioxenethion	7	- 14	50	5.02E-01	-	1.68E+01	1.71E+01	-	1.08E+03	SD-AO-SD-01 (3/20/2012)	NA	NA	NA		NA		**YES**	NSL
Dioxins and Furans_Method 8290																		
1,2,3,4,6,7,8-HpCDD	14	- 14	100	–	-	–	1.20E-02	-	1.40E+00	SD-AO-SD-13 (3/13/2012)	3.82E+00	4.26E-01	NA		NA		**YES**	ASL
Octachlorodibenzo-p-Dioxin	14	- 14	100	–	-	–	1.20E-01	-	1.20E+01	SD-AO-SD-13 (3/13/2012)	3.82E+01	4.26E+00	NA		NA		**YES**	ASL
Total Metals_Method 6020																		
Arsenic	14	- 14	100	–	-	–	4.60E+02	-	1.40E+04	SD-AO-SD-01 (3/20/2012)	3.82E+03	4.26E+02	3.90E+02	c*	1.60E+03	c	**YES**	ASL
Cobalt	14	- 14	100	–	-	–	4.70E+02	-	1.80E+05	SD-AO-SD-15 (3/13/2012)	1.23E+07	4.69E+06	2.30E+04	n	3.00E+05	n	**YES**	ASL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
c	Cancer.	n	Noncancer.		
COPC	Constituent of Potential Concern.	NA	Not available.	µg/kg	Micrograms per kilogram.
		NSL	No screening level.		

[a] All sediment analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Restricted Soil Target Remediation Goal (MDEQ 2002).

[d] Mississippi Department of Environmental Quality Tier 1 Unrestricted Soil Target Remediation Goal (MDEQ 2002).

[e] The screening levels used were the USEPA Residential Soil Regional Screening Levels (RSLs) (USEPA 2012a). c=cancer; *=where: n SL < 100X c SL; and ** = where n SL < 10X c SL.

[f] The screening levels used were the USEPA Industrial Soil Regional Screening Levels (RSLs) (USEPA 2012a).

[g] A constituent detected with a maximum concentration above the minimium of USEPA RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 16. Maximum Detection Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Level [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Volatile Organic Compounds_Method 8260														
2-Butanone	7	-	14	50	2.50E+01	-	3.10E+01	2.60E+00	-	5.10E+01	SD-AO-SD-13 (3/13/2012)	4.24E+01	**YES**	ASL
Acetone	8	-	14	57	5.20E+01	-	6.10E+01	1.70E+01	-	3.60E+02	SD-AO-SD-13 (3/13/2012)	9.90E+00	**YES**	ASL
Benzene	1	-	14	7	4.50E+00	-	1.30E+01	1.50E+02	-	1.50E+02	SD-AO-SD-15 (3/13/2012)	1.42E+02	**YES**	ASL
Semi Volatile Organic Compounds_Method 8270C														
1,1'-Biphenyl	2	-	14	14	3.90E+01	-	4.10E+02	3.80E+02	-	4.20E+03	SD-AO-SD-15 (3/13/2012)	1.22E+03	**YES**	ASL
4-Methylphenol	1	-	14	7	3.90E+01	-	7.70E+02	2.90E+01	-	2.90E+01	SD-AO-SD-14 (3/13/2012)	2.02E+01	**YES**	ASL
Aniline	1	-	14	7	7.80E+01	-	1.50E+03	1.40E+02	-	1.40E+02	SD-AO-SD-16 (3/12/2012)	3.10E-01	**YES**	ASL
Benzyl Alcohol	5	-	14	36	3.90E+01	-	7.70E+02	9.40E+00	-	1.40E+02	SD-AO-SD-12 (3/13/2012)	1.04E+00	**YES**	ASL
bis(2-Ethylhexyl)phthalate	4	-	14	29	8.30E+01	-	1.50E+03	1.20E+01	-	8.90E+02	SD-AO-SD-01 (3/20/2012)	1.82E+02	**YES**	ASL
Diphenyl Ether	5	-	14	36	3.90E+01	-	4.10E+02	3.60E+01	-	2.80E+04	SD-AO-SD-15 (3/13/2012)	NA	**YES**	NSL
Naphthalene	1	-	14	7	7.90E+00	-	1.60E+02	7.50E+00	-	7.50E+00	SD-AO-SD-14 (3/13/2012)	NA	**YES**	NSL
Phenol	1	-	14	7	3.90E+01	-	7.70E+02	9.30E+01	-	9.30E+01	SD-AO-SD-15 (3/13/2012)	4.91E+01	**YES**	ASL
Organochlorine Pesticides_Method 8081														
4,4'-DDD	1	-	14	7	3.60E+00	-	7.60E+00	1.60E+01	-	1.60E+01	SD-AO-SD-12 (3/13/2012)	3.30E+00	**YES**	ASL
4,4'-DDE	3	-	14	21	3.60E+00	-	4.40E+00	8.10E-01	-	7.20E+00	SD-AO-SD-12 (3/13/2012)	3.30E+00	**YES**	ASL
4,4'-DDT	4	-	14	29	3.60E+00	-	5.40E+00	5.70E-01	-	1.30E+01	SD-AO-SD-13 (3/13/2012)	3.30E+00	**YES**	ASL
Polychlorinated Biphenyls_Method 8082														
Aroclor-1260	1	-	14	7	3.60E+01	-	7.60E+01	6.60E+01	-	6.60E+01	SD-AO-SD-15 (3/13/2012)	5.98E+01	**YES**	ASL
Dioxathion/Dioxenethion_Method 8310														
cis-Dioxathion	10	-	14	71	8.26E+01	-	8.48E+01	2.29E+02	-	1.53E+03	SD-AO-SD-16 (3/12/2012)	NA	**YES**	NSL
Dioxenethion	7	-	14	50	5.02E-01	-	1.68E+01	1.71E+01	-	1.08E+03	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
trans-Dioxathion	5	-	14	36	5.06E-01	-	8.48E+01	7.47E+01	-	2.64E+02	SD-AO-SD-15 (3/13/2012)	NA	**YES**	NSL
Dioxins and Furans_Method 8290														
1,2,3,4,6,7,8-HpCDD	14	-	14	100	–	-	–	1.20E-02	-	1.40E+00	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,4,6,7,8-HpCDF	13	-	14	93	6.30E-03	-	6.30E-03	2.20E-03	-	1.70E-01	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,4,7,8,9-HpCDF	6	-	14	43	4.80E-03	-	6.30E-03	3.50E-04	-	1.60E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDD	11	-	14	79	4.90E-03	-	6.30E-03	3.00E-04	-	1.70E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,4,7,8-HxCDF	10	-	14	71	4.90E-03	-	6.30E-03	3.10E-04	-	9.80E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDD	14	-	14	100	–	-	–	5.70E-04	-	4.90E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,6,7,8-HxCDF	13	-	14	93	6.30E-03	-	6.30E-03	1.30E-04	-	2.30E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDD	14	-	14	100	–	-	–	4.30E-04	-	4.00E-02	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8,9-HxCDF	1	-	14	7	4.80E-03	-	6.30E-03	4.30E-04	-	4.30E-04	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDD	5	-	14	36	4.80E-03	-	6.30E-03	4.00E-04	-	7.70E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
1,2,3,7,8-PeCDF	1	-	14	7	4.80E-03	-	6.30E-03	1.70E-03	-	1.70E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
2,3,4,6,7,8-HxCDF	5	-	14	36	4.80E-03	-	6.30E-03	4.00E-04	-	5.50E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
2,3,4,7,8-PeCDF	3	-	14	21	4.80E-03	-	6.30E-03	3.10E-04	-	2.90E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
2,3,7,8-TCDD	1	-	14	7	9.60E-04	-	1.30E-03	2.70E-04	-	2.70E-04	SD-AO-SD-13 (3/13/2012)	1.20E-04	**YES**	ASL
2,3,7,8-TCDF	4	-	14	29	9.70E-04	-	1.30E-03	2.60E-04	-	2.70E-03	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
Octachlorodibenzofuran	13	-	14	93	1.30E-02	-	1.30E-02	3.70E-03	-	4.60E-01	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL
Octachlorodibenzo-p-Dioxin	14	-	14	100	–	-	–	1.20E-01	-	1.20E+01	SD-AO-SD-13 (3/13/2012)	NA	**YES**	NSL

See footnotes on the last page.

Table 16. Maximum Detection Summary of Sediment Analytical Results, Ecological Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	Ecological Screening Level [c,d]	Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max				
	Number of Detects		Number of Samples	(%)	(µg/kg)		(µg/kg)	(µg/kg)		(µg/kg)		(µg/kg)	(YES, no)	Rationale
Total Metals_Method 6020														
Arsenic	14	-	14	100	–	-	–	4.60E+02	-	1.40E+04	SD-AO-SD-01 (3/20/2012)	7.24E+03	**YES**	ASL
Barium	14	-	14	100	–	-	–	6.50E+03	-	7.60E+05	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
Beryllium	13	-	14	93	1.10E+02	-	1.10E+02	8.10E+01	-	4.20E+03	SD-AO-SD-04 (3/20/2012)	NA	**YES**	NSL
Cadmium	9	-	14	64	1.10E+02	-	1.20E+02	3.50E+01	-	7.30E+02	SD-AO-SD-13 (3/13/2012)	6.76E+02	**YES**	ASL
Cobalt	14	-	14	100	–	-	–	4.70E+02	-	1.80E+05	SD-AO-SD-15 (3/13/2012)	5.00E+04	**YES**	ASL
Copper	14	-	14	100	–	-	–	7.80E+02	-	5.50E+04	SD-AO-SD-13 (3/13/2012)	1.87E+04	**YES**	ASL
Lead	14	-	14	100	–	-	–	1.60E+03	-	8.70E+04	SD-AO-SD-09(3/14/2012)	3.02E+04	**YES**	ASL
Mercury	4	-	14	29	2.10E+01	-	2.60E+01	2.80E+01	-	1.80E+02	SD-AO-SD-13 (3/13/2012)	1.30E+02	**YES**	ASL
Nickel	13	-	14	93	1.10E+03	-	1.10E+03	1.10E+03	-	5.30E+05	SD-AO-SD-15 (3/13/2012)	1.59E+04	**YES**	ASL
Thallium	4	-	14	29	2.00E+02	-	2.60E+02	1.90E+02	-	5.20E+02	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
Vanadium	14	-	14	100	–	-	–	1.50E+03	-	5.50E+04	SD-AO-SD-01 (3/20/2012)	NA	**YES**	NSL
Zinc	14	-	14	100	–	-	–	4.90E+03	-	6.70E+05	SD-AO-SD-13 (3/13/2012)	1.24E+05	**YES**	ASL
Other														
Cyanide	5	-	14	36	5.40E+02	-	7.80E+02	2.50E+02	-	6.30E+02	SD-AO-SD-13 (3/13/2012),SD-AO-SD-15 (3/13/2012)	1.00E-01	**YES**	ASL

–	Not applicable.	NA	Not available.
ASL	Above screening level.	NSL	No screening level.
COPC	Constituent of Potential Concern.	µg/kg	Micrograms per kilogram.

[a] All sediment analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Ecological Screening Levels were obtained using the following hierarchy: 1) USEPA Revised Region 4 Ecological Screening Values (USEPA 2001); 2) USEPA Region 5 Ecological Screening Values (USEPA 2003); and 3) USEPA Region 3 Ecological Screening Levels (USEPA 2006).

[d] Chromium was assumed to be Chromium III and Mercury was conservatively assumed to be elemental mercury.

[e] A constituent detected with a maximum concentration above the Ecological Screening Level is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 17. Maximum Detection Summary of Industrial Well Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d]		Is Constituent a COPC? [e]	
				Min	-	Max	Min	-	Max						
	Number of Detects	Number of Samples	(%)	(µg/L)		(µg/L)	(µg/L)		(µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260															
Benzene	1	- 5	20	1.00E+00	-	1.00E+00	7.60E-01	-	7.60E-01	PW-RTT-01 (4/3/2012)	5.00E+00	3.90E-01	c*	**YES**	ASL
Tetrachloroethene	1	- 5	20	1.00E+00	-	1.00E+00	1.20E+01	-	1.20E+01	PW-RTT-01 (4/3/2012)	5.00E+00	9.70E+00	c**	**YES**	ASL
Trichloroethene	1	- 5	20	1.00E+00	-	1.00E+00	7.70E+01	-	7.70E+01	PW-RTT-01 (4/3/2012)	5.00E+00	4.40E-01	c**	**YES**	ASL
Vinyl Chloride	1	- 5	20	1.00E+00	-	1.00E+00	1.90E+00	-	1.90E+00	PW-RTT-01 (4/3/2012)	2.00E+00	1.50E-02	c	**YES**	ASL
Semi Volatile Organic Compounds_Method 8270C															
1,4-Dioxane	1	- 5	20	1.90E+00	-	2.00E+00	2.50E+00	-	2.50E+00	PW-RTT-01 (040312)	6.09E+00	6.70E-01	c	**YES**	ASL
Acetophenone	1	- 5	20	9.40E-01	-	9.60E-01	1.50E-01	-	1.50E-01	PW-ZC-02 (022812)	4.16E-02	1.50E+03	n	**YES**	ASL
Diphenyl Ether	1	- 5	20	9.40E-01	-	1.00E+00	2.50E+01	-	2.50E+01	PW-RTT-01 (040312)	NA	NA		**YES**	NSL
Dioxathion/Dioxenethion_Method 8310															
Dioxenethion	1	- 5	20	5.00E-01	-	5.75E-01	5.51E+00	-	5.51E+00	PW-RTT-01 (4/3/2012)	NA	NA		**YES**	NSL
Total Metals_Method 6020															
Arsenic	2	- 5	40	2.50E+00	-	2.50E+00	2.40E+00	-	5.00E+00	PW-RTT-01 (4/3/2012)	5.00E+01	4.50E-02	c	**YES**	ASL
Other															
Sulfide	3	- 5	60	1.00E+03	-	1.00E+03	1.10E+03	-	1.60E+03	PW-ZC-01 (2/28/2012)	NA	NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
c	Cancer.	n	Noncancer.		
COPC	Constituent of Potential Concern.	NA	Not available.	µg/L	Micrograms per liter.
		NSL	No screening level.		

[a] All industrial well analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Target Remediation Goal (MDEQ 2002).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; and n = non-cancer.

[e] A constituent detected with a maximum concentration above the minimium of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 18. Maximum Detection Summary of Residential Well Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	MDEQ Groundwater Tier 1 TRG [c]	USEPA Tapwater Regional Screening Level [d]		Is Constituent a COPC? [e]	
	Number of Detects		Number of Samples	(%)	Min (µg/L)	-	Max (µg/L)	Min (µg/L)	-	Max (µg/L)		(µg/L)	(µg/L)		(YES, no)	Rationale
Semi Volatile Organic Compounds_Method 8270C																
Acetophenone	1	-	1	100	–	-	–	1.60E-01	-	1.60E-01	PW-CMS-01 (2/27/2012)	4.16E-02	1.50E+03	n	**YES**	ASL
Total Metals_Method 6020																
Arsenic	1	-	1	100	–	-	–	7.60E-01	-	7.60E-01	PW-CMS-01 (2/27/2012)	5.00E+01	4.50E-02	c	**YES**	ASL
Other																
Sulfide	1	-	1	100	–	-	–	1.40E+03	-	1.40E+03	PW-CMS-01 (2/27/2012)	NA	NA		**YES**	NSL

–	Not applicable.	MDEQ	Mississippi Department of Environmental Quality	TRG	Target Remediation Goal
ASL	Above screening level.			USEPA	United States Environmental Protection Agency.
c	Cancer.	n	Noncancer.		
COPC	Constituent of Potential Concern.	NA	Not available.	µg/L	Micrograms per liter.
		NSL	No screening level.		

[a] All residential well analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] Mississippi Department of Environmental Quality Tier 1 Target Remediation Goal (MDEQ 2002).

[d] The screening levels used were the USEPA Tapwater Regional Screening Levels (RSLs) (USEPA 2012a).

[e] A constituent detected with a maximum concentration above the minimium of USEPA Tapwater RSL and MDEQ TRG is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 19. Maximum Detection Summary of Soil Gas Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]				Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	USEPA Adjusted Industrial Air Regional Screning Level [c]		USEPA Adjusted Residential Air Regional Screening Level [d]		Is Constituent a COPC? [e]	
					Min	-	Max	Min	-	Max							
	Number of Detects		Number of Samples	(%)	($\mu g/m^3$)		($\mu g/m^3$)	($\mu g/m^3$)		($\mu g/m^3$)		($\mu g/m^3$)		($\mu g/m^3$)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																	
1,3,5-Trimethylbenzene	1	-	5	20	2.90E+00	-	1.90E+03	3.90E+00	-	3.90E+00	SG-AO-SG-04 (4/2/2012)	NA		NA		**YES**	NSL
Benzene	2	-	5	40	1.60E+00	-	1.10E+03	5.40E+00	-	3.50E+01	SG-AO-SG-04 (4/2/2012)	1.60E+01	c*	3.10E+00	c	**YES**	ASL
Carbon Tetrachloride	2	-	5	40	2.40E+00	-	2.40E+00	5.90E+01	-	4.90E+05	SG-AO-SG-01(3/27/2012)	2.00E+01	c	4.10E+00	c	**YES**	ASL
Chloroform	5	-	5	100	–	-	–	1.90E+00	-	2.90E+04	SG-AO-SG-01(3/27/2012)	5.30E+00	c	1.10E+00	c	**YES**	ASL
Chloromethane	2	-	5	40	3.00E+00	-	3.30E+00	2.30E+01	-	5.00E+03	SG-AO-SG-01(3/27/2012)	3.90E+03	n	9.40E+02	n	**YES**	ASL
Ethylbenzene	1	-	5	20	2.70E+00	-	1.80E+03	1.60E+01	-	1.60E+01	SG-AO-SG-04 (4/2/2012)	4.90E+01	c	9.70E+00	c	**YES**	ASL
Methylene Chloride	5	-	5	100	–	-	–	3.00E+00	-	5.50E+03	SG-AO-SG-01(3/27/2012)	1.20E+04	c**	9.60E+02	c**	**YES**	ASL

–	Not applicable.	n	Noncancer.	USEPA	United States Environmental Protection Agency.
ASL	Above screening level.	NA	Not available.		
c	Cancer.	NSL	No screening level.	$\mu g/m^3$	Micrograms per cubic meters.
COPC	Constituent of Potential Concern.				

[a] All soil gas analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] The screening levels used were the USEPA Industrial Air Regional Screening Levels (RSLs) (USEPA 2012a) multiplied by a factor of 10 to account for attenuation into a building. For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; and n = non-cancer.

[d] The screening levels used were the USEPA Residential Air Regional Screening Levels (RSLs) (USEPA 2012a) multiplied by a factor of 10 to account for attenuation into a building. For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; and n = non-cancer.

[e] A constituent detected with a maximum concentration above the minimum of USEPA Industrial and Residential adjusted Air RSL is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

Table 20. Maximum Detection Summary of Ambient Air Analytical Results, Human Health Comparison Criteria, Phase I Activities, USEPA 3013 Order, Hercules Incorporated, Hattiesburg, Mississippi.

Constituent [a]	Frequency of Detection [b]			Detection Limits			Detected Concentrations			Location of Maximum Concentration (Sample Date)	USEPA Industrial Air Regional Screening Level [c]		USEPA Residential Air Regional Screening Level [d]		Is Constituent a COPC? [e]	
	Number of Detects	Number of Samples	(%)	Min ($\mu g/m^3$)	-	Max ($\mu g/m^3$)	Min ($\mu g/m^3$)	-	Max ($\mu g/m^3$)		($\mu g/m^3$)		($\mu g/m^3$)		(YES, no)	Rationale
Volatile Organic Compounds_Method 8260																
1,2,4-Trimethylbenzene	2	4	50	3.90E-01	-	9.80E-01	1.50E+00	-	1.10E+01	AA-AO-BDB-01(5/1/2012)	3.10E+01	n	7.30E+00	n	**YES**	ASL
1,3,5-Trimethylbenzene	2	4	50	3.90E-01	-	9.80E-01	8.90E-01	-	4.50E+00	AA-AO-BDB-01(5/1/2012)	NA		NA		**YES**	NSL
1,2-Dichloroethane	1	4	25	3.20E-01	-	8.10E-01	8.70E-01	-	8.70E-01	AA-AO-BDB-01(5/1/2012)	4.70E-01	c*	9.40E-02	c*	**YES**	ASL
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1	4	25	5.60E-01	-	3.80E+00	9.90E-02	-	9.90E-02	CS-AO-BDB-01(6/27/2012)	NA		NA		**YES**	NSL
Benzene	4	4	100	–	-	–	2.30E-01	-	5.10E+00	AA-AO-BDB-01(5/1/2012)	1.60E+00	c*	3.10E-01	c	**YES**	ASL
Carbon Tetrachloride	3	4	75	3.50E+00	-	3.50E+00	4.60E-01	-	6.80E-01	CS-AO-BDB-01(6/27/2012)	2.00E+00	c	4.10E-01	c	**YES**	ASL
Chloroform	3	4	75	9.80E-01	-	9.80E-01	1.30E-01	-	8.90E-01	AA-AO-BDB-01(5/1/2012)	5.30E-01	c	1.10E-01	c	**YES**	ASL
cis-1,2-Dichloroethene	1	4	25	3.20E-01	-	2.20E+00	1.50E-01	-	1.50E-01	CS-AO-BDB-01(6/27/2012)	NA		NA		**YES**	NSL
Ethylbenzene	3	4	75	8.70E-01	-	8.70E-01	4.50E-01	-	2.30E+01	AA-AO-BDB-01(5/1/2012)	4.90E+00	c	9.70E-01	c	**YES**	ASL
Methylene Chloride	4	4	100	–	-	–	1.40E+00	-	1.20E+02	AA-AO-BDB-01(5/1/2012)	1.20E+03	c**	9.60E+01	c**	**YES**	ASL
Trichloroethene	2	4	50	2.10E-01	-	1.10E+00	6.20E+00	-	8.10E+00	AA-AO-BDB-01(5/1/2012)	3.00E+00	c**	4.30E-01	c**	**YES**	ASL

–	Not applicable.	NA	Not available.	$\mu g/m^3$	Micrograms per cubic meters.
ASL	Above screening level.	NSL	No screening level.		
c	Cancer.	USEPA	United States Environmental Protection Agency.		
COPC	Constituent of Potential Concern.				

[a] All ambient air analytical data that are detected with a maximum concentration above the screening level are presented. For duplicate samples, the highest detected value or the lowest detection limit was selected.

[b] Frequency of detection is equal to the number of detects divided by the total number of samples analyzed.

[c] The screening levels used were the USEPA Industrial Air Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; and n = non-cancer.

[d] The screening levels used were the USEPA Residential Air Regional Screening Levels (RSLs) (USEPA 2012a). For constituents whose screening levels were based on cancer effects but the noncancer screening level was less than 10x the cancer level (tagged with c**), the non-cancer level was used after adjustment. c=cancer; *=where: n SL < 100X c SL; and n = non-cancer.

[e] A constituent detected with a maximum concentration above the minimium of USEPA Industrial and Residential Air RSL is considered a COPC. A constituent with a maximum concentration below the screening level is not considered a COPC. A constituent with no screening level is conservatively identified as a COPC.

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Table 21. Proposed Constituent List, Human Health Evaluation, Phase II Activities, USEPA RCRA 3013(a) Administrative Order, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Medium:	Groundwater	Soil	Surface Water	Sediment
Analytical Method:				
	Appendix IX VOCs	Appendix IX VOCs	Appendix IX VOCs	Appendix IX VOCs
	Appendix IX SVOCs	Appendix IX SVOCs	Appendix IX SVOCs	Appendix IX SVOCs
	Appendix IX Metals	Appendix IX Metals	Appendix IX Metals	Appendix IX Metals
		Appendix IX Dioxins/Furans	Dioxathion/Dioxenethion	Appendix IX Dioxins/Furans
		Appendix IX Pesticides	Appendix IX Dioxins/Furans[1]	Dioxathion/Dioxenethion
			Appendix IX PCBs[1]	Cyanide
			Appendix IX Pesticides[1]	

SVOCs Semivolatile Organic Compounds.
VOCs Volatile Organic Compounds.

Note: [1]Only 20 percent of samples collected will be analyzed.

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Table 22. Proposed Constituent List, Ecological Risk Evaluation, Phase II Activities, USEPA RCRA 3013(a) Administrative Order, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Medium:	Surface Soil	Surface Water	Sediment
Analytical Method:			
	Appendix IX VOCs	Appendix IX VOCs	Appendix IX VOCs
	Appendix IX SVOCs	Appendix IX SVOCs	Appendix IX SVOCs
	Appendix IX Metals	Appendix IX Metals	Appendix IX Metals
	Appendix IX Dioxins/Furans	Dioxathion/Dioxenethion	Appendix IX Dioxins/Furans
	Appendix IX Pesticides	Appendix IX Dioxins/Furans[1]	Appendix IX Pesticides
	Dioxathion/Dioxenethion	Appendix IX PCBs[1]	Dioxathion/Dioxenethion
		Appendix IX Pesticides[1]	Cyanide

ft bls Feet below land surface.
SVOCs Semivolatile Organic Compounds.
VOCs Volatile Organic Compounds.

Note: [1]Only 20 percent of samples collected will be analyzed.

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Table 23. Proposed Constituent List, Ambient Air Evaluation, Phase II Activities, USEPA RCRA 3013(a) Administrative Order, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Medium:	**Soil Gas/Ambient Air**
Analytical Method:	TO-15 VOCs

VOCs Volatile Organic Compounds.

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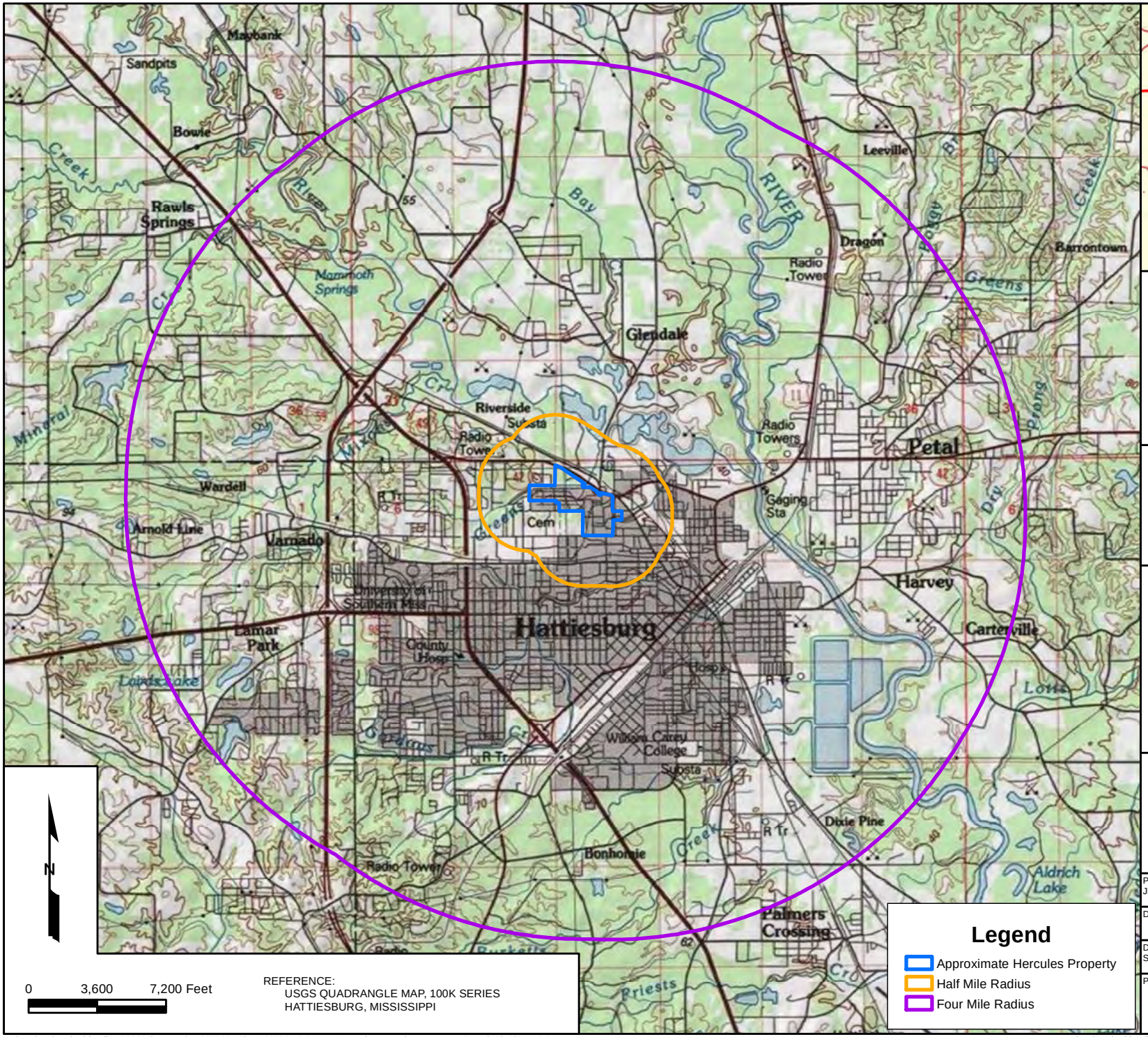
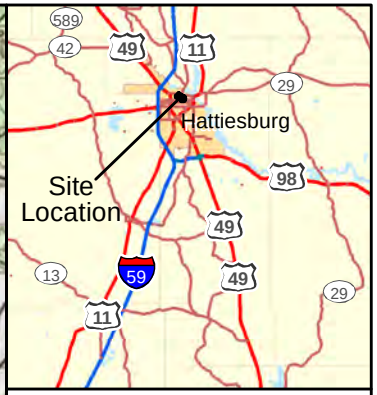
Figures





SITE LOCATION MAP

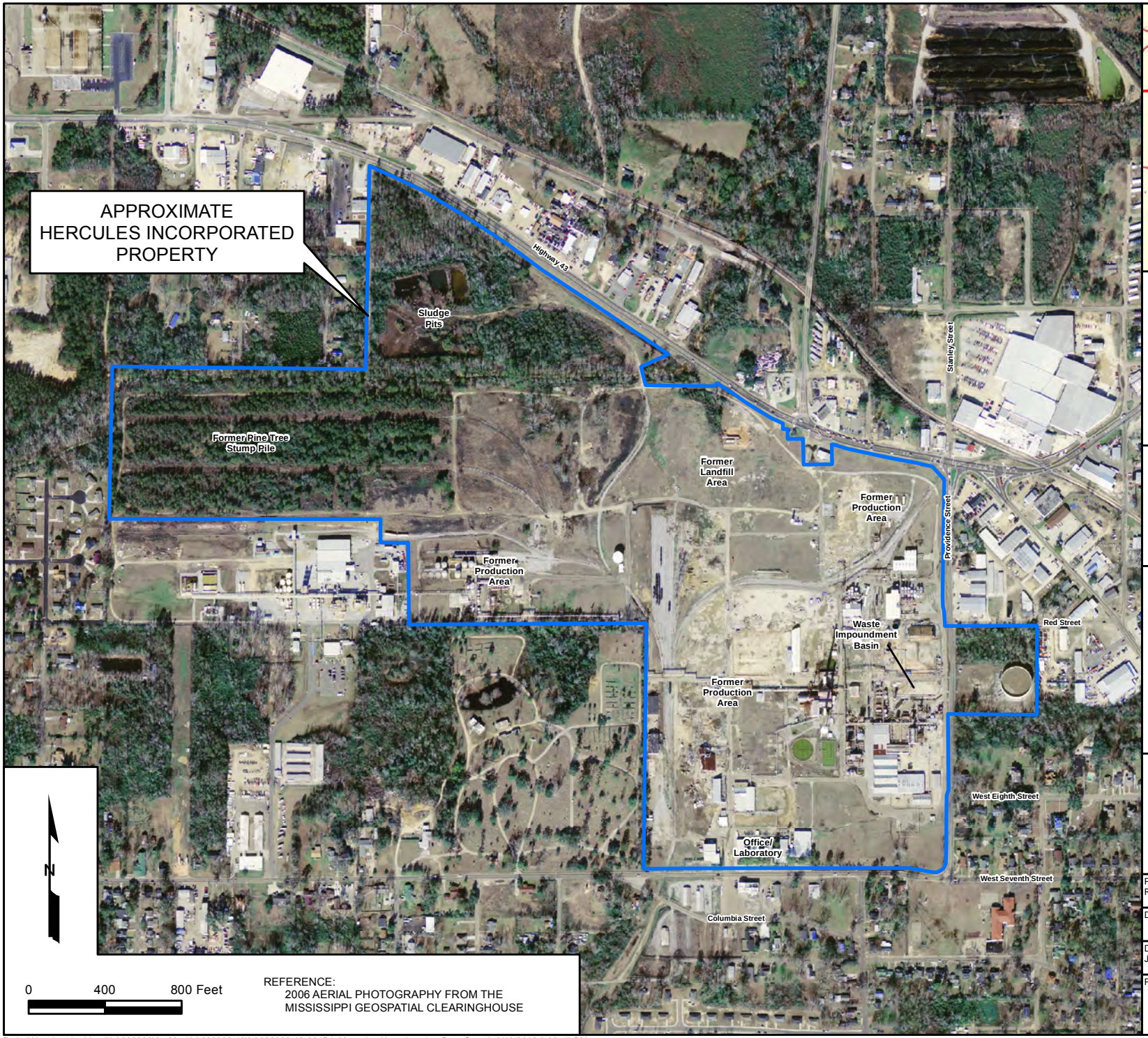
CONSTITUENTS OF POTENTIAL CONCERN TECHNICAL REPORT

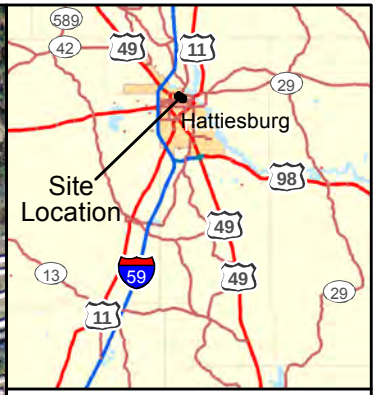
HERCULES INCORPORATED
Hattiesburg, Mississippi

ARCADIS

10352 PLAZA AMERICANA DRIVE
BATON ROUGE, LA 70816
TEL: 225-292-1004
FAX: 225-218-9677
WWW.ARCADIS-US.COM

PROJECT MANAGER: JE	CHECKED BY: CD
DRAWING FILE:	GIS FILE:
DRAWING BY: SDR	DATE: 9/12/2012
PROJECT NUMBER: LA002999.0012	FIGURE NUMBER: 1





SITE LAYOUT (2011) MAP

CONSTITUENTS OF POTENTIAL CONCERN TECHNICAL REPORT

HERCULES INCORPORATED
613 W. 7th Street
Hattiesburg, Mississippi

ARCADIS
10352 PLAZA AMERICANA DRIVE
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TEL: 225-292-1004
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PROJECT MANAGER: RJE	CHECKED BY: CD
DRAWING FILE:	GIS FILE:
DRAWING BY: JEC	DATE: 9/12/2012
PROJECT NUMBER: LA002999.0012	FIGURE NUMBER: 2

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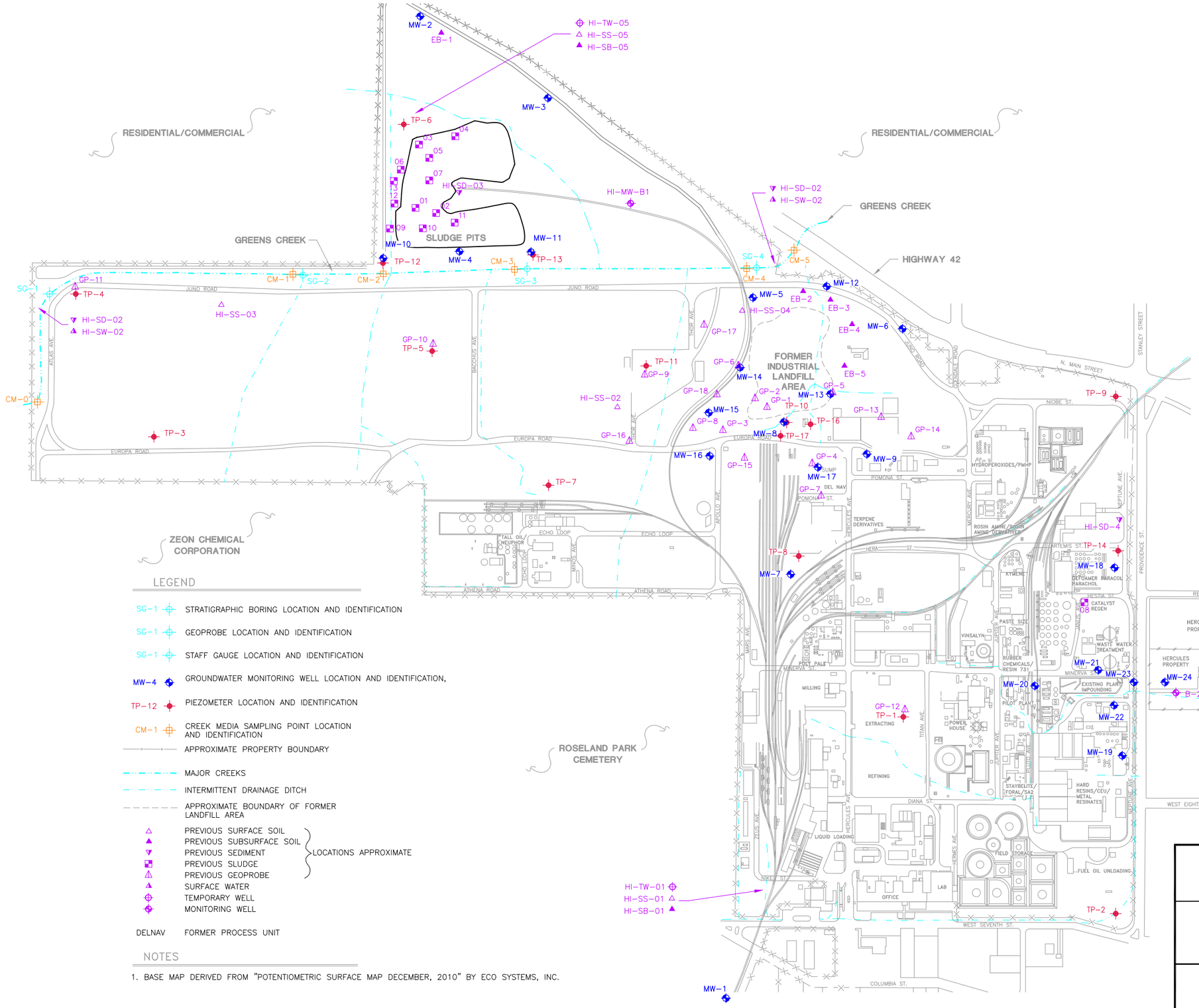

LEGEND

- SG-1 — STRATIGRAPHIC BORING LOCATION AND IDENTIFICATION
- SG-1 — GEOPROBE LOCATION AND IDENTIFICATION
- SG-1 — STAFF GAUGE LOCATION AND IDENTIFICATION
- MW-4 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION,
- TP-12 — PIEZOMETER LOCATION AND IDENTIFICATION
- CM-1 — CREEK MEDIA SAMPLING POINT LOCATION AND IDENTIFICATION
- APPROXIMATE PROPERTY BOUNDARY
- MAJOR CREEKS
- INTERMITTENT DRAINAGE DITCH
- APPROXIMATE BOUNDARY OF FORMER LANDFILL AREA

LOCATIONS APPROXIMATE:
- PREVIOUS SURFACE SOIL
- PREVIOUS SUBSURFACE SOIL
- PREVIOUS SEDIMENT
- PREVIOUS SLUDGE
- PREVIOUS GEOPROBE

- SURFACE WATER
- TEMPORARY WELL
- MONITORING WELL

DELNAV — FORMER PROCESS UNIT

NOTES

1. BASE MAP DERIVED FROM "POTENTIOMETRIC SURFACE MAP DECEMBER, 2010" BY ECO SYSTEMS, INC.

0 200' 400'
SCALE: 1"=200'

HERCULES INCORPORATED
613 W. 7TH STREET
HATTIESBURG, MS
Constituents of Potential Concern Technical Report

PREVIOUS SAMPLE LOCATION MAP

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FIGURE 3

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: R. PETRIE, S. BELL, P. LISTER PM/TM: R. ELLIS TR: C. DEROUEN LYR:ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTLA\02999\0012\302B1\DWG\02999B06.dwg LAYOUT: 3 SAVED: 9/13/2012 4:43 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/13/2012 4:43 PM BY: LISTER, PAUL
XREFS: 02999X00 02999X01 IMAGES: PROJECTNAME: ---

RESIDENTIAL/COMMERCIAL

RESIDENTIAL/COMMERCIAL

GREENS CREEK (NOTE 1)

HIGHWAY 42

SLUDGE PITS

FORMER INDUSTRIAL LANDFILL AREA

TO RIVER

RESIDENTIAL/COMMERCIAL

ZEON CHEMICAL CORPORATION

ROSELAND PARK CEMETERY

TO RIVER (NOTE 1)

HERCULES PROPERTY

HERCULES PROPERTY

WASTEWATER STORAGE

LEGEND

- AO-SW-01 — PHASE I/II SURFACE WATER/SEDIMENT SAMPLE LOCATION
- AO-GP-01 — PHASE I/II DIRECT PUSH SOIL/GROUNDWATER SAMPLE LOCATION
- SHADED LOCATIONS WILL BE SAMPLED DURING IMPLEMENTATION OF THE PHASE II WORK PLAN. LOCATIONS THAT ARE NOT SHADED WERE SAMPLED DURING IMPLEMENTATION OF THE PHASE I WORK PLAN.
- AO-SG-01 — SOIL GAS SAMPLE LOCATION
- MW-4 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION,
- TP-12 — PIEZOMETER LOCATION AND IDENTIFICATION
- WATER FLOW DIRECTION
- CM-1 — CREEK MEDIA SAMPLING POINT LOCATION AND IDENTIFICATION
- APPROXIMATE PROPERTY BOUNDARY
- INTERMITTENT DRAINAGE DITCH
- APPROXIMATE BOUNDARY OF FORMER LANDFILL AREA
- SURFACE SOIL
- SUBSURFACE SOIL
- SEDIMENT
- SLUDGE
- GEOPROBE
- SURFACE WATER
- TEMPORARY WELL
- MONITORING WELL
- UNDERGROUND PROCESS WASTEWATER CONVEYANCE
- ABOVE GROUND PROCESS WASTEWATER CONVEYANCE
- DELNAV — FORMER PROCESS UNIT

NOTE 1: UPSTREAM AND DOWNSTREAM SAMPLING OF OFFSITE SURFACE WATER CONVEYANCES WILL BE INCLUDED IN PHASE I WORK PLAN.

- * — SAMPLED FOR GROUNDWATER ONLY
- AO-SS-09 — PROPOSED PHASE II HAND AUGER SAMPLE LOCATION
- A372 — PROPOSED CITY SEWER SAMPLE LOCATION

SCALE: 1"=200'

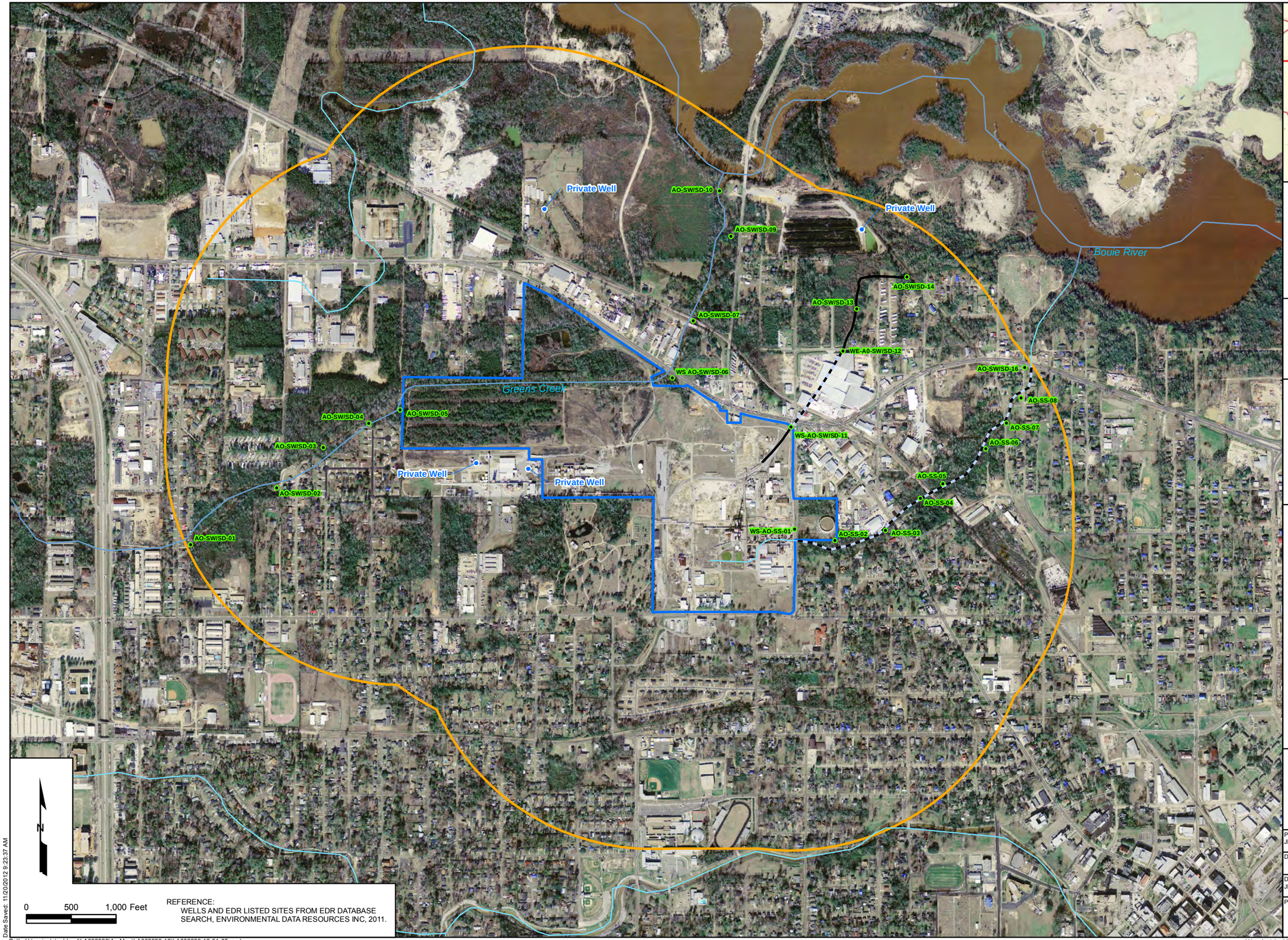
HERCULES INCORPORATED
613 W. 7TH STREET
HATTIESBURG, MS
Constituents of Potential Concern Technical Report

PHASE I AND PROPOSED PHASE II SAMPLE LOCATION MAP

ARCADIS

FIGURE 4

DB: R. PETRIE S. BELL LD: SOTHON MEN PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON="OFF"=REF*
G:\APROJECTS\shland\LA002999.0012\Figures\30181\2999-REV-phase2-04.dwg LAYOUT: 10SAVED: 9/12/2012 1:52 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/13/2012 3:07 PM BY: MEN, SOTHON
XREFS: IMAGES: PROJECTNAME: ---
02999X02-B
02999X03
02999B05-2007
01-TitleSept



PHASE I OFF-SITE SAMPLE LOCATION MAP

CONSTITUENTS OF POTENTIAL CONCERN TECHNICAL REPORT

HERCULES INCORPORATED
613 W. 7th Street
Hattiesburg, Mississippi

ARCADIS
10352 PLAZA AMERICANA DRIVE
BATON ROUGE, LA 70816
TEL: 225-292-1004
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Legend

- Private Well
- Phase I Surface Water/ Sediment/Surface Soil Sample Location
- Culverted Ditch
- Open Ditch
- Approximate Hercules Property
- Half Mile Radius

A0-SW-01 = Surface Water Sample Location
A0-SD-01 = Sediment Sample Location
A0-SS-01 = Surface Soil Sample Location

PROJECT MANAGER: JE	CHECKED BY: CD
DRAWING FILE:	GIS FILE:
DRAWING BY: JEC	DATE: 11/14/2012
PROJECT NUMBER: LA002999.0012	FIGURE NUMBER: 5

Date Saved: 11/20/2012 9:23:37 AM

Path: U:\projects\ashland\LA002999\ArcMap\LA002999-12\LA002999-12-01-05.mxd

U:\projects\ashland\LA002999\output\LA002999-12\LA002999-12-01-05.pdf

ARCADIS

Appendix A-1

Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-01 (040312) 04/03/12 AO-GP-01	GW-AO-GP-03 (040212) 04/02/12 AO-GP-03	GW-AO-GP-04 (033012) 03/30/12 AO-GP-04	GW-AO-GP-19D (032812) 03/28/12 AO-GP-19D	GW-AO-GP-19S (032812) 03/28/12 AO-GP-19S	GW-AO-GP-20 (040212) 04/02/12 AO-GP-20	GW-AO-GP-21 (040312) 04/03/12 AO-GP-21	GW-AO-GP-22 (040312) 04/03/12 AO-GP-22	GW-AO-GP-23 (040212) 04/02/12 AO-GP-23	GW-AO-GP-24D (03912) 03/29/12 AO-GP-24D	GW-AO-GP-24S (033012) 03/30/12 AO-GP-24S	GW-AO-GP-25 (032812) 03/28/12 AO-GP-25	GW-AO-GP-26 (040212) 04/02/12 AO-GP-26	GW-AO-GP-27 (032912) 03/29/12 AO-GP-27	GW-AO-GP-27 (040212) 04/02/12 AO-GP-27	GW-AO-GP-28D (033012) 03/30/12 AO-GP-28D
VOCs Method 8260																			
1,1,1,2-Tetrachloroethane	0.405735883	0.5	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,1,1-Trichloroethane	200	7,500	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,1,2,2-Tetrachloroethane	0.052745665	0.066	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,1,2-Trichloroethane	5	0.24	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,1-Dichloroethane	798.4375	2.4	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,1-Dichloroethene	7	260	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,2,3-Trichloropropane	0.006233456	0.00065	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,2,4-Trichlorobenzene	70	0.99	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,2-Dibromoethane	0.05	0.0065	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,2-Dichlorobenzene	600	280	ug/L	<1.0	<1.0	**1.4 [1.5]**	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,2-Dichloroethane	5	0.15	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	**0.33 J**	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,2-Dichloropropane	5	0.38	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,3-Dichlorobenzene	5.475	- -	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,4-Dichlorobenzene	75	0.42	ug/L	<1.0	<1.0	**0.33 J [0.29 J]**	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
1,4-Dioxane	6.088407006	0.67	ug/L	<50	**83**	<50 [<50]	<50	<50	<50	<50 [<50]	<50	<50	<50	<50	<50	<50	<50	NA	<63,000
2-Butanone	1,906.086427	4,900	ug/L	<10	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10 J	<10	<10	<10	<10	NA	<13,000
2-Chloro-1,3-butadiene	14.31372549	0.016	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
2-Hexanone	1,460	34	ug/L	<10	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	NA	<13,000
3-Chloropropene	- -	0.63	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
4-Methyl-2-pentanone	139.047619	1,000	ug/L	<10	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	**1.3 J**	<10	<10	NA	<13,000
Acetone	608.3333333	12,000	ug/L	<25	<25	**6.7 J [8.1 J]**	**52**	<25	<25	<25 [26]	**50**	<25	**11 J**	<25	**21 J**	**9.2 J**	**14 J**	NA	<31,000
Acetonitrile	125.1428571	130	ug/L	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	NA	<50,000
Acrolein	0.041607628	0.041	ug/L	<20	<20	<20 [<20]	<20	<20	<20	<20 [<20]	<20	<20	<20	<20	<20	<20	<20	NA	<25,000
Acrylonitrile	0.036724017	0.045	ug/L	<20	<20	<20 [<20]	<20	<20	<20	<20 [<20]	<20	<20	<20	<20	<20	<20	<20	NA	<25,000
Benzene	5	0.39	ug/L	<1.0	**140**	<1.0 [<1]	<1.0	<1.0	<1.0	**,300 D [1,300 D**	<1.0	<1.0	<1.0	<1.0	**0.36 J**	<1.0	<1.0	NA	**1,600**
Bromodichloromethane	0.167866259	0.12	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Bromoform	8.477528742	7.9	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Bromomethane	8.516666667	7	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Carbon Disulfide	1,042.857143	720	ug/L	<2.0	**1.5 J**	**1.3 J [1.3 J]**	<2.0	<2.0	<2.0	<2.0 [<2]	**7.9**	**1.4 J**	<2.0	<2.0	<2.0	<2.0	**1.9 J**	NA	<2,500
Carbon Tetrachloride	5	0.39	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	**0.52 J**	<1.0	<1.0	<1.0	<1.0	NA	**120,000**
Chlorobenzene	100	72	ug/L	<1.0	**6.5**	**15 [16]**	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	**400 J**
Chloroethane	3.637632051	21,000	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Chloroform	0.154585689	0.19	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	**23,000**
Chloromethane	1.434212853	190	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
cis-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Dibromochloromethane	0.125584916	0.15	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Dibromomethane	60.83333333	7.9	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Dichlorodifluoromethane	347.6190476	190	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Ethyl Methacrylate	547.5	420	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Ethylbenzene	700	1.3	ug/L	<1.0	**2.9**	<1.0 [<1]	<1.0	<1.0	<1.0	**440 D [440 D]**	<1.0	<1.0	**0.12 J**	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Hexachlorobutadiene	0.858621501	0.26	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Iodomethane	- -	- -	ug/L	<5.0	<5.0	<5.0 [<5]	<5.0 B	<5.0 B	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<6,300
Isobutanol	1,825	4,600	ug/L	<40	<40	<40 [<40]	<40	<40	<40	<40 [<40]	<40	<40	<40	<40	<40	<40	<40	NA	<50,000
Methacrylonitrile	1.042857143	0.75	ug/L	<20	<20	<20 [<20]	<20	<20	<20	<20 [<20]	<20	<20	<20	<20	<20	<20	<20	NA	<25,000
Methyl Methacrylate	1,419.444444	1,400	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Methylene Chloride	5	9.9	ug/L	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<6,300
Naphthalene	6.203966006	0.14	ug/L	<5.0	<5.0 *	<5.0 [<5]	<5.0	<5.0	<5.0 *	**500 D [570 D]**	<5.0	<5.0 *	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<6,300
Pentachloroethane	- -	0.56	ug/L	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<6,300
Propionitrile	- -	- -	ug/L	<20	<20	<20 [<20]	<20	<20	<20	<20 [<20]	<20	<20	<20	<20	<20	<20	<20	NA	<25,000
Styrene	100	1,100	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Tetrachloroethene	5	9.7	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Toluene	1,000	860	ug/L	<1.0	**160**	<1.0 [<1]	<1.0	<1.0	<1.0	**130 [140]**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
trans-1,2-Dichloroethene	100	86	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
trans-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
trans-1,4-Dichloro-2-butene	- -	0.0012	ug/L	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA	<2,500
Trichloroethene	5	0.44	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	**250 J**
Trichlorofluoromethane	1,288.235294	1,100	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Vinyl Acetate	412.1235491	410	ug/L	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA	<2,500
Vinyl Chloride	2	0.015	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1,300
Xylenes (total)	10,000	190	ug/L	<2.0	**4.5**	<2.0 [<2]	<2.0	<2.0	<2.0	**520 [550]**	<2.0	<2.0	**0.39 J**	<2.0	<2.0	<2.0	<2.0	NA	<2,500

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-01 (040312) 04/03/12 AO-GP-01	GW-AO-GP-03 (040212) 04/02/12 AO-GP-03	GW-AO-GP-04 (033012) 03/30/12 AO-GP-04	GW-AO-GP-19D (032812) 03/28/12 AO-GP-19D	GW-AO-GP-19S (032812) 03/28/12 AO-GP-19S	GW-AO-GP-20 (040212) 04/02/12 AO-GP-20	GW-AO-GP-21 (040312) 04/03/12 AO-GP-21	GW-AO-GP-22 (040312) 04/03/12 AO-GP-22	GW-AO-GP-23 (040212) 04/02/12 AO-GP-23	GW-AO-GP-24D (03912) 03/29/12 AO-GP-24D	GW-AO-GP-24S (033012) 03/30/12 AO-GP-24S	GW-AO-GP-25 (032812) 03/28/12 AO-GP-25	GW-AO-GP-26 (040212) 04/02/12 AO-GP-26	GW-AO-GP-27 (032912) 03/29/12 AO-GP-27	GW-AO-GP-27 (040212) 04/02/12 AO-GP-27	GW-AO-GP-28D (033012) 03/30/12 AO-GP-28D
VOCs Method 8011																			
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<0.020	<0.020	<0.020 [<0.02]	<0.021	<0.021	<0.021	<0.020 [<0.021]	<0.020	<0.020	<0.021	<0.021	<0.021	<0.020	<0.021	NA	<0.021
1,2-Dibromoethane	0.05	0.0065	ug/L	<0.020	<0.020	<0.020 [<0.02]	<0.021	<0.021	<0.021	<0.020 [<0.021]	<0.020	<0.020	<0.021	<0.021	**0.015 J**	<0.020	<0.021	NA	<0.021
SVOCs Method 8270C																			
1,1'-Biphenyl	304.1666667	0.83	ug/L	<0.99	<0.95	**4.3 J [0.14 J]**	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	**1,600,000 J**
1,2,4,5-Tetrachlorobenzene	10.95	1.2	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
1,2,4-Trichlorobenzene	70	0.99	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
1,2-Dichlorobenzene	600	280	ug/L	<0.99	<0.95	**1.0 [1.2]**	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
1,3,5-Trinitrobenzene	1,095	460	ug/L	<0.99 *	<0.95 *	<0.96 [<0.95]	<0.95	<0.95	<0.95 *	<95 J [<9.5 J]	<0.95	<0.96 *	<0.96	<0.95	<0.96	<0.96	NA	<0.99 *	<190,000 J
1,3-Dichlorobenzene	5.475	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
1,3-Dinitrobenzene	3.65	1.5	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
1,4-Dichlorobenzene	75	0.42	ug/L	<0.99	<0.95	**0.19 J [0.22 J]**	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
1,4-Dioxane	6.088407006	0.67	ug/L	<2.0	**200 D**	**0.40 J [0.41 J]**	**0.35 J**	**0.49 J**	<1.9	<190 J [<19 J]	**0.57 J**	<1.9	<1.9	<1.9	<1.9	<1.9	NA	**1.4 J**	<390,000 J
1,4-Naphthoquinone	- -	- -	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
1-Naphthylamine	- -	- -	ug/L	R	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	R	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
2,2'-Oxybis(1-Chloropropane)	0.2603888	0.31	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2,3,4,6-Tetrachlorophenol	1,095	170	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [4.2 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2,4,5-Trichlorophenol	3,650	890	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [1.8 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2,4,6-Trichlorophenol	6.088407006	3.5	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2,4-Dichlorophenol	109.5	35	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2,4-Dimethylphenol	730	270	ug/L	<2.0	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
2,4-Dinitrophenol	73	30	ug/L	<9.9	<9.5	<9.6 [<9.5]	<9.5	<9.5	<9.5	<950 J [<95 J]	<9.5	<9.6	<9.6	<9.5	<9.6	<9.6	NA	<9.9	<1,900,000 J
2,4-Dinitrotoluene	73	0.2	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2,6-Dichlorophenol	- -	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2,6-Dinitrotoluene	36.5	15	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2-Acetylaminofluorene	- -	0.014	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2-Chloronaphthalene	486.6666667	550	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2-Chlorophenol	30.41666667	71	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2-Methylnaphthalene	121.6666667	27	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	**64 J [65 J]**	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
2-Methylphenol	1,825	720	ug/L	<2.0	**2.0**	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
2-Naphthylamine	- -	0.033	ug/L	R	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	R	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
2-Nitroaniline	0.417142857	150	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2-Nitrophenol	0.4161	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
2-Picoline	- -	- -	ug/L	<2.0 J	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
3,3'-Dichlorobenzidine	0.148827727	0.11	ug/L	R	<19	<19 [<19]	<19	<19	<19	<1,900 J [<190 J	<19	<19	R	<19	<19	<19	NA	<20	<3,900,000 J
3,3'-Dimethylbenzidine	0.007279617	0.0056	ug/L	R	<19	<19 [<19]	<19	<19	<19	<1,900 J [<190 J	<19	<19	<19	<19	<19	<19	NA	<20	<3,900,000 J
3-Methylcholanthrene	- -	0.00098	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
3-Nitroaniline	- -	- -	ug/L	R	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	<4.8 J	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
4,6-Dinitro-2-methylphenol	3.65	1.2	ug/L	<4.9	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	<4.8	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
4-Aminobiphenyl	- -	0.0026	ug/L	R	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	R	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
4-Bromophenyl-phenylether	- -	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
4-Chloro-3-Methylphenol	73,000	1,100	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96 J	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
4-Chloroaniline	146	0.32	ug/L	R	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
4-Chlorophenyl-phenylether	- -	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
4-Methylphenol	182.5	1,400	ug/L	<2.0	**3.0**	**0.75 J [0.99 J]**	<1.9	<1.9	<1.9	<190 J [<19 J]	**5.5**	<1.9	<1.9	<1.9	<1.9	**1.2 J**	NA	<2.0	<390,000 J
4-Nitroaniline	- -	3.3	ug/L	R	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	<4.8	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
4-Nitrophenol	292	- -	ug/L	<4.9	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	<4.8	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
4-Nitroquinoline-1-oxide	- -	- -	ug/L	<2.0 J	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
4-Phenylenediamine	6,935	3,000	ug/L	R	<190	<190 [<190]	<190	<190	<190	9,000 J [<1,900	<190	<190	<190	<190	<190	<190	NA	<200	<39,000,000 J
5-Nitro-o-toluidine	2.029469002	7	ug/L	R	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
7,12-Dimethylbenz(a)anthracene	- -	0.000086	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
a,a'-Dimethylphenethylamine	- -	- -	ug/L	R	<9.5	<9.6 [<9.5]	<9.5	<9.5	<9.5	<950 J [<95 J]	<9.5	<9.6	R	<9.5	<9.6	<9.6	NA	<9.9	<1,900,000 J
Acenaphthene	365	400	ug/L	<0.20	<0.19	<0.19 [<0.19]	**0.36**	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Acenaphthylene	2,190	- -	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Acetophenone	0.041609526	1,500	ug/L	<0.99 B	JB	<0.96 [<0.95 B]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95 B	JB	<0.96	<0.95	<0.96 B	<0.96 B	NA	JB	<190,000 J
Aniline	11.74955738	12	ug/L	R	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9 J	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
Anthracene	43.4	1,300	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Aramite	- -	2.7	ug/L	<1.5 J	<1.4 *	<1.4 [<1.4]	<1.4	<1.4	<1.4 *	<140 J [<14 J]	<1.4	<1.4 *	<1.4	<1.4	<1.4	<1.4	NA	<1.5 *	<290,000 J
Benzo(a)anthracene	0.091743119	0.029	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Benzo(a)pyrene	0.2	0.0029	ug/L	<0.20 J	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Benzo(b)fluoranthene	0.091743119	0.029	ug/L	<0.20 J	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-01 (040312) 04/03/12 AO-GP-01	GW-AO-GP-03 (040212) 04/02/12 AO-GP-03	GW-AO-GP-04 (033012) 03/30/12 AO-GP-04	GW-AO-GP-19D (032812) 03/28/12 AO-GP-19D	GW-AO-GP-19S (032812) 03/28/12 AO-GP-19S	GW-AO-GP-20 (040212) 04/02/12 AO-GP-20	GW-AO-GP-21 (040312) 04/03/12 AO-GP-21	GW-AO-GP-22 (040312) 04/03/12 AO-GP-22	GW-AO-GP-23 (040212) 04/02/12 AO-GP-23	GW-AO-GP-24D (03912) 03/29/12 AO-GP-24D	GW-AO-GP-24S (033012) 03/30/12 AO-GP-24S	GW-AO-GP-25 (032812) 03/28/12 AO-GP-25	GW-AO-GP-26 (040212) 04/02/12 AO-GP-26	GW-AO-GP-27 (032912) 03/29/12 AO-GP-27	GW-AO-GP-27 (040212) 04/02/12 AO-GP-27	GW-AO-GP-28D (033012) 03/30/12 AO-GP-28D
Benzo(g,h,i)perylene	1,095	- -	ug/L	<0.20 J	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Benzo(k)fluoranthene	0.917431193	0.29	ug/L	<0.20 J	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Benzyl Alcohol	10,950	1,500	ug/L	<0.99 J	<0.95	**0.14 J [0.14 J]**	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	**0.13 J**	<0.96	**0.15 J**	NA	**0.14 J**	<190,000 J
bis(2-Chloroethoxy)methane	- -	47	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
bis(2-Chloroethyl)ether	0.009202473	0.012	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
bis(2-Ethylhexyl)phthalate	6	0.071	ug/L	<2.0	**0.76 J**	<1.9 [<1.9]	**1.9**	<1.9	**1.2 J**	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	**0.65 J**	NA	**0.68 J**	<390,000 J
Butylbenzylphthalate	2,690	14	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Chrysene	9.174311927	2.9	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Diallate	- -	0.46	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Dibenzo(a,h)anthracene	0.009174312	0.0029	ug/L	<0.20 J	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Dibenzofuran	24.33333333	5.8	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Diethylphthalate	29,200	11,000	ug/L	**0.11 J**	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	**0.19 J**	<0.96	<0.96	<0.95	<0.96	**0.25 J**	NA	**0.18 J**	<190,000 J
Dimethoate	- -	3.1	ug/L	<2.0	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
Dimethylphthalate	365,000	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Di-n-Butylphthalate	3,650	670	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Di-n-Octylphthalate	20	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Dinoseb	7	11	ug/L	<2.0	<1.9	NA	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
Diphenyl Ether	- -	- -	ug/L	<0.99	<0.95	**49 EJ [46]**	**340 EJ**	**25**	<0.95	<95 J [<9.5 J]	**0.20 J**	**0.46 J**	**0.16 J**	**0.12 J**	**1.5**	<0.96	NA	<0.99	**4,700,000 J**
Disulfoton	1.46	0.38	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Ethyl Methanesulfonate	- -	- -	ug/L	<2.0	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
Ethyl Parathion	219	65	ug/L	<2.0	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
Famphur	- -	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Fluoranthene	1,460	630	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Fluorene	243.3333333	220	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Hexachlorobenzene	1	0.042	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Hexachlorobutadiene	0.858621501	0.26	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Hexachlorocyclopentadiene	50	22	ug/L	<2.0	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
Hexachloroethane	4.783748362	0.79	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Hexachlorophene	10.95	4.7	ug/L	R	<470 *	R [R]	R	R	<480 *	R [R]	R	<480 *	R	R	R	R	NA	<490 *	R
Hexachloropropene	- -	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Indeno(1,2,3-cd)pyrene	0.091743119	0.029	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Isophorone	70.49734428	67	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Isosafrole	- -	- -	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Methapyrilene	- -	- -	ug/L	R	<190	<190 [<190]	<190	<190	<190	9,000 J [<1,900	<190	<190	R	<190	<190	<190	NA	<200	<39,000,000 J
Methyl Methanesulfonate	- -	0.68	ug/L	<2.0	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
Methyl Parathion	9.125	3.4	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Naphthalene	6.203966006	0.14	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	**380 J [360 J]**	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Nitrobenzene	3.532258065	0.12	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitrosodiethylamine	0.000446483	0.00014	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitrosodimethylamine	0.001313186	0.00042	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitroso-di-n-butylamine	0.001894431	0.0024	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitroso-di-n-propylamine	0.009567497	0.0093	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitrosodiphenylamine	13.66785246	10	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitrosomethylethylamine	0.003044204	0.003	ug/L	<2.0	<1.9	<1.9 [<1.9]	<1.9	<1.9	<1.9	<190 J [<19 J]	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	NA	<2.0	<390,000 J
N-Nitrosomorpholine	- -	0.01	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitrosopiperidine	- -	0.0071	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
N-Nitrosopyrrolidine	0.031891656	0.032	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
o,o,o-Triethylphosphorothioate	- -	- -	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
o-Toluidine	0.279051988	- -	ug/L	R	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
p-Dimethylaminoazobenzene	- -	0.0043	ug/L	<4.9 J	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	<4.8	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
Pentachlorobenzene	29.2	2.3	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Pentachloronitrobenzene	0.25758645	0.1	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Pentachlorophenol	1	0.17	ug/L	<4.9	<4.7	NA	<4.8	<4.7	<4.8	<470 J [44 J]	<4.7	<4.8	<4.8	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
Phenacetin	- -	30	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Phenanthrene	1,095	- -	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Phenol	21,900	4,500	ug/L	<0.99	<0.95	<0.96 [0.16 J]	**2.8**	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Phorate	- -	2.3	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96 J	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Pronamide	- -	900	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Pyrene	182.5	87	ug/L	<0.20	<0.19	<0.19 [<0.19]	<0.19	<0.19	<0.19	<19 J [<1.9 J]	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	NA	<0.20	<39,000 J
Pyridine	36.5	15	ug/L	R	<4.7	<4.8 [<4.7]	<4.8	<4.7	<4.8	<470 J [<47 J]	<4.7	<4.8	<4.8	<4.8	<4.8	<4.8	NA	<4.9	<970,000 J
Safrole	- -	0.062	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Sulfotep	- -	5.3	ug/L	<0.99	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J
Thionazin	- -	- -	ug/L	<0.99 J	<0.95	<0.96 [<0.95]	<0.95	<0.95	<0.95	<95 J [<9.5 J]	<0.95	<0.96	<0.96	<0.95	<0.96	<0.96	NA	<0.99	<190,000 J

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-01 (040312) 04/03/12 AO-GP-01	GW-AO-GP-03 (040212) 04/02/12 AO-GP-03	GW-AO-GP-04 (033012) 03/30/12 AO-GP-04	GW-AO-GP-19D (032812) 03/28/12 AO-GP-19D	GW-AO-GP-19S (032812) 03/28/12 AO-GP-19S	GW-AO-GP-20 (040212) 04/02/12 AO-GP-20	GW-AO-GP-21 (040312) 04/03/12 AO-GP-21	GW-AO-GP-22 (040312) 04/03/12 AO-GP-22	GW-AO-GP-23 (040212) 04/02/12 AO-GP-23	GW-AO-GP-24D (03912) 03/29/12 AO-GP-24D	GW-AO-GP-24S (033012) 03/30/12 AO-GP-24S	GW-AO-GP-25 (032812) 03/28/12 AO-GP-25	GW-AO-GP-26 (040212) 04/02/12 AO-GP-26	GW-AO-GP-27 (032912) 03/29/12 AO-GP-27	GW-AO-GP-27 (040212) 04/02/12 AO-GP-27	GW-AO-GP-28D (033012) 03/30/12 AO-GP-28D
Organochlorine Pest Method 8081																			
4,4'-DDD	0.279051988	0.28	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.196977874	0.2	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.196977874	0.2	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
4-Chlorobenzilate	0.248046211	0.27	ug/L	NA	NA	<0.49 [<0.48]	NA	NA	NA	NA	NA	NA	<0.48	NA	NA	NA	NA	NA	NA
Aldrin	0.003939557	0.00021	ug/L	NA	NA	<0.049 [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.010630552	0.0062	ug/L	NA	NA	0.049 J [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Beta-BHC	0.037206932	0.022	ug/L	NA	NA	<0.049 [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Delta-BHC	- -	- -	ug/L	NA	NA	<0.049 [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Dieldrin	0.00418578	0.0015	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
Endosulfan I	219	- -	ug/L	NA	NA	**0.016 J [<0.048]**	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Endosulfan II	219	- -	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	- -	- -	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
Endrin	2	1.7	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	- -	- -	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096 J	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	0.2	0.036	ug/L	NA	NA	<0.049 [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Heptachlor	0.4	0.0018	ug/L	NA	NA	0.049 J [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	0.2	0.0033	ug/L	NA	NA	0.049 J [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Isodrin	- -	- -	ug/L	NA	NA	<0.049 [<0.048]	NA	NA	NA	NA	NA	NA	<0.048	NA	NA	NA	NA	NA	NA
Kepone	- -	0.003	ug/L	NA	NA	<0.98 [<0.96]	NA	NA	NA	NA	NA	NA	<0.96	NA	NA	NA	NA	NA	NA
Methoxychlor	40	27	ug/L	NA	NA	0.098 J [<0.096]	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA
Technical Chlordane	2	- -	ug/L	NA	NA	<0.49 [<0.48]	NA	NA	NA	NA	NA	NA	<0.48	NA	NA	NA	NA	NA	NA
Toxaphene	3	0.013	ug/L	NA	NA	<4.9 [<4.8]	NA	NA	NA	NA	NA	NA	<4.8	NA	NA	NA	NA	NA	NA
PCBs Method 8082																			
Aroclor-1016	0.956749672	0.96	ug/L	NA	NA	<0.38 [<0.38]	NA	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	NA	NA
Aroclor-1221	0.033486239	0.0043	ug/L	NA	NA	<0.38 [<0.38]	NA	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.033486239	0.0043	ug/L	NA	NA	<0.38 [<0.38]	NA	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.033486239	0.034	ug/L	NA	NA	<0.38 [<0.38]	NA	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.033486239	0.034	ug/L	NA	NA	<0.38 [<0.38]	NA	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.033486239	0.034	ug/L	NA	NA	<0.38 [<0.38]	NA	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.033486239	0.034	ug/L	NA	NA	<0.38 [<0.38]	NA	NA	NA	NA	NA	NA	<0.38	NA	NA	NA	NA	NA	NA
Herbicides Method 8151																			
2,4,5-T	365	120	ug/L	NA	NA	<0.48 [<0.48]	NA	NA	NA	NA	NA	NA	<0.48	NA	NA	NA	NA	NA	NA
2,4,5-TP	50	84	ug/L	NA	NA	<0.48 [<0.48]	NA	NA	NA	NA	NA	NA	<0.48	NA	NA	NA	NA	NA	NA
2,4-D	70	130	ug/L	NA	NA	<0.48 [<0.48]	NA	NA	NA	NA	NA	NA	<0.48	NA	NA	NA	NA	NA	NA
Dinoseb	7	11	ug/L	NA	NA	<5.8 [<5.8]	NA	NA	NA	NA	NA	NA	<5.8	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	0.17	ug/L	NA	NA	<0.24 [<0.24]	NA	NA	NA	NA	NA	NA	<0.24	NA	NA	NA	NA	NA	NA
Dioxathion/Dioxenethion Method 8310																			
cis-Dioxathion	54.75	- -	ug/L	NA	NA	<2.5 [<2.5]	NA	NA	NA	NA	NA	NA	**3.59**	NA	NA	NA	NA	NA	NA
Dioxenethion	- -	- -	ug/L	NA	NA	**9.26 [9.42]**	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA
trans-Dioxathion	54.75	- -	ug/L	NA	NA	<2.5 [<2.5]	NA	NA	NA	NA	NA	NA	<2.5	NA	NA	NA	NA	NA	NA
Dioxins and Furans Method 8290																			
1,2,3,4,6,7,8-HpCDD	44.6483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	44.6483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	44.6483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	4.46483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	10.802	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	10.802	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	4.46483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	0.892966	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	8.92966	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	0.892966	- -	pg/L	NA	NA	<47 [<47]	NA	NA	NA	NA	NA	NA	<47	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	0.52	pg/L	NA	NA	<9.4 [<9.4]	NA	NA	NA	NA	NA	NA	<9.4	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	4.46483	- -	pg/L	NA	NA	<9.4 [<9.4]	NA	NA	NA	NA	NA	NA	<9.4	NA	NA	NA	NA	NA	NA
Octachlorodibenzofuran	446.483	- -	pg/L	NA	NA	<94 [<94]	NA	NA	NA	NA	NA	NA	<94	NA	NA	NA	NA	NA	NA
Octachlorodibenzo-p-Dioxin	446.483	- -	pg/L	NA	NA	<94 B [<94]	NA	NA	NA	NA	NA	NA	<94	NA	NA	NA	NA	NA	NA

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-01 (040312) 04/03/12 AO-GP-01	GW-AO-GP-03 (040212) 04/02/12 AO-GP-03	GW-AO-GP-04 (033012) 03/30/12 AO-GP-04	GW-AO-GP-19D (032812) 03/28/12 AO-GP-19D	GW-AO-GP-19S (032812) 03/28/12 AO-GP-19S	GW-AO-GP-20 (040212) 04/02/12 AO-GP-20	GW-AO-GP-21 (040312) 04/03/12 AO-GP-21	GW-AO-GP-22 (040312) 04/03/12 AO-GP-22	GW-AO-GP-23 (040212) 04/02/12 AO-GP-23	GW-AO-GP-24D (03912) 03/29/12 AO-GP-24D	GW-AO-GP-24S (033012) 03/30/12 AO-GP-24S	GW-AO-GP-25 (032812) 03/28/12 AO-GP-25	GW-AO-GP-26 (040212) 04/02/12 AO-GP-26	GW-AO-GP-27 (032912) 03/29/12 AO-GP-27	GW-AO-GP-27 (040212) 04/02/12 AO-GP-27	GW-AO-GP-28D (033012) 03/30/12 AO-GP-28D
Total Metals Method 6020																			
Antimony	6	6	ug/L	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	**2.4 J**
Arsenic	50	0.045	ug/L	**4.3**	**5.0**	**3.5 [4.1]**	**52**	**4.9**	<2.5	**57 [55]**	**2.3 J**	**4.2**	<2.5	<2.5	**1.3 J**	**4.3**	<2.5	NA	**25**
Barium	2,000	2,900	ug/L	**68**	**530**	**200 [200]**	**150**	**74**	**53**	**160 [160]**	**110**	**46**	**120**	**52**	**90**	**120**	**54**	NA	**340**
Beryllium	4	16	ug/L	**0.41 J**	<0.50	<0.50 [<0.5]	<0.50	<0.50	<0.50	<0.50 [<0.5]	<0.50	<0.50	**0.21 J**	<0.50	<0.50	**3.9**	<0.50	NA	**1.2**
Cadmium	5	6.9	ug/L	<0.50	<0.50	<0.50 [<0.5]	<0.50	<0.50	<0.50	<0.50 [<0.5]	<0.50	<0.50	<0.50	<0.50	<0.50	**0.95**	<0.50	NA	**0.33 J**
Chromium	- -	- -	ug/L	**2.6 J**	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	**22**	<5.0	NA	**92**
Cobalt	2,190	4.7	ug/L	**2.3**	**6.2**	**0.60 [0.69]**	**10**	**6.2**	**1.7**	**1.0 [1]**	**5.2**	**3.4**	**2.7**	**1.6**	**4.2**	**50**	**1.1**	NA	**17**
Copper	1,300	620	ug/L	**1.2 J**	<5.0	<5.0 [1.4 J]	<5.0	<5.0	**1.1 J**	<5.0 [<5]	<5.0	<5.0	**3.0 J**	<5.0	**1.3 J**	**5.8**	**2.7 J**	NA	**26**
Lead	15	- -	ug/L	<1.5 B	<1.8 B	**0.78 J [<1.5]**	<1.5 B	<1.5 B	JB	<1.5 B [<1.5 B]	<1.5 B	JB	<2.2 B	<1.5	<1.5 B	**12 B**	**0.62 J**	NA	**35**
Nickel	730	300	ug/L	**4.6 J**	**2.5 J**	<5.0 [<5]	<5.0	**2.1 J**	**2.2 J**	<5.0 [2 J]	**3.0 J**	**4.1 J**	**9.1**	**3.4 J**	**8.2**	**88**	**2.6 J**	NA	**28**
Selenium	50	78	ug/L	<2.5	<2.5	<2.5 [<2.5]	<2.5	<2.5	<2.5	**1.3 J [1.2 J]**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	<5.9 B
Silver	182.5	71	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0
Thallium	2	0.16	ug/L	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0	<1.0	<1.0	<1.0	**0.28 J**	<1.0	NA	**0.38 J**
Tin	21,900	9,300	ug/L	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0	<5.0	<5.0	<5.0	**1.7 J**	<5.0	NA	**9.8**
Vanadium	255.5	78	ug/L	**8.3 J**	<10	<10 [<10]	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10	**29**	<10	NA	**86**
Zinc	10,950	4,700	ug/L	<20	<20	<20 [9.4 J]	<20	<20	<20	<20 [<20]	<20	<20	<20	**9.2 J**	**9.3 J**	**540**	**9.2 J**	NA	**63**
Total Metals Method 7470																			
Mercury	2	0.63	ug/L	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	<0.20
Cyanide																			
Cyanide	0.2	0.0093	mg/L	NA	NA	<0.010 [<0.01]	NA	NA	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA
Sulfide																			
Sulfide	- -	- -	mg/L	NA	NA	**3.1 [1.6]**	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA	NA

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-28S (032712) 03/27/12 AO-GP-28S	GW-AO-GP-29D (032712) 03/27/12 AO-GP-29D	GW-AO-GP-29S (032712) 03/27/12 AO-GP-29S	GW-AO-GP-30D (032812) 03/28/12 AO-GP-30D	GW-AO-GP-30S (032912) 03/29/12 AO-GP-30S	GW-AO-GP-31 (032812) 03/28/12 AO-GP-31	GW-AO-GP-32 (032912) 03/29/12 AO-GP-32	GW-AO-GP-33 (040312) 04/03/12 AO-GP-33
VOCs Method 8260											
1,1,1,2-Tetrachloroethane	0.405735883	0.5	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	7,500	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	0.052745665	0.066	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.24	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	798.4375	2.4	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	260	ug/L	<500	<1.0	<1.0	<1.0	<1.0	**0.28 J**	<1.0	<1.0
1,2,3-Trichloropropane	0.006233456	0.00065	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	0.99	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	0.05	0.0065	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	280	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	5	0.15	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.38	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	5.475	- -	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	75	0.42	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	6.088407006	0.67	ug/L	<25,000	<50	<50	<50	<50	<50	<50	<50
2-Butanone	1,906.086427	4,900	ug/L	<5,000	<10	<10	<10	**1.1 J**	<10	<10	<10
2-Chloro-1,3-butadiene	14.31372549	0.016	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	1,460	34	ug/L	<5,000	<10	<10	<10	<10	<10	<10	<10
3-Chloropropene	- -	0.63	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	139.047619	1,000	ug/L	<5,000	<10	<10	<10	**2.1 J**	<10	<10	<10
Acetone	608.3333333	12,000	ug/L	<13,000	<25	**20 J**	**27**	**32**	<25	<25	<25
Acetonitrile	125.1428571	130	ug/L	<20,000	<40	<40	<40	<40	<40	<40	<40
Acrolein	0.041607628	0.041	ug/L	<10,000	<20	<20	<20	<20	<20	<20	<20
Acrylonitrile	0.036724017	0.045	ug/L	<10,000	<20	<20	<20	<20	<20	<20	<20
Benzene	5	0.39	ug/L	**930**	<1.0	<1.0	<1.0	<1.0	**2.5**	<1.0	<1.0
Bromodichloromethane	0.167866259	0.12	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	8.477528742	7.9	ug/L	<500	<1.0	<1.0	<1.0	<1.0 J	<1.0	<1.0	<1.0
Bromomethane	8.516666667	7	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	1,042.857143	720	ug/L	**610 J**	<2.0	<2.0	<2.0	**11**	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	0.39	ug/L	**68,000**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	72	ug/L	**210 J**	<1.0	<1.0	<1.0	<1.0	**3.9**	<1.0	<1.0
Chloroethane	3.637632051	21,000	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	0.154585689	0.19	ug/L	**5,200**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	1.434212853	190	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	- -	- -	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	0.125584916	0.15	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	60.83333333	7.9	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	347.6190476	190	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl Methacrylate	547.5	420	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	700	1.3	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.12 J**
Hexachlorobutadiene	0.858621501	0.26	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iodomethane	- -	- -	ug/L	<2,500	<5.0	<5.0	<5.0 B	<5.0	<5.0	<5.0	<5.0
Isobutanol	1,825	4,600	ug/L	<20,000	<40	<40	<40	<40	<40	<40	<40
Methacrylonitrile	1.042857143	0.75	ug/L	<10,000	<20	<20	<20	<20	<20	<20	<20
Methyl Methacrylate	1,419.444444	1,400	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	5	9.9	ug/L	<2,500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	6.203966006	0.14	ug/L	<2,500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**2.4 J**
Pentachloroethane	- -	0.56	ug/L	<2,500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Propionitrile	- -	- -	ug/L	<10,000	<20	<20	<20	<20	<20	<20	<20
Styrene	100	1,100	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	9.7	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1,000	860	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	86	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	- -	- -	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	- -	0.0012	ug/L	<1,000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	5	0.44	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	1,288.235294	1,100	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	412.1235491	410	ug/L	<1,000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	2	0.015	ug/L	<500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	10,000	190	ug/L	<1,000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-28S (032712) 03/27/12 AO-GP-28S	GW-AO-GP-29D (032712) 03/27/12 AO-GP-29D	GW-AO-GP-29S (032712) 03/27/12 AO-GP-29S	GW-AO-GP-30D (032812) 03/28/12 AO-GP-30D	GW-AO-GP-30S (032912) 03/29/12 AO-GP-30S	GW-AO-GP-31 (032812) 03/28/12 AO-GP-31	GW-AO-GP-32 (032912) 03/29/12 AO-GP-32	GW-AO-GP-33 (040312) 04/03/12 AO-GP-33
VOCs Method 8011											
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<0.020 J	<0.021 J	<0.020 J	<0.021	<0.021	<0.020	<0.021	<0.020
1,2-Dibromoethane	0.05	0.0065	ug/L	<0.020	<0.021	<0.020	<0.021	<0.021	<0.020	<0.021	<0.020
SVOCs Method 8270C											
1,1'-Biphenyl	304.1666667	0.83	ug/L	**1,100 J**	<0.96	<0.96	<0.95	<0.95	**0.097 J**	<0.95	<0.95
1,2,4,5-Tetrachlorobenzene	10.95	1.2	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
1,2,4-Trichlorobenzene	70	0.99	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
1,2-Dichlorobenzene	600	280	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
1,3,5-Trinitrobenzene	1,095	460	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
1,3-Dichlorobenzene	5.475	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
1,3-Dinitrobenzene	3.65	1.5	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
1,4-Dichlorobenzene	75	0.42	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	**0.097 J**	<0.95	<0.95
1,4-Dioxane	6.088407006	0.67	ug/L	<190 J	**0.32 J**	**0.43 J**	<1.9	<1.9	**5.4**	<1.9	<1.9
1,4-Naphthoquinone	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
1-Naphthylamine	- -	- -	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
2,2'-Oxybis(1-Chloropropane)	0.2603888	0.31	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2,3,4,6-Tetrachlorophenol	1,095	170	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2,4,5-Trichlorophenol	3,650	890	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2,4,6-Trichlorophenol	6.088407006	3.5	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2,4-Dichlorophenol	109.5	35	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2,4-Dimethylphenol	730	270	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
2,4-Dinitrophenol	73	30	ug/L	<960 J	<9.6	<9.6	<9.5	<9.5	<9.5	<9.5	<9.5
2,4-Dinitrotoluene	73	0.2	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2,6-Dichlorophenol	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2,6-Dinitrotoluene	36.5	15	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2-Acetylaminofluorene	- -	0.014	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2-Chloronaphthalene	486.6666667	550	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2-Chlorophenol	30.41666667	71	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2-Methylnaphthalene	121.6666667	27	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
2-Methylphenol	1,825	720	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
2-Naphthylamine	- -	0.033	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
2-Nitroaniline	0.417142857	150	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
2-Nitrophenol	0.4161	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	**0.64 J**	<0.95	<0.95
2-Picoline	- -	- -	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
3,3'-Dichlorobenzidine	0.148827727	0.11	ug/L	<1,900 J	<19	<19	<19	<19	<19	<19	<19
3,3'-Dimethylbenzidine	0.007279617	0.0056	ug/L	<1,900 J	<19	<19	<19	<19	<19	<19	<19
3-Methylcholanthrene	- -	0.00098	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
3-Nitroaniline	- -	- -	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
4,6-Dinitro-2-methylphenol	3.65	1.2	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
4-Aminobiphenyl	- -	0.0026	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
4-Bromophenyl-phenylether	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
4-Chloro-3-Methylphenol	73,000	1,100	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
4-Chloroaniline	146	0.32	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
4-Chlorophenyl-phenylether	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
4-Methylphenol	182.5	1,400	ug/L	<190 J	<1.9	<1.9	<1.9	**0.64 J**	<1.9	<1.9	<1.9
4-Nitroaniline	- -	3.3	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
4-Nitrophenol	292	- -	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
4-Nitroquinoline-1-oxide	- -	- -	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
4-Phenylenediamine	6,935	3,000	ug/L	<19,000 J	<190	<190	<190	<190	<190	<190	<190
5-Nitro-o-toluidine	2.029469002	7	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
7,12-Dimethylbenz(a)anthracene	- -	0.000086	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
a,a'-Dimethylphenethylamine	- -	- -	ug/L	<960 J	<9.6	<9.6	<9.5	<9.5	<9.5	<9.5	<9.5
Acenaphthene	365	400	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Acenaphthylene	2,190	- -	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Acetophenone	0.041609526	1,500	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95 B	<0.95	<0.95	<0.95
Aniline	11.74955738	12	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Anthracene	43.4	1,300	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Aramite	- -	2.7	ug/L	<140 J	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Benzo(a)anthracene	0.091743119	0.029	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Benzo(a)pyrene	0.2	0.0029	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Benzo(b)fluoranthene	0.091743119	0.029	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-28S (032712) 03/27/12 AO-GP-28S	GW-AO-GP-29D (032712) 03/27/12 AO-GP-29D	GW-AO-GP-29S (032712) 03/27/12 AO-GP-29S	GW-AO-GP-30D (032812) 03/28/12 AO-GP-30D	GW-AO-GP-30S (032912) 03/29/12 AO-GP-30S	GW-AO-GP-31 (032812) 03/28/12 AO-GP-31	GW-AO-GP-32 (032912) 03/29/12 AO-GP-32	GW-AO-GP-33 (040312) 04/03/12 AO-GP-33
Benzo(g,h,i)perylene	1,095	- -	ug/L	<19 J	<0.19	<0.19	<0.19	**0.10 J**	<0.19	<0.19	<0.19
Benzo(k)fluoranthene	0.917431193	0.29	ug/L	<19 J	<0.19	<0.19	<0.19	**0.16 J**	<0.19	<0.19	<0.19
Benzyl Alcohol	10,950	1,500	ug/L	<96 J	<0.96	<0.96	<0.95	**0.19 J**	**0.14 J**	<0.95	<0.95
bis(2-Chloroethoxy)methane	- -	47	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
bis(2-Chloroethyl)ether	0.009202473	0.012	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
bis(2-Ethylhexyl)phthalate	6	0.071	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Butylbenzylphthalate	2,690	14	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Chrysene	9.174311927	2.9	ug/L	<19 J	<0.19	<0.19	<0.19	**0.086 J**	**0.073 J**	<0.19	<0.19
Diallate	- -	0.46	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Dibenzo(a,h)anthracene	0.009174312	0.0029	ug/L	<19 J	<0.19	<0.19	<0.19	**0.11 J**	<0.19	<0.19	<0.19
Dibenzofuran	24.33333333	5.8	ug/L	<96 J	<0.96	<0.96	**0.23 J**	<0.95	<0.95	<0.95	<0.95
Diethylphthalate	29,200	11,000	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Dimethoate	- -	3.1	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Dimethylphthalate	365,000	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Di-n-Butylphthalate	3,650	670	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Di-n-Octylphthalate	20	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Dinoseb	7	11	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Diphenyl Ether	- -	- -	ug/L	**4,200 J**	**0.18 J**	<0.96	**250 EJ**	<0.95	**100 EJ**	**0.12 J**	<0.95
Disulfoton	1.46	0.38	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Ethyl Methanesulfonate	- -	- -	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Ethyl Parathion	219	65	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Famphur	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Fluoranthene	1,460	630	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Fluorene	243.3333333	220	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Hexachlorobenzene	1	0.042	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Hexachlorobutadiene	0.858621501	0.26	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Hexachlorocyclopentadiene	50	22	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Hexachloroethane	4.783748362	0.79	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Hexachlorophene	10.95	4.7	ug/L	R	R	R	R	R	R	R	R
Hexachloropropene	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Indeno(1,2,3-cd)pyrene	0.091743119	0.029	ug/L	<19 J	<0.19	<0.19	<0.19	**0.098 J**	<0.19	<0.19	<0.19
Isophorone	70.49734428	67	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Isosafrole	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Methapyrilene	- -	- -	ug/L	<19,000 J	<190	<190	<190	<190	<190	<190	<190
Methyl Methanesulfonate	- -	0.68	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Methyl Parathion	9.125	3.4	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Naphthalene	6.203966006	0.14	ug/L	**12 J**	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Nitrobenzene	3.532258065	0.12	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitrosodiethylamine	0.000446483	0.00014	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitrosodimethylamine	0.001313186	0.00042	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitroso-di-n-butylamine	0.001894431	0.0024	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitroso-di-n-propylamine	0.009567497	0.0093	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitrosodiphenylamine	13.66785246	10	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitrosomethylethylamine	0.003044204	0.003	ug/L	<190 J	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
N-Nitrosomorpholine	- -	0.01	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitrosopiperidine	- -	0.0071	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
N-Nitrosopyrrolidine	0.031891656	0.032	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
o,o,o-Triethylphosphorothioate	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
o-Toluidine	0.279051988	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
p-Dimethylaminoazobenzene	- -	0.0043	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
Pentachlorobenzene	29.2	2.3	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Pentachloronitrobenzene	0.25758645	0.1	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Pentachlorophenol	1	0.17	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
Phenacetin	- -	30	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Phenanthrene	1,095	- -	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Phenol	21,900	4,500	ug/L	<96 J	<0.96	<0.96	**2.6**	**0.56 J**	**1.0**	<0.95	<0.95
Phorate	- -	2.3	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Pronamide	- -	900	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Pyrene	182.5	87	ug/L	<19 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Pyridine	36.5	15	ug/L	<480 J	<4.8	<4.8	<4.7	<4.7	<4.8	<4.7	<4.8
Safrole	- -	0.062	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Sulfotep	- -	5.3	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95
Thionazin	- -	- -	ug/L	<96 J	<0.96	<0.96	<0.95	<0.95	<0.95	<0.95	<0.95

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-28S (032712) 03/27/12 AO-GP-28S	GW-AO-GP-29D (032712) 03/27/12 AO-GP-29D	GW-AO-GP-29S (032712) 03/27/12 AO-GP-29S	GW-AO-GP-30D (032812) 03/28/12 AO-GP-30D	GW-AO-GP-30S (032912) 03/29/12 AO-GP-30S	GW-AO-GP-31 (032812) 03/28/12 AO-GP-31	GW-AO-GP-32 (032912) 03/29/12 AO-GP-32	GW-AO-GP-33 (040312) 04/03/12 AO-GP-33
Organochlorine Pest Method 8081											
4,4'-DDD	0.279051988	0.28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.196977874	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.196977874	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorobenzilate	0.248046211	0.27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.003939557	0.00021	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.010630552	0.0062	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.037206932	0.022	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.00418578	0.0015	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	219	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	219	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	1.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	0.2	0.036	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.4	0.0018	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	0.2	0.0033	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Isodrin	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Kepone	- -	0.003	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Technical Chlordane	2	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	3	0.013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
PCBs Method 8082											
Aroclor-1016	0.956749672	0.96	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	0.033486239	0.0043	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.033486239	0.0043	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.033486239	0.034	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.033486239	0.034	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.033486239	0.034	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.033486239	0.034	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Herbicides Method 8151											
2,4,5-T	365	120	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP	50	84	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	70	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	7	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	0.17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dioxathion/Dioxenethion Method 8310											
cis-Dioxathion	54.75	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dioxenethion	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
trans-Dioxathion	54.75	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins and Furans Method 8290											
1,2,3,4,6,7,8-HpCDD	44.6483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	44.6483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	44.6483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	4.46483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	10.802	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	10.802	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	4.46483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	0.892966	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	8.92966	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	0.892966	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	0.52	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	4.46483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
Octachlorodibenzofuran	446.483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA
Octachlorodibenzo-p-Dioxin	446.483	- -	pg/L	NA	NA	NA	NA	NA	NA	NA	NA

Table A-1. Summary of Temporary Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	GW-AO-GP-28S (032712) 03/27/12 AO-GP-28S	GW-AO-GP-29D (032712) 03/27/12 AO-GP-29D	GW-AO-GP-29S (032712) 03/27/12 AO-GP-29S	GW-AO-GP-30D (032812) 03/28/12 AO-GP-30D	GW-AO-GP-30S (032912) 03/29/12 AO-GP-30S	GW-AO-GP-31 (032812) 03/28/12 AO-GP-31	GW-AO-GP-32 (032912) 03/29/12 AO-GP-32	GW-AO-GP-33 (040312) 04/03/12 AO-GP-33
Total Metals Method 6020											
Antimony	6	6	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	50	0.045	ug/L	**19**	<2.5	**2.1 J**	**2.4 J**	<2.5	**4.0**	<2.5	<2.5
Barium	2,000	2,900	ug/L	**47**	**170**	**170**	**120**	**85**	**120**	**110**	**130**
Beryllium	4	16	ug/L	**1.6**	**0.31 J**	**0.79**	<0.50	**0.15 J**	<0.50	**0.48 J**	**0.24 J**
Cadmium	5	6.9	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	- -	- -	ug/L	**3.1 J**	<5.0	**20**	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	2,190	4.7	ug/L	**22**	**1.4**	**8.1**	**4.2**	**5.5**	**0.52**	**5.6**	**9.7**
Copper	1,300	620	ug/L	**2.9 J**	<5.0	**11**	<5.0	<5.0	<5.0	**1.4 J**	<5.0
Lead	15	- -	ug/L	**4.6 B**	<1.5 B	**12 B**	<1.5 B	<1.5 B	<1.5 B	<1.5 B	<1.5
Nickel	730	300	ug/L	**26**	**2.7 J**	**15**	**5.8**	**12**	**3.0 J**	**4.4 J**	**8.0**
Selenium	50	78	ug/L	<2.5	<2.5	<2.5	<2.5	**2.1 J**	<2.5	<2.5	<2.5
Silver	182.5	71	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium	2	0.16	ug/L	<1.0	**0.29 J**	**0.39 J**	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	21,900	9,300	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	255.5	78	ug/L	**3.6 J**	<10	**21**	<10	<10	<10	<10	<10
Zinc	10,950	4,700	ug/L	**29**	<20	**46**	**8.9 J**	**11 J**	**15 J**	**18 J**	**29**
Total Metals Method 7470											
Mercury	2	0.63	ug/L	<0.20	**0.14 J**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cyanide											
Cyanide	0.2	0.0093	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide											
Sulfide	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

ARCADIS

Appendix A-2

Summary of Monitor Well
Groundwater Analytical Results,
Human Health Comparison Criteria

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ_GW	UNITS	MW-02 07/27/11	MW-03 07/27/11	MW-04 07/27/11	MW-05 07/28/11	MW-06 07/28/11	MW-07 07/28/11	MW-08 07/26/11	MW-09 07/28/11	MW-10 07/27/11	MW-11 07/27/11	MW-12 07/27/11	MW-13 07/26/11	MW-14 07/28/11	MW-15 07/28/11
PEST/PCB-EPA Methods 8081A/8082																		
4,4'-DDD	72-54-8	2.80E-01	2.79E-01	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
4,4'-DDE	72-55-9	2.00E-01	1.97E-01	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
4,4'-DDT	50-29-3	2.00E-01	1.97E-01	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
4-Chlorobenzilate	510-15-6	2.70E-01	2.48E-01	µg/L	<0.5	NA	<0.51	NA	NA	NA	<0.51 [<0.49]	NA	NA	NA	<0.5	<0.51	NA	NA
Aldrin	309-00-2	2.10E-04	3.94E-03	µg/L	<0.05	NA	<0.051	NA	NA	NA	<0.051 [<0.049]	NA	NA	NA	<0.05	<0.051	NA	NA
Alpha-BHC	319-84-6	6.20E-03	1.06E-02	µg/L	<0.05	NA	<0.051	NA	NA	NA	**0.61 [0.75]**	NA	NA	NA	<0.05	**0.25**	NA	NA
Aroclor-1016	12674-11-2	9.60E-01	9.57E-01	µg/L	<0.99	NA	<1	NA	NA	NA	<1 [<0.98]	NA	NA	NA	<0.99	<1	NA	NA
Aroclor-1221	11104-28-2	4.30E-03	3.35E-02	µg/L	<2	NA	<2	NA	NA	NA	<2 [<2]	NA	NA	NA	<2	<2	NA	NA
Aroclor-1232	11141-16-5	4.30E-03	3.35E-02	µg/L	<0.99	NA	<1	NA	NA	NA	<1 [<0.98]	NA	NA	NA	<0.99	<1	NA	NA
Aroclor-1242	53469-21-9	3.40E-02	3.35E-02	µg/L	<0.99	NA	<1	NA	NA	NA	<1 [<0.98]	NA	NA	NA	<0.99	<1	NA	NA
Aroclor-1248	12672-29-6	3.40E-02	3.35E-02	µg/L	<0.99	NA	<1	NA	NA	NA	<1 [<0.98]	NA	NA	NA	<0.99	<1	NA	NA
Aroclor-1254	11097-69-1	3.40E-02	3.35E-02	µg/L	<0.99	NA	<1	NA	NA	NA	<1 [<0.98]	NA	NA	NA	<0.99	<1	NA	NA
Aroclor-1260	11096-82-5	3.40E-02	3.35E-02	µg/L	<0.99	NA	<1	NA	NA	NA	<1 [<0.98]	NA	NA	NA	<0.99	<1	NA	NA
Beta-BHC	319-85-7	2.20E-02	3.72E-02	µg/L	<0.05	NA	<0.051	NA	NA	NA	<0.051 [<0.049]	NA	NA	NA	<0.05	<0.051	NA	NA
Delta-BHC	319-86-8	- -	- -	µg/L	<0.05	NA	<0.051	NA	NA	NA	<0.051 [<0.049]	NA	NA	NA	<0.05	<0.051	NA	NA
Dieldrin	60-57-1	1.50E-03	4.19E-03	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
Endosulfan I	959-98-8	- -	- -	µg/L	<0.05	NA	<0.051	NA	NA	NA	<0.051 [<0.049]	NA	NA	NA	<0.05	<0.051	NA	NA
Endosulfan II	33213-65-9	- -	- -	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
Endosulfan Sulfate	1031-07-8	- -	- -	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
Endrin	72-20-8	1.70E+00	2.00E+00	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
Endrin Aldehyde	7421-93-4	- -	- -	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
Endrin Ketone	53494-70-5	- -	- -	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
Gamma-BHC (Lindane)	58-89-9	3.60E-02	2.00E-01	µg/L	<0.05	NA	<0.051	NA	NA	NA	**0.3 [0.45]**	NA	NA	NA	<0.05	<0.051	NA	NA
Heptachlor	76-44-8	1.80E-03	4.00E-01	µg/L	<0.05	NA	<0.051	NA	NA	NA	<0.051 [<0.049]	NA	NA	NA	<0.05	<0.051	NA	NA
Heptachlor Epoxide	1024-57-3	3.30E-03	2.00E-01	µg/L	<0.05	NA	<0.051	NA	NA	NA	<0.051 [<0.049]	NA	NA	NA	<0.05	<0.051	NA	NA
Isodrin	465-73-6	- -	- -	µg/L	<0.05	NA	<0.051	NA	NA	NA	<0.051 [<0.049]	NA	NA	NA	<0.05	<0.051	NA	NA
Kepone	143-50-0	3.00E-03	- -	µg/L	<0.99 *	NA	<1 *	NA	NA	NA	<1 [<0.98]	NA	NA	NA	<0.99 *	<1	NA	NA
Methoxychlor	72-43-5	2.70E+01	4.00E+01	µg/L	<0.099	NA	<0.1	NA	NA	NA	<0.1 [<0.098]	NA	NA	NA	<0.099	<0.1	NA	NA
Technical Chlordane	57-74-9	- -	2.00E+00	µg/L	<0.5	NA	<0.51	NA	NA	NA	<0.51 [<0.49]	NA	NA	NA	<0.5	<0.51	NA	NA
Toxaphene	8001-35-2	1.30E-02	3.00E+00	µg/L	<5	NA	<5.1	NA	NA	NA	<5.1 [<4.9]	NA	NA	NA	<5	<5.1	NA	NA
Herb-EPA Method 8151A																		
2,4,5-T	93-76-5	1.20E+02	3.65E+02	µg/L	<0.51	NA	<0.51	NA	NA	NA	<0.51 [<0.5]	NA	NA	NA	<0.51	<0.5	NA	NA
2,4,5-TP	93-72-1	8.40E+01	5.00E+01	µg/L	<0.51	NA	<0.51	NA	NA	NA	<0.51 [<0.5]	NA	NA	NA	<0.51	<0.5	NA	NA
2,4-D	94-75-7	1.30E+02	7.00E+01	µg/L	<0.51	NA	<0.51	NA	NA	NA	<0.51 [<0.5]	NA	NA	NA	<0.51	<0.5	NA	NA
Volatile Organics Compouds-EPA Method 8260B																		
1,1,1,2-Tetrachloroethane	630-20-6	5.00E-01	4.06E-01	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,1,1-Trichloroethane	71-55-6	7.50E+03	2.00E+02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,1,2,2-Tetrachloroethane	79-34-5	6.60E-02	5.27E-02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,1,2-Trichloroethane	79-00-5	2.40E-01	5.00E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,1-Dichloroethane	75-34-3	2.40E+00	7.98E+02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,1-Dichloroethene	75-35-4	2.60E+02	7.00E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,2,3-Trichloropropane	96-18-4	6.50E-04	6.23E-03	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,2-Dibromo-3-chloropropane	96-12-8	3.20E-04	2.00E-01	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,2-Dibromoethane	106-93-4	6.50E-03	5.00E-02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,2-Dichloroethane	107-06-2	1.50E-01	5.00E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
1,2-Dichloropropane	78-87-5	3.80E-01	5.00E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
2-Butanone	78-93-3	4.90E+03	1.91E+03	µg/L	<10	<10	<10	<10	<10	<10	<500 [<500]	<10 [<10]	<10	<10 [<10]	<10	<100	<10	<10
2-Chloro-1,3-butadiene	126-99-8	1.60E-02	1.43E+01	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
2-Hexanone	591-78-6	3.40E+01	1.46E+03	µg/L	<10	<10	<10	<10	<10	<10	<500 [<500]	<10 [<10]	<10	<10 [<10]	<10	<100	<10	<10
3-Chloropropene	107-05-1	6.30E-01	- -	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
4-Methyl-2-pentanone	108-10-1	1.00E+03	1.39E+02	µg/L	<10	<10	<10	<10	<10	<10	<500 [<500]	<10 [<10]	<10	<10 [<10]	<10	<100	<10	<10
Acetone	67-64-1	1.20E+04	6.08E+02	µg/L	<25	<25	<25	<25	<25	<25	<1,300 [<1,300]	<25 [<25]	<25	<25 [<25]	<25	<250	<25	<25
Acetonitrile	75-05-8	1.30E+02	1.25E+02	µg/L	<40	<40	<40	<40	<40	<40	<2,000 [<2,000]	<40 [<40]	<40	<40 [<40]	<40	<400	<40	<40
Acrolein	107-02-8	4.10E-02	4.16E-02	µg/L	<20	<20	<20	<20	<20	<20	<1,000 [<1,000]	<20 [<20]	<20	<20 [<20]	<20	<200	<20	<20
Acrylonitrile	107-13-1	4.50E-02	3.67E-02	µg/L	<20	<20	<20	<20	<20	<20	<1,000 [<1,000]	<20 [<20]	<20	<20 [<20]	<20	<200	<20	<20
Benzene	71-43-2	3.90E-01	5.00E+00	µg/L	<1	<1	<1	<1	<1	<1	**4,600 [5,100]**	<1 [<1]	<1	<1 [<1]	<1	**390**	<1	<1
Bromodichloromethane	75-27-4	1.20E-01	1.68E-01	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Bromoform	75-25-2	7.90E+00	8.48E+00	µg/L	<1	<1	<1 *	<1 *	<1 *	<1 *	<50 [<50]	<1 * [<1 *]	<1	<1 * [<1]	<1	<10	<1 *	<1 *
Bromomethane	74-83-9	7.00E+00	8.52E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Carbon Disulfide	75-15-0	7.20E+02	1.04E+03	µg/L	<2	<2	<2	<2	<2	<2	<100 [<100]	<2 [<2]	<2	<2 [<2]	<2	<20	<2	<2
Carbon Tetrachloride	56-23-5	3.90E-01	5.00E+00	µg/L	<1	<1	<1	<1 *	<1	<1	**2,600 [2,700 *]**	<1 [<1]	<1	<1 * [<1]	<1	**620**	<1 *	<1
Chlorobenzene	108-90-7	7.20E+01	1.00E+02	µg/L	<1	<1	<1	<1	<1	<1	**220 [240]**	<1 [<1]	<1	<1 [<1]	<1	24	<1	<1
Chloroethane	75-00-3	2.10E+04	3.64E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Chloroform	67-66-3	1.90E-01	1.55E-01	µg/L	<1	<1	<1	<1	<1	<1	**640 [640]**	<1 [<1]	<1	<1 [<1]	<1	**210**	<1	<1
Chloromethane	74-87-3	1.90E+02	1.43E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ_GW	UNITS	MW-02 07/27/11	MW-03 07/27/11	MW-04 07/27/11	MW-05 07/28/11	MW-06 07/28/11	MW-07 07/28/11	MW-08 07/26/11	MW-09 07/28/11	MW-10 07/27/11	MW-11 07/27/11	MW-12 07/27/11	MW-13 07/26/11	MW-14 07/28/11	MW-15 07/28/11
cis-1,2-Dichloroethene	156-59-2	2.80E+01	7.00E+01	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
cis-1,3-Dichloropropene	10061-01-5	- -	- -	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Dibromochloromethane	124-48-1	1.50E-01	1.26E-01	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Dibromomethane	74-95-3	7.90E+00	6.08E+01	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Dichlorodifluoromethane	75-71-8	1.90E+02	3.48E+02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Ethyl Methacrylate	97-63-2	4.20E+02	5.48E+02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Ethylbenzene	100-41-4	1.30E+00	7.00E+02	µg/L	<1	<1	<1	<1	<1	<1	**55 [61]**	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Iodomethane	74-88-4	- -	- -	µg/L	<5	<5	<5	<5	<5	<5	<250 [<250]	<5 [<5]	<5	<5 [<5]	<5	<50	<5	<5
Isobutanol	78-83-1	4.60E+03	1.83E+03	µg/L	<40	<40	<40	<40	<40	<40	<2,000 [<2,000]	<40 [<40]	<40	<40 [<40]	<40	<400	<40	<40
Methacrylonitrile	126-98-7	7.50E-01	1.04E+00	µg/L	<20	<20	<20	<20	<20	<20	<1,000 [<1,000]	<20 [<20]	<20	<20 [<20]	<20	<200	<20	<20
Methyl Methacrylate	80-62-6	1.40E+03	1.42E+03	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Methylene Chloride	75-09-2	9.90E+00	5.00E+00	µg/L	<5	<5	<5	<5	<5	<5	**340 [350]**	<5 [<5]	<5	<5 [<5]	<5	<50	<5	<5
Pentachloroethane	76-01-7	5.60E-01	- -	µg/L	<5	<5	<5	<5	<5	<5	<250 [<250]	<5 [<5]	<5	<5 [<5]	<5	<50	<5	<5
Propionitrile	107-12-0	- -	- -	µg/L	<20	<20	<20	<20	<20	<20	<1,000 [<1,000]	<20 [<20]	<20	<20 [<20]	<20	<200	<20	<20
Styrene	100-42-5	1.10E+03	1.00E+02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Tetrachloroethene	127-18-4	9.70E+00	5.00E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Toluene	108-88-3	8.60E+02	1.00E+03	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
trans-1,2-Dichloroethene	156-60-5	8.60E+01	1.00E+02	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
trans-1,3-Dichloropropene	10061-02-6	- -	- -	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
trans-1,4-Dichloro-2-butene	110-57-6	1.20E-03	- -	µg/L	<2	<2	<2	<2	<2	<2	<100 [<100]	<2 [<2]	<2	<2 [<2]	<2	<20	<2	<2
Trichloroethene	79-01-6	4.40E-01	5.00E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Trichlorofluoromethane	75-69-4	1.10E+03	1.29E+03	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Vinyl Acetate	108-05-4	4.10E+02	4.12E+02	µg/L	<2	<2	<2	<2	<2	<2	<100 [<100]	<2 [<2]	<2	<2 [<2]	<2	<20	<2	<2
Vinyl Chloride	75-01-4	1.50E-02	2.00E+00	µg/L	<1	<1	<1	<1	<1	<1	<50 [<50]	<1 [<1]	<1	<1 [<1]	<1	<10	<1	<1
Xylenes (total)	1330-20-7	1.90E+02	1.00E+04	µg/L	<2	<2	<2	<2	<2	<2	<100 [<100]	<2 [<2]	<2	<2 [<2]	<2	<20	<2	<2
Semivolatile Organics Compounds-EPA Method 8270C																		
1,1'-Biphenyl	92-52-4	8.30E-01	3.04E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,2,4,5-Tetrachlorobenzene	95-94-3	1.20E+00	1.10E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,2,4-Trichlorobenzene	120-82-1	9.90E-01	7.00E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,2-Dichlorobenzene	95-50-1	2.80E+02	6.00E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,3,5-Trinitrobenzene	99-35-4	4.60E+02	1.10E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,3-Dichlorobenzene	541-73-1	- -	5.48E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,3-Dinitrobenzene	99-65-0	1.50E+00	3.65E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,4-Dichlorobenzene	106-46-7	4.20E-01	7.50E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1,4-Dioxane	123-91-1	6.70E-01	6.09E+00	µg/L	<9.9	NA	**23**	NA	NA	NA	**13,000 [9,400]**	NA	NA	NA	<12	**470**	NA	NA
1,4-Naphthoquinone	130-15-4	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
1-Naphthylamine	134-32-7	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,2'-Oxybis(1-Chloropropane)	108-60-1	3.10E-01	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,3,4,6-Tetrachlorophenol	58-90-2	1.70E+02	1.10E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,4,5-Trichlorophenol	95-95-4	8.90E+02	3.65E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,4,6-Trichlorophenol	88-06-2	3.50E+00	6.09E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,4-Dichlorophenol	120-83-2	3.50E+01	1.10E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,4-Dimethylphenol	105-67-9	2.70E+02	7.30E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,4-Dinitrophenol	51-28-5	3.00E+01	7.30E+01	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
2,4-Dinitrotoluene	121-14-2	2.00E-01	7.30E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,6-Dichlorophenol	87-65-0	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2,6-Dinitrotoluene	606-20-2	1.50E+01	3.65E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Acetylaminofluorene	53-96-3	1.40E-02	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Chloronaphthalene	91-58-7	5.50E+02	4.87E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Chlorophenol	95-57-8	7.10E+01	3.04E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Methylnaphthalene	91-57-6	2.70E+01	1.22E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Methylphenol	95-48-7	7.20E+02	1.83E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Naphthylamine	91-59-8	3.30E-02	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Nitroaniline	88-74-4	1.50E+02	4.17E-01	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
2-Nitrophenol	88-75-5	- -	4.16E-01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
2-Picoline	109-06-8	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
3 & 4 Methylphenol	15831-10-4	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
3,3'-Dichlorobenzidine	91-94-1	1.10E-01	1.49E-01	µg/L	<59	NA	<63	NA	NA	NA	<6,200 [<3,000]	NA	NA	NA	<75	<290	NA	NA
3,3'-Dimethylbenzidine	119-93-7	5.60E-03	7.28E-03	µg/L	<20	NA	<21	NA	NA	NA	<2,100 [<1,000]	NA	NA	NA	<25	<98	NA	NA
3-Methylcholanthrene	56-49-5	9.80E-04	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
3-Nitroaniline	99-09-2	- -	- -	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	1.20E+00	3.65E+00	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
4-Aminobiphenyl	92-67-1	2.60E-03	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
4-Bromophenyl-phenylether	101-55-3	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
4-Chloro-3-Methylphenol	59-50-7	1.10E+03	7.30E+04	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
4-Chloroaniline	106-47-8	3.20E-01	1.46E+02	µg/L	<20	NA	<21	NA	NA	NA	<2,100 [<1,000]	NA	NA	NA	<25	<98	NA	NA

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ_GW	UNITS	MW-02 07/27/11	MW-03 07/27/11	MW-04 07/27/11	MW-05 07/28/11	MW-06 07/28/11	MW-07 07/28/11	MW-08 07/26/11	MW-09 07/28/11	MW-10 07/27/11	MW-11 07/27/11	MW-12 07/27/11	MW-13 07/26/11	MW-14 07/28/11	MW-15 07/28/11
4-Chlorophenyl-phenylether	7005-72-3	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
4-Nitroaniline	100-01-6	3.30E+00	- -	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
4-Nitrophenol	100-02-7	- -	2.92E+02	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
4-Nitroquinoline-1-oxide	56-57-5	- -	- -	µg/L	<20	NA	<21	NA	NA	NA	<2,100 [<1,000]	NA	NA	NA	<25	<98	NA	NA
4-Phenylenediamine	106-50-3	3.00E+03	6.94E+03	µg/L	<2,000	NA	<2,100	NA	NA	NA	210,000 [<100,000	NA	NA	NA	<2,500	<9,800	NA	NA
5-Nitro-o-toluidine	99-55-8	7.00E+00	2.03E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
7,12-Dimethylbenz(a)anthracene	57-97-6	8.60E-05	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
a,a'-Dimethylphenethylamine	122-09-8	- -	- -	µg/L	<2,000	NA	<2,100	NA	NA	NA	210,000 [<100,000	NA	NA	NA	<2,500	<9,800	NA	NA
Acenaphthene	83-32-9	4.00E+02	3.65E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Acenaphthylene	208-96-8	- -	2.19E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Acetophenone	98-86-2	1.50E+03	4.16E-02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Aniline	62-53-3	1.20E+01	1.17E+01	µg/L	<20	NA	<21	NA	NA	NA	<2,100 [<1,000]	NA	NA	NA	<25	<98	NA	NA
Anthracene	120-12-7	1.30E+03	4.34E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Aramite	140-57-8	2.70E+00	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Benzo(a)anthracene	56-55-3	2.90E-02	9.17E-02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Benzo(a)pyrene	50-32-8	2.90E-03	2.00E-01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Benzo(b)fluoranthene	205-99-2	2.90E-02	9.17E-02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Benzo(g,h,i)perylene	191-24-2	- -	1.10E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Benzo(k)fluoranthene	207-08-9	2.90E-01	9.17E-01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Benzyl Alcohol	100-51-6	1.50E+03	1.10E+04	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
bis(2-Chloroethoxy)methane	111-91-1	4.70E+01	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
bis(2-Chloroethyl)ether	111-44-4	1.20E-02	9.20E-03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	7.10E-02	6.00E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Butylbenzylphthalate	85-68-7	1.40E+01	2.69E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Chrysene	218-01-9	2.90E+00	9.17E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Diallate	2303-16-4	4.60E-01	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Dibenzo(a,h)anthracene	53-70-3	2.90E-03	9.17E-03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Dibenzofuran	132-64-9	5.80E+00	2.43E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Diethylphthalate	84-66-2	1.10E+04	2.92E+04	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Dimethoate	60-51-5	3.10E+00	- -	µg/L	<9.9 *	NA	<10 *	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12 *	<49	NA	NA
Dimethylphthalate	131-11-3	- -	3.65E+05	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Di-n-Butylphthalate	84-74-2	6.70E+02	3.65E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Di-n-Octylphthalate	117-84-0	- -	2.00E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Dinoseb	88-85-7	1.10E+01	7.00E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Disulfoton	298-04-4	3.80E-01	1.46E+00	µg/L	<9.9 *	NA	<10 *	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12 *	<49	NA	NA
Ethyl Methanesulfonate	62-50-0	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Ethyl Parathion	56-38-2	6.50E+01	2.19E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Famphur	52-85-7	- -	- -	µg/L	<9.9 *	NA	<10 *	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12 *	<49	NA	NA
Fluoranthene	206-44-0	6.30E+02	1.46E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Fluorene	86-73-7	2.20E+02	2.43E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Hexachlorobenzene	118-74-1	4.20E-02	1.00E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Hexachlorobutadiene	87-68-3	2.60E-01	8.59E-01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Hexachlorocyclopentadiene	77-47-4	2.20E+01	5.00E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Hexachloroethane	67-72-1	7.90E-01	4.78E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Hexachlorophene	70-30-4	4.70E+00	1.10E+01	µg/L	<4,900	NA	<5,200	NA	NA	NA	520,000 [<250,000	NA	NA	NA	<6,200	<25,000	NA	NA
Hexachloropropene	1888-71-7	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	2.90E-02	9.17E-02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Isophorone	78-59-1	6.70E+01	7.05E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Isosafrole	120-58-1	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Methapyrilene	91-80-5	- -	- -	µg/L	<2,000	NA	<2,100	NA	NA	NA	210,000 [<100,000	NA	NA	NA	<2,500	<9,800	NA	NA
Methyl Methanesulfonate	66-27-3	6.80E-01	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Methyl Parathion	298-00-0	3.40E+00	9.13E+00	µg/L	<9.9 *	NA	<10 *	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12 *	<49	NA	NA
Naphthalene	91-20-3	1.40E-01	6.20E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Nitrobenzene	98-95-3	1.20E-01	3.53E+00	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitrosodiethylamine	55-18-5	1.40E-04	4.46E-04	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitrosodimethylamine	62-75-9	4.20E-04	1.31E-03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitroso-di-n-butylamine	924-16-3	2.40E-03	1.89E-03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitroso-di-n-propylamine	621-64-7	9.30E-03	9.57E-03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitrosodiphenylamine	86-30-6	1.00E+01	1.37E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitrosomethylethylamine	10595-95-6	3.00E-03	3.04E-03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitrosomorpholine	59-89-2	1.00E-02	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitrosopiperidine	100-75-4	7.10E-03	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
N-Nitrosopyrrolidine	930-55-2	3.20E-02	3.19E-02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
o,o,o-Triethylphosphorothioate	126-68-1	- -	- -	µg/L	<9.9	NA	22	NA	NA	NA	3,400 [3,300]	NA	NA	NA	<12	190	NA	NA
o-Toluidine	95-53-4	- -	2.79E-01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
p-Dimethylaminoazobenzene	60-11-7	4.30E-03	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ_GW	UNITS	MW-02 07/27/11	MW-03 07/27/11	MW-04 07/27/11	MW-05 07/28/11	MW-06 07/28/11	MW-07 07/28/11	MW-08 07/26/11	MW-09 07/28/11	MW-10 07/27/11	MW-11 07/27/11	MW-12 07/27/11	MW-13 07/26/11	MW-14 07/28/11	MW-15 07/28/11
Pentachlorobenzene	608-93-5	2.30E+00	2.92E+01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Pentachloronitrobenzene	82-68-8	1.00E-01	2.58E-01	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Pentachlorophenol	87-86-5	1.70E-01	1.00E+00	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
Phenacetin	62-44-2	3.00E+01	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Phenanthrene	85-01-8	- -	1.10E+03	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Phenol	108-95-2	4.50E+03	2.19E+04	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Phorate	298-02-2	2.30E+00	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Pronamide	23950-58-5	9.00E+02	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Pyrene	129-00-0	8.70E+01	1.83E+02	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Pyridine	110-86-1	1.50E+01	3.65E+01	µg/L	<49	NA	<52	NA	NA	NA	<5,200 [<2,500]	NA	NA	NA	<62	<250	NA	NA
Safrole	94-59-7	6.20E-02	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Sulfotep	3689-24-5	5.30E+00	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Thionazin	297-97-2	- -	- -	µg/L	<9.9	NA	<10	NA	NA	NA	<1,000 [<510]	NA	NA	NA	<12	<49	NA	NA
Dioxins-EPA Method 8290																		
2,3,7,8-TCDD	1746-01-6	5.20E-07	3.00E+01	pg/L	<10	NA	<10	NA	NA	NA	<11 [<10]	NA	NA	NA	<9.8	<10	NA	NA
Total TEQ	- -	- -	- -	pg/L	0.00	NA	0.00	NA	NA	NA	0.00	NA	NA	NA	0.00	0.00	NA	NA
Inorganics-EPA Method 6020																		
Antimony	7440-36-0	6.00E+00	6.00E+00	µg/L	<5	NA	<5	NA	NA	NA	<5 [<5]	NA	NA	NA	<5	<5	NA	NA
Arsenic	7440-38-2	4.50E-02	5.00E+01	µg/L	**2.9**	NA	<2.5	NA	NA	NA	**42 [44]**	NA	NA	NA	<2.5	**5.7**	NA	NA
Barium	7440-39-3	2.90E+03	2.00E+03	µg/L	76	NA	110	NA	NA	NA	260 [260]	NA	NA	NA	120	49	NA	NA
Beryllium	7440-41-7	1.60E+01	4.00E+00	µg/L	<0.5	NA	<0.5	NA	NA	NA	<0.5 [<0.5]	NA	NA	NA	<0.5	<0.5	NA	NA
Cadmium	7440-43-9	- -	5.00E+00	µg/L	<0.5	NA	<0.5	NA	NA	NA	<0.5 [<0.5]	NA	NA	NA	<0.5	<0.5	NA	NA
Chromium	7440-47-3	- -	- -	µg/L	<5	NA	<5	NA	NA	NA	<5 [<5]	NA	NA	NA	<5	<5	NA	NA
Cobalt	7440-48-4	4.70E+00	2.19E+03	µg/L	4.2	NA	<0.5	NA	NA	NA	<0.5 [<0.5]	NA	NA	NA	3.4	1.5	NA	NA
Copper	7440-50-8	6.20E+02	1.30E+03	µg/L	<5	NA	<5	NA	NA	NA	<5 [<5]	NA	NA	NA	<5	<5	NA	NA
Lead	7439-92-1	- -	1.50E+01	µg/L	<1.5	NA	<1.5	NA	NA	NA	<1.5 [<1.5]	NA	NA	NA	<1.5	<1.5	NA	NA
Nickel	7440-02-0	3.00E+02	7.30E+02	µg/L	<5	NA	<5	NA	NA	NA	<5 [<5]	NA	NA	NA	9.7	<5	NA	NA
Selenium	7782-49-2	7.80E+01	5.00E+01	µg/L	<2.5	NA	<2.5	NA	NA	NA	<2.5 [<2.5]	NA	NA	NA	<2.5	<2.5	NA	NA
Silver	7440-22-4	7.10E+01	1.83E+02	µg/L	<1	NA	<1	NA	NA	NA	<1 [<1]	NA	NA	NA	<1	<1	NA	NA
Thallium	7440-28-0	1.60E-01	2.00E+00	µg/L	<1	NA	<1	NA	NA	NA	<1 [<1]	NA	NA	NA	<1	<1	NA	NA
Tin	7440-31-5	9.30E+03	2.19E+04	µg/L	<5	NA	<5	NA	NA	NA	<5 [<5]	NA	NA	NA	<5	<5	NA	NA
Vanadium	7440-62-2	- -	2.56E+02	µg/L	<10	NA	<10	NA	NA	NA	<10 [<10]	NA	NA	NA	<10	<10	NA	NA
Zinc	7440-66-6	4.70E+03	1.10E+04	µg/L	<20	NA	<20	NA	NA	NA	<20 [<20]	NA	NA	NA	34	41	NA	NA
Inorganics-EPA Method 7470A																		
Mercury	7439-97-6	6.30E-01	2.00E+00	µg/L	<0.2	NA	<0.2	NA	NA	NA	<0.2 [<0.2]	NA	NA	NA	<0.2	<0.2	NA	NA
Miscellaneous-Method 9034																		
Sulfide	18496-25-8	- -	- -	mg/L	<1	NA	1.1	NA	NA	NA	5 [17]	NA	NA	NA	<1	<1	NA	NA
Miscellaneous- Method 9012A																		
Cyanide	57-12-5	9.30E+00	2.00E-01	mg/L	<0.01	NA	<0.01	NA	NA	NA	<0.01 [<0.01]	NA	NA	NA	<0.01	<0.01	NA	NA

Notes:

Boldface type	Compound detected.
*	Laboratory duplicate analysis was outside control limits.
<	Less than.
- -	Standard not promulgated.
	Shaded cells indicate that the reported result exceeds the EPA RSL or MDEQ_GW.
EPA	U.S. Environmental Protection Agency.
MDEQ	Mississippi Department of Environmentl Quality.
MDEQ_GW	MDEQ Tier 1 Target Remediation Goal.
mg/L	Milligrams per liter.
µg/L	Micrograms per liter.
NA	Not analyzed.
RSL	Regional Screening Level.
TEQ	Toxic equivalent.

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ_GW	UNITS	MW-16 07/28/11	MW-17 07/26/11	MW-18 07/27/11	MW-19 07/26/11	MW-20 07/27/11	MW-21 07/26/11	MW-22 07/27/11	MW-23 07/26/11	MW-24 07/27/11
PEST/PCB-EPA Methods 8081A/8082													
4,4'-DDD	72-54-8	2.80E-01	2.79E-01	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
4,4'-DDE	72-55-9	2.00E-01	1.97E-01	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
4,4'-DDT	50-29-3	2.00E-01	1.97E-01	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
4-Chlorobenzilate	510-15-6	2.70E-01	2.48E-01	µg/L	NA	<4.9	NA	<0.49	NA	NA	NA	<0.49	NA
Aldrin	309-00-2	2.10E-04	3.94E-03	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Alpha-BHC	319-84-6	6.20E-03	1.06E-02	µg/L	NA	**1.5 p**	NA	<0.049	NA	NA	NA	<0.049	NA
Aroclor-1016	12674-11-2	9.60E-01	9.57E-01	µg/L	NA	<9.9	NA	<0.99	NA	NA	NA	<0.99	NA
Aroclor-1221	11104-28-2	4.30E-03	3.35E-02	µg/L	NA	<20	NA	<2	NA	NA	NA	<2	NA
Aroclor-1232	11141-16-5	4.30E-03	3.35E-02	µg/L	NA	<9.9	NA	<0.99	NA	NA	NA	<0.99	NA
Aroclor-1242	53469-21-9	3.40E-02	3.35E-02	µg/L	NA	<9.9	NA	<0.99	NA	NA	NA	<0.99	NA
Aroclor-1248	12672-29-6	3.40E-02	3.35E-02	µg/L	NA	<9.9	NA	<0.99	NA	NA	NA	<0.99	NA
Aroclor-1254	11097-69-1	3.40E-02	3.35E-02	µg/L	NA	<9.9	NA	<0.99	NA	NA	NA	<0.99	NA
Aroclor-1260	11096-82-5	3.40E-02	3.35E-02	µg/L	NA	<9.9	NA	<0.99	NA	NA	NA	<0.99	NA
Beta-BHC	319-85-7	2.20E-02	3.72E-02	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Delta-BHC	319-86-8	- -	- -	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Dieldrin	60-57-1	1.50E-03	4.19E-03	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
Endosulfan I	959-98-8	- -	- -	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Endosulfan II	33213-65-9	- -	- -	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
Endosulfan Sulfate	1031-07-8	- -	- -	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
Endrin	72-20-8	1.70E+00	2.00E+00	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
Endrin Aldehyde	7421-93-4	- -	- -	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
Endrin Ketone	53494-70-5	- -	- -	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
Gamma-BHC (Lindane)	58-89-9	3.60E-02	2.00E-01	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Heptachlor	76-44-8	1.80E-03	4.00E-01	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Heptachlor Epoxide	1024-57-3	3.30E-03	2.00E-01	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Isodrin	465-73-6	- -	- -	µg/L	NA	<0.49	NA	<0.049	NA	NA	NA	<0.049	NA
Kepone	143-50-0	3.00E-03	- -	µg/L	NA	<9.9	NA	<0.99	NA	NA	NA	<0.99	NA
Methoxychlor	72-43-5	2.70E+01	4.00E+01	µg/L	NA	<0.99	NA	<0.099	NA	NA	NA	<0.099	NA
Technical Chlordane	57-74-9	- -	2.00E+00	µg/L	NA	<4.9	NA	<0.49	NA	NA	NA	<0.49	NA
Toxaphene	8001-35-2	1.30E-02	3.00E+00	µg/L	NA	<49	NA	<4.9	NA	NA	NA	<4.9	NA
Herb-EPA Method 8151A													
2,4,5-T	93-76-5	1.20E+02	3.65E+02	µg/L	NA	<0.51	NA	<0.5	NA	NA	NA	<0.5	NA
2,4,5-TP	93-72-1	8.40E+01	5.00E+01	µg/L	NA	<0.51	NA	<0.5	NA	NA	NA	<0.5	NA
2,4-D	94-75-7	1.30E+02	7.00E+01	µg/L	NA	<0.51	NA	<0.5	NA	NA	NA	10 D	NA
Volatile Organics Compouds-EPA Method 8260B													
1,1,1,2-Tetrachloroethane	630-20-6	5.00E-01	4.06E-01	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,1,1-Trichloroethane	71-55-6	7.50E+03	2.00E+02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,1,2,2-Tetrachloroethane	79-34-5	6.60E-02	5.27E-02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,1,2-Trichloroethane	79-00-5	2.40E-01	5.00E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,1-Dichloroethane	75-34-3	2.40E+00	7.98E+02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,1-Dichloroethene	75-35-4	2.60E+02	7.00E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,2,3-Trichloropropane	96-18-4	6.50E-04	6.23E-03	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,2-Dibromo-3-chloropropane	96-12-8	3.20E-04	2.00E-01	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,2-Dibromoethane	106-93-4	6.50E-03	5.00E-02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,2-Dichloroethane	107-06-2	1.50E-01	5.00E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
1,2-Dichloropropane	78-87-5	3.80E-01	5.00E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
2-Butanone	78-93-3	4.90E+03	1.91E+03	µg/L	<10	<2,000	<10	<10	<10	<500	<10	<1,000	<10
2-Chloro-1,3-butadiene	126-99-8	1.60E-02	1.43E+01	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
2-Hexanone	591-78-6	3.40E+01	1.46E+03	µg/L	<10	<2,000	<10	<10	<10	<500	<10	<1,000	<10
3-Chloropropene	107-05-1	6.30E-01	- -	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
4-Methyl-2-pentanone	108-10-1	1.00E+03	1.39E+02	µg/L	<10	<2,000	<10	<10	<10	<500	21	**1,100**	<10
Acetone	67-64-1	1.20E+04	6.08E+02	µg/L	<25	<5,000	<25	<25	<25	<1,300	<25	<2,500	<25
Acetonitrile	75-05-8	1.30E+02	1.25E+02	µg/L	<40	<8,000	<40	<40	<40	<2,000	<40	<4,000	<40
Acrolein	107-02-8	4.10E-02	4.16E-02	µg/L	<20	<4,000	<20	<20	<20	<1,000	<20	<2,000	<20
Acrylonitrile	107-13-1	4.50E-02	3.67E-02	µg/L	<20	<4,000	<20	<20	<20	<1,000	<20	<2,000	<20
Benzene	71-43-2	3.90E-01	5.00E+00	µg/L	<1	**3,600**	<1	**54**	<1	**3,200**	**10**	**8,800**	<1
Bromodichloromethane	75-27-4	1.20E-01	1.68E-01	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Bromoform	75-25-2	7.90E+00	8.48E+00	µg/L	<1 *	<200	<1	<1	<1	<50	<1 *	<100	<1
Bromomethane	74-83-9	7.00E+00	8.52E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Carbon Disulfide	75-15-0	7.20E+02	1.04E+03	µg/L	<2	<400	<2	<2	<2	<100	<2	390	<2
Carbon Tetrachloride	56-23-5	3.90E-01	5.00E+00	µg/L	<1 *	**25,000 ***	<1	**3.5**	<1	<50	<1 *	<100	<1
Chlorobenzene	108-90-7	7.20E+01	1.00E+02	µg/L	<1	**770**	21	9.9	<1	**150**	8.7	**140**	<1
Chloroethane	75-00-3	2.10E+04	3.64E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Chloroform	67-66-3	1.90E-01	1.55E-01	µg/L	<1	**3,000**	<1	**3.3**	<1	**4,300**	<1	**3,200**	<1
Chloromethane	74-87-3	1.90E+02	1.43E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ GW	UNITS	MW-16 07/28/11	MW-17 07/26/11	MW-18 07/27/11	MW-19 07/26/11	MW-20 07/27/11	MW-21 07/26/11	MW-22 07/27/11	MW-23 07/26/11	MW-24 07/27/11
cis-1,2-Dichloroethene	156-59-2	2.80E+01	7.00E+01	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
cis-1,3-Dichloropropene	10061-01-5	- -	- -	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Dibromochloromethane	124-48-1	1.50E-01	1.26E-01	µg/L	<1	<200	<1	<1	<1	<50	<1 *	<100	<1
Dibromomethane	74-95-3	7.90E+00	6.08E+01	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Dichlorodifluoromethane	75-71-8	1.90E+02	3.48E+02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Ethyl Methacrylate	97-63-2	4.20E+02	5.48E+02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Ethylbenzene	100-41-4	1.30E+00	7.00E+02	µg/L	<1	<200	<1	1.3	<1	<50	<1	<100	<1
Iodomethane	74-88-4	- -	- -	µg/L	<5	<1,000	<5	<5	<5	<250	<5	<500	<5
Isobutanol	78-83-1	4.60E+03	1.83E+03	µg/L	<40	<8,000	<40	<40	<40	<2,000	<40	<4,000	<40
Methacrylonitrile	126-98-7	7.50E-01	1.04E+00	µg/L	<20	<4,000	<20	<20	<20	<1,000	<20	<2,000	<20
Methyl Methacrylate	80-62-6	1.40E+03	1.42E+03	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Methylene Chloride	75-09-2	9.90E+00	5.00E+00	µg/L	<5	<1,000	<5	<5	<5	<250	<5	<500	<5
Pentachloroethane	76-01-7	5.60E-01	- -	µg/L	<5	<1,000	<5	<5	<5	<250	<5	<500	<5
Propionitrile	107-12-0	- -	- -	µg/L	<20	<4,000	<20	<20	<20	<1,000	<20	<2,000	<20
Styrene	100-42-5	1.10E+03	1.00E+02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Tetrachloroethene	127-18-4	9.70E+00	5.00E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Toluene	108-88-3	8.60E+02	1.00E+03	µg/L	<1	<200	<1	2.4	<1	**2,600**	1.1	**1,300**	<1
trans-1,2-Dichloroethene	156-60-5	8.60E+01	1.00E+02	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
trans-1,3-Dichloropropene	10061-02-6	- -	- -	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
trans-1,4-Dichloro-2-butene	110-57-6	1.20E-03	- -	µg/L	<2	<400	<2	<2	<2	<100	<2	<200	<2
Trichloroethene	79-01-6	4.40E-01	5.00E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Trichlorofluoromethane	75-69-4	1.10E+03	1.29E+03	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Vinyl Acetate	108-05-4	4.10E+02	4.12E+02	µg/L	<2	<400	<2	<2	<2	<100	<2	<200	<2
Vinyl Chloride	75-01-4	1.50E-02	2.00E+00	µg/L	<1	<200	<1	<1	<1	<50	<1	<100	<1
Xylenes (total)	1330-20-7	1.90E+02	1.00E+04	µg/L	<2	<400	<2	<2	<2	<100	<2	<200	<2
Semivolatile Organics Compounds-EPA Method 8270C													
1,1'-Biphenyl	92-52-4	8.30E-01	3.04E+02	µg/L	NA	<1,000	NA	**770**	NA	NA	NA	<97	NA
1,2,4,5-Tetrachlorobenzene	95-94-3	1.20E+00	1.10E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1,2,4-Trichlorobenzene	120-82-1	9.90E-01	7.00E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1,2-Dichlorobenzene	95-50-1	2.80E+02	6.00E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1,3,5-Trinitrobenzene	99-35-4	4.60E+02	1.10E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1,3-Dichlorobenzene	541-73-1	- -	5.48E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1,3-Dinitrobenzene	99-65-0	1.50E+00	3.65E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1,4-Dichlorobenzene	106-46-7	4.20E-01	7.50E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1,4-Dioxane	123-91-1	6.70E-01	6.09E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	**890**	NA
1,4-Naphthoquinone	130-15-4	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
1-Naphthylamine	134-32-7	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,2'-Oxybis(1-Chloropropane)	108-60-1	3.10E-01	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,3,4,6-Tetrachlorophenol	58-90-2	1.70E+02	1.10E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,4,5-Trichlorophenol	95-95-4	8.90E+02	3.65E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,4,6-Trichlorophenol	88-06-2	3.50E+00	6.09E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,4-Dichlorophenol	120-83-2	3.50E+01	1.10E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,4-Dimethylphenol	105-67-9	2.70E+02	7.30E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,4-Dinitrophenol	51-28-5	3.00E+01	7.30E+01	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
2,4-Dinitrotoluene	121-14-2	2.00E-01	7.30E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,6-Dichlorophenol	87-65-0	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2,6-Dinitrotoluene	606-20-2	1.50E+01	3.65E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Acetylaminofluorene	53-96-3	1.40E-02	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Chloronaphthalene	91-58-7	5.50E+02	4.87E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Chlorophenol	95-57-8	7.10E+01	3.04E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Methylnaphthalene	91-57-6	2.70E+01	1.22E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Methylphenol	95-48-7	7.20E+02	1.83E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Naphthylamine	91-59-8	3.30E-02	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Nitroaniline	88-74-4	1.50E+02	4.17E-01	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
2-Nitrophenol	88-75-5	- -	4.16E-01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
2-Picoline	109-06-8	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
3 & 4 Methylphenol	15831-10-4	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	660	NA
3,3'-Dichlorobenzidine	91-94-1	1.10E-01	1.49E-01	µg/L	NA	<6,000	NA	<600	NA	NA	NA	<580	NA
3,3'-Dimethylbenzidine	119-93-7	5.60E-03	7.28E-03	µg/L	NA	<2,000	NA	<200	NA	NA	NA	<190	NA
3-Methylcholanthrene	56-49-5	9.80E-04	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
3-Nitroaniline	99-09-2	- -	- -	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
4,6-Dinitro-2-methylphenol	534-52-1	1.20E+00	3.65E+00	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
4-Aminobiphenyl	92-67-1	2.60E-03	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
4-Bromophenyl-phenylether	101-55-3	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
4-Chloro-3-Methylphenol	59-50-7	1.10E+03	7.30E+04	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
4-Chloroaniline	106-47-8	3.20E-01	1.46E+02	µg/L	NA	<2,000	NA	<200	NA	NA	NA	<190	NA

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ_GW	UNITS	MW-16 07/28/11	MW-17 07/26/11	MW-18 07/27/11	MW-19 07/26/11	MW-20 07/27/11	MW-21 07/26/11	MW-22 07/27/11	MW-23 07/26/11	MW-24 07/27/11
4-Chlorophenyl-phenylether	7005-72-3	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
4-Nitroaniline	100-01-6	3.30E+00	- -	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
4-Nitrophenol	100-02-7	- -	2.92E+02	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
4-Nitroquinoline-1-oxide	56-57-5	- -	- -	µg/L	NA	<2,000	NA	<200	NA	NA	NA	<190	NA
4-Phenylenediamine	106-50-3	3.00E+03	6.94E+03	µg/L	NA	<200,000	NA	<20,000	NA	NA	NA	<19,000	NA
5-Nitro-o-toluidine	99-55-8	7.00E+00	2.03E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
7,12-Dimethylbenz(a)anthracene	57-97-6	8.60E-05	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
a,a'-Dimethylphenethylamine	122-09-8	- -	- -	µg/L	NA	<200,000	NA	<20,000	NA	NA	NA	<19,000	NA
Acenaphthene	83-32-9	4.00E+02	3.65E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Acenaphthylene	208-96-8	- -	2.19E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Acetophenone	98-86-2	1.50E+03	4.16E-02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Aniline	62-53-3	1.20E+01	1.17E+01	µg/L	NA	<2,000	NA	<200	NA	NA	NA	<190	NA
Anthracene	120-12-7	1.30E+03	4.34E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Aramite	140-57-8	2.70E+00	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Benzo(a)anthracene	56-55-3	2.90E-02	9.17E-02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Benzo(a)pyrene	50-32-8	2.90E-03	2.00E-01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Benzo(b)fluoranthene	205-99-2	2.90E-02	9.17E-02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Benzo(g,h,i)perylene	191-24-2	- -	1.10E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Benzo(k)fluoranthene	207-08-9	2.90E-01	9.17E-01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Benzyl Alcohol	100-51-6	1.50E+03	1.10E+04	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
bis(2-Chloroethoxy)methane	111-91-1	4.70E+01	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
bis(2-Chloroethyl)ether	111-44-4	1.20E-02	9.20E-03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
bis(2-Ethylhexyl)phthalate	117-81-7	7.10E-02	6.00E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Butylbenzylphthalate	85-68-7	1.40E+01	2.69E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Chrysene	218-01-9	2.90E+00	9.17E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Diallate	2303-16-4	4.60E-01	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Dibenzo(a,h)anthracene	53-70-3	2.90E-03	9.17E-03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Dibenzofuran	132-64-9	5.80E+00	2.43E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Diethylphthalate	84-66-2	1.10E+04	2.92E+04	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Dimethoate	60-51-5	3.10E+00	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Dimethylphthalate	131-11-3	- -	3.65E+05	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Di-n-Butylphthalate	84-74-2	6.70E+02	3.65E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Di-n-Octylphthalate	117-84-0	- -	2.00E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Dinoseb	88-85-7	1.10E+01	7.00E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Disulfoton	298-04-4	3.80E-01	1.46E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Ethyl Methanesulfonate	62-50-0	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Ethyl Parathion	56-38-2	6.50E+01	2.19E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Famphur	52-85-7	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Fluoranthene	206-44-0	6.30E+02	1.46E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Fluorene	86-73-7	2.20E+02	2.43E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Hexachlorobenzene	118-74-1	4.20E-02	1.00E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Hexachlorobutadiene	87-68-3	2.60E-01	8.59E-01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Hexachlorocyclopentadiene	77-47-4	2.20E+01	5.00E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Hexachloroethane	67-72-1	7.90E-01	4.78E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Hexachlorophene	70-30-4	4.70E+00	1.10E+01	µg/L	NA	<500,000	NA	<50,000	NA	NA	NA	<48,000	NA
Hexachloropropene	1888-71-7	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Indeno(1,2,3-cd)pyrene	193-39-5	2.90E-02	9.17E-02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Isophorone	78-59-1	6.70E+01	7.05E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Isosafrole	120-58-1	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Methapyrilene	91-80-5	- -	- -	µg/L	NA	<200,000	NA	<20,000	NA	NA	NA	<19,000	NA
Methyl Methanesulfonate	66-27-3	6.80E-01	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Methyl Parathion	298-00-0	3.40E+00	9.13E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Naphthalene	91-20-3	1.40E-01	6.20E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Nitrobenzene	98-95-3	1.20E-01	3.53E+00	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitrosodiethylamine	55-18-5	1.40E-04	4.46E-04	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitrosodimethylamine	62-75-9	4.20E-04	1.31E-03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitroso-di-n-butylamine	924-16-3	2.40E-03	1.89E-03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitroso-di-n-propylamine	621-64-7	9.30E-03	9.57E-03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitrosodiphenylamine	86-30-6	1.00E+01	1.37E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitrosomethylethylamine	10595-95-6	3.00E-03	3.04E-03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitrosomorpholine	59-89-2	1.00E-02	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitrosopiperidine	100-75-4	7.10E-03	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
N-Nitrosopyrrolidine	930-55-2	3.20E-02	3.19E-02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
o,o,o-Triethylphosphorothioate	126-68-1	- -	- -	µg/L	NA	12,000	NA	<99	NA	NA	NA	<97	NA
o-Toluidine	95-53-4	- -	2.79E-01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
p-Dimethylaminoazobenzene	60-11-7	4.30E-03	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA

Table A-2. Summary of Monitor Well Groundwater Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location ID: / Date Collected:	CAS #	EPA RSL TAP	MDEQ_GW	UNITS	MW-16 07/28/11	MW-17 07/26/11	MW-18 07/27/11	MW-19 07/26/11	MW-20 07/27/11	MW-21 07/26/11	MW-22 07/27/11	MW-23 07/26/11	MW-24 07/27/11
Pentachlorobenzene	608-93-5	2.30E+00	2.92E+01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Pentachloronitrobenzene	82-68-8	1.00E-01	2.58E-01	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Pentachlorophenol	87-86-5	1.70E-01	1.00E+00	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
Phenacetin	62-44-2	3.00E+01	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Phenanthrene	85-01-8	- -	1.10E+03	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Phenol	108-95-2	4.50E+03	2.19E+04	µg/L	NA	<1,000	NA	<99	NA	NA	NA	140	NA
Phorate	298-02-2	2.30E+00	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Pronamide	23950-58-5	9.00E+02	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Pyrene	129-00-0	8.70E+01	1.83E+02	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Pyridine	110-86-1	1.50E+01	3.65E+01	µg/L	NA	<5,000	NA	<500	NA	NA	NA	<480	NA
Safrole	94-59-7	6.20E-02	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Sulfotep	3689-24-5	5.30E+00	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Thionazin	297-97-2	- -	- -	µg/L	NA	<1,000	NA	<99	NA	NA	NA	<97	NA
Dioxins-EPA Method 8290													
2,3,7,8-TCDD	1746-01-6	5.20E-07	3.00E+01	pg/L	NA	<10	NA	<10	NA	NA	NA	<10	NA
Total TEQ	- -	- -	- -	pg/L	NA	0.00	NA	0.00	NA	NA	NA	0.00	NA
Inorganics-EPA Method 6020													
Antimony	7440-36-0	6.00E+00	6.00E+00	µg/L	NA	<5	NA	<5	NA	NA	NA	<5	NA
Arsenic	7440-38-2	4.50E-02	5.00E+01	µg/L	NA	**28**	NA	**14**	NA	NA	NA	**19**	NA
Barium	7440-39-3	2.90E+03	2.00E+03	µg/L	NA	120	NA	51	NA	NA	NA	240	NA
Beryllium	7440-41-7	1.60E+01	4.00E+00	µg/L	NA	<0.5	NA	<0.5	NA	NA	NA	3.3	NA
Cadmium	7440-43-9	- -	5.00E+00	µg/L	NA	<0.5	NA	<0.5	NA	NA	NA	<0.5	NA
Chromium	7440-47-3	- -	- -	µg/L	NA	<5	NA	<5	NA	NA	NA	5	NA
Cobalt	7440-48-4	4.70E+00	2.19E+03	µg/L	NA	0.69	NA	<0.5	NA	NA	NA	0.71	NA
Copper	7440-50-8	6.20E+02	1.30E+03	µg/L	NA	<5	NA	<5	NA	NA	NA	<5	NA
Lead	7439-92-1	- -	1.50E+01	µg/L	NA	<1.5	NA	<1.5	NA	NA	NA	<1.5	NA
Nickel	7440-02-0	3.00E+02	7.30E+02	µg/L	NA	<5	NA	<5	NA	NA	NA	<5	NA
Selenium	7782-49-2	7.80E+01	5.00E+01	µg/L	NA	<2.5	NA	<2.5	NA	NA	NA	<2.5	NA
Silver	7440-22-4	7.10E+01	1.83E+02	µg/L	NA	<1	NA	<1	NA	NA	NA	<1	NA
Thallium	7440-28-0	1.60E-01	2.00E+00	µg/L	NA	<1	NA	<1	NA	NA	NA	<1	NA
Tin	7440-31-5	9.30E+03	2.19E+04	µg/L	NA	<5	NA	<5	NA	NA	NA	<5	NA
Vanadium	7440-62-2	- -	2.56E+02	µg/L	NA	<10	NA	<10	NA	NA	NA	16	NA
Zinc	7440-66-6	4.70E+03	1.10E+04	µg/L	NA	<20	NA	57	NA	NA	NA	<20	NA
Inorganics-EPA Method 7470A													
Mercury	7439-97-6	6.30E-01	2.00E+00	µg/L	NA	<0.2	NA	<0.2	NA	NA	NA	<0.2	NA
Miscellaneous-Method 9034													
Sulfide	18496-25-8	- -	- -	mg/L	NA	4.2	NA	<1	NA	NA	NA	7.9	NA
Miscellaneous- Method 9012A													
Cyanide	57-12-5	9.30E+00	2.00E-01	mg/L	NA	<0.01	NA	<0.01	NA	NA	NA	<0.01	NA

Notes:

Boldface type	Compound detected.
*	Laboratory duplicate analysis was outside control limits.
<	Less than.
- -	Standard not promulgated.
	Shaded cells indicate that the reported result exceeds th
EPA	U.S. Environmental Protection Agency.
MDEQ	Mississippi Department of Environmentl Quality.
MDEQ_GW	MDEQ Tier 1 Target Remediation Goal.
mg/L	Milligrams per liter.
µg/L	Micrograms per liter.
NA	Not analyzed.
RSL	Regional Screening Level.
TEQ	Toxic equivalent.

ARCADIS

Appendix A-3

Summary of Soil Analytical Results,
Human Health Comparison Criteria

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: / Sample Depth(ft): / Date Collected: / Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-01 (4-6) 4 - 6 03/12/12 AO-GP-01	SS-AO-GP-01 (6-8) 6 - 8 03/12/12 AO-GP-01	SS-AO-GP-01 (12-14) 12 - 14 03/12/12 AO-GP-01	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-03 (2-4) 2 - 4 03/14/12 AO-GP-03	SS-AO-GP-03 (10.5-12) 10.5 - 12 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-04 (4-6) 4 - 6 03/14/12 AO-GP-04	SS-AO-GP-04 (10.75-12) 10.75 - 12 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-19 (6-8) 6 - 8 03/15/12 AO-GP-19	SS-AO-GP-19 (24-26) 24 - 26 03/15/12 AO-GP-19
VOCs Method 8260																	
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<9.2	<9.1	<10	<8.9	<8.2	<10 [<8.3]	<9.8	<8.1	<10	<9.5 *	<11 *	<10 *
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	<23	<23	<25	<22	<21	<25 [<21]	**16 J**	<20	<25	**19 J***	<28 *	<26 *
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<23	<23	<25	<22	<21	<25 [<21]	<24	<20	<25	<24 *	<28 *	<26 *
3-Chloropropene	ug/kg	3,400	680	- -	- -	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2 J]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<23	<23	<25	<22	<21	<25 [<21]	<24	<20	<25	<24	<28	<26
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	<46	**10 J**	<50	<45 B	<41 B	<51 [<42 B]	<160 B	<40 B	<50	**180 ***	<55 *	J*
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<180	<180	<200	<180	<160	<200 [<170]	<200	<160	<200	<190	<220	<210
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<92	<91	<100	<89	<82	<100 [<83]	<98	<81	<100	<95	<110	<100
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<92	<91	<100	<89	<82	<100 [<83]	<98	<81	<100	<95	<110	<100
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<4.6	<4.6	<5.0	<4.5	**1.9 J**	**33 J [<4.2]**	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	<4.6	<4.6	<5.0	<4.5	**1.6 J**	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Chloroform	ug/kg	1,500	290	478.05952	312.047672	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Iodomethane	ug/kg	- -	- -	- -	- -	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<180	<180	<200	<180	<160	<200 [<170]	<200	<160	<200	<190	<220	<210
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<92	<91	<100	<89	<82	<100 [<83]	<98	<81	<100	<95	<110	<100
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<9.2	<9.1	<10	<8.9	<8.2	<10 [<8.3]	<9.8	<8.1	<10	<9.5	<11	<10
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<23	<23	<25	<22	<21	<25 [<21]	<24	<20	<25	<24	<28	<26
Propionitrile	ug/kg	- -	- -	- -	- -	<92	<91	<100	<89	<82	<100 [<83]	<98	<81	<100	<95	<110	<100
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<4.6	<4.6	<5.0	**1.2 J**	**9.5**	<5.1 [1.3 J]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<9.2	<9.1	<10	<8.9	<8.2	<10 [<8.3]	<9.8	<8.1	<10	<9.5	<11	<10
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<9.2	<9.1	<10	<8.9	<8.2	<10 [<8.3]	<9.8	<8.1	<10	<9.5	<11	<10

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-01 (4-6) 4 - 6 03/12/12 AO-GP-01	SS-AO-GP-01 (6-8) 6 - 8 03/12/12 AO-GP-01	SS-AO-GP-01 (12-14) 12 - 14 03/12/12 AO-GP-01	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-03 (2-4) 2 - 4 03/14/12 AO-GP-03	SS-AO-GP-03 (10.5-12) 10.5 - 12 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-04 (4-6) 4 - 6 03/14/12 AO-GP-04	SS-AO-GP-04 (10.75-12) 10.75 - 12 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-19 (6-8) 6 - 8 03/15/12 AO-GP-19	SS-AO-GP-19 (24-26) 24 - 26 03/15/12 AO-GP-19
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<4.6	<4.6	<5.0	<4.5	<4.1	<5.1 [<4.2]	<4.9	<4.0	<5.0	<4.7	<5.5	<5.2
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<9.2	<9.1	<10	<8.9	<8.2	<10 [<8.3]	<9.8	<8.1	<10	<9.5	<11	<10
SVOCs Method 8270C																	
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	<39	<38	<40	<40	**9.6 J**	<44 [8.3 J]	<41	<38	<42	<380	<37	**15 J**
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
1-Naphthylamine	ug/kg	- -	- -	- -	- -	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<390	<380	<400	<400	<360	<440 [<360]	<410	<380	<420	<3,800	<370	<430
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	<8.0	<7.8	<8.2	<8.1	**54**	<8.9 [44]	<8.3	<7.7	<8.4	<76	<7.4	**7.8 J**
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2-Naphthylamine	ug/kg	960	270	- -	- -	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<200	<200	<210	<210	<180	<230 [<190]	<210	<200	<210	<1,900	<190	<220
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
2-Picoline	ug/kg	- -	- -	- -	- -	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<200	<200	<210	<210	<180	<230 [<190]	<210	<200	<210	<1,900	<190	<220
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<200	<200	<210	<210	<180	<230 [<190]	<210	<200	<210	<1,900	<190	<220
4-Aminobiphenyl	ug/kg	82	23	- -	- -	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<200	<200	<210	<210	<180	<230 [<190]	<210	<200	<210	<1,900	<190	<220
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<200	<200	<210	<210	<180	<230 [<190]	<210	<200	<210	<1,900	<190	<220
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<390	<380	<400	<400	<360	<440 [<360]	<410	<380	<420	<3,800	<370	<430
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	<990	<970	<1,000	R	R	R [R]	R	R	R	<9,500 *	<920 *	<1,100 *
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	<8,000	<7,800	<8,200	<8,100	<7,300	<8,900 [<7,300]	<8,300	<7,700	<8,400	<76,000	<7,400	<8,800
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<8.0	<7.8	<8.2	**4.2 J**	**6.3 J**	<8.9 [6.8 J]	<8.3	<7.7	**6.5 J**	<76	<7.4	**53**
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<8.0	<7.8	<8.2	<8.1	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	<76	<7.4	<8.8

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-01 (4-6) 4 - 6 03/12/12 AO-GP-01	SS-AO-GP-01 (6-8) 6 - 8 03/12/12 AO-GP-01	SS-AO-GP-01 (12-14) 12 - 14 03/12/12 AO-GP-01	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-03 (2-4) 2 - 4 03/14/12 AO-GP-03	SS-AO-GP-03 (10.5-12) 10.5 - 12 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-04 (4-6) 4 - 6 03/14/12 AO-GP-04	SS-AO-GP-04 (10.75-12) 10.75 - 12 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-19 (6-8) 6 - 8 03/15/12 AO-GP-19	SS-AO-GP-19 (24-26) 24 - 26 03/15/12 AO-GP-19
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	**15 J**	<750	<73	<86
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<8.0	<7.8	<8.2	**5.0 J**	**3.9 J**	**15 [6.1 J]**	<8.3	<7.7	<8.4	<76	<7.4	**37**
Aramite	ug/kg	69,000	19,000	- -	- -	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	<8.0	<7.8	<8.2	<8.1	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	<8.0	<7.8	<8.2	<8.1	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	<8.0	<7.8	<8.2	**4.8 J**	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	<8.0	<7.8	<8.2	<8.1	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	<8.0	<7.8	<8.2	<8.1	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	**40 J**	<7.4	<8.8
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	<39	<38	<40	**8.0 J**	**8.0 J**	<44 [<36]	**9.8 J**	<38	<42	<380	**7.9 J**	<43
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	<79	<13 B	**63 JB**	<80 B	<72 B	<88 B [<72 B]	<82 B	<76 B	<83 B	<750	JB	**210 B**
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	<8.0	<7.8	<8.2	**4.8 J**	<7.3	**9.7 [<7.3]**	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Diallate	ug/kg	28,000	8,000	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<8.0	<7.8	<8.2	<8.1	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<39	<38	<40	<40	**24 J**	<44 [24 J]	<41	<38	<42	<380	<37	**69**
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<39	**9.9 J**	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Dimethoate	ug/kg	120,000	12,000	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<200	<200	<210	<210	<180	<230 [<190]	<210	<200	<210	<1,900	<190	<220
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
Diphenyl Ether	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	**40 J**
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Famphur	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	**12**	**4.5 J**	<8.2	**10**	**5.6 J**	**8.1 J [7.6]**	<8.3	<7.7	**17**	<76	<7.4	**40**
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<8.0	<7.8	<8.2	**5.2 J**	**8.8**	<8.9 [10]	<8.3	<7.7	**4.7 J**	<76	<7.4	**66**
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	<20,000	<20,000	<21,000	<21,000	<18,000	23,000 [<19,000	<21,000	R	<21,000	<190,000 *	<19,000	<22,000
Hexachloropropene	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	<8.0	<7.8	<8.2	<8.1	<7.3	<8.9 [<7.3]	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Isosafrole	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Methapyrilene	ug/kg	- -	- -	- -	- -	<8,000	<7,800	<8,200	<8,100	<7,300	<8,900 [<7,300]	<8,300	<7,700	<8,400	<76,000	<7,400	<8,800
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	<8.0	<7.8	<8.2	<8.1	**41**	<8.9 [29]	<8.3	<7.7	<8.4	<76	<7.4	<8.8
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-01 (4-6) 4 - 6 03/12/12 AO-GP-01	SS-AO-GP-01 (6-8) 6 - 8 03/12/12 AO-GP-01	SS-AO-GP-01 (12-14) 12 - 14 03/12/12 AO-GP-01	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-03 (2-4) 2 - 4 03/14/12 AO-GP-03	SS-AO-GP-03 (10.5-12) 10.5 - 12 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-04 (4-6) 4 - 6 03/14/12 AO-GP-04	SS-AO-GP-04 (10.75-12) 10.75 - 12 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-19 (6-8) 6 - 8 03/15/12 AO-GP-19	SS-AO-GP-19 (24-26) 24 - 26 03/15/12 AO-GP-19
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<79	<77	<80	<80	<72	<88 [<72]	<82	<76	<83	<750	<73	<86
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<200	<200	<210	<210	<180	<230 [<190]	<210	<200	<210	<1,900	<190	<220
Phenacetin	ug/kg	780,000	220,000	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	**8.8**	**6.6 J**	<8.2	**12**	**14**	**11 [20]**	<8.3	<7.7	**9.3**	<76	<7.4	**110**
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Phorate	ug/kg	120,000	12,000	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	<8.0	<7.8	<8.2	**7.3 J**	**4.2 J**	**5.6 J [5.8 J]**	<8.3	<7.7	**11**	<76	<7.4	**21**
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Safrole	ug/kg	7,800	520	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Sulfotep	ug/kg	310,000	31,000	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Thionazin	ug/kg	- -	- -	- -	- -	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<42	<380	<37	<43
Organochlorine Pest Method 8081																	
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	**17**	**0.62 J**	<4.3
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	**7.1**	<3.6	<4.3
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<20	<20	<21	<20	<18	<22 [<19]	<21	<20	<21	<19	<19	<22
Aldrin	ug/kg	100	29	336.658824	37.57212	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<41	<38	<36	<43
Aroclor-1221	ug/kg	540	140	10,000	1,000	<80	<77	<82	<81	<72	<89 [<73]	<83	<77	<84	<76	<74	<88
Aroclor-1232	ug/kg	540	140	10,000	1,000	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<41	<38	<36	<43
Aroclor-1242	ug/kg	740	220	10,000	1,000	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<41	<38	<36	<43
Aroclor-1248	ug/kg	740	220	10,000	1,000	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<41	<38	<36	<43
Aroclor-1254	ug/kg	740	220	10,000	1,000	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<41	<38	<36	<43
Aroclor-1260	ug/kg	740	220	10,000	1,000	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<41	<38	<36	<43
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Delta-BHC	ug/kg	- -	- -	- -	- -	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Dieldrin	ug/kg	110	30	357.7	39.920378	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Heptachlor	ug/kg	380	110	194.614481	127.03229	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<2.0	<2.0	<2.1	<2.0	<1.8	<2.2 [<1.9]	<2.1	<2.0	<2.1	<1.9	<1.9	<2.2
Isodrin	ug/kg	- -	- -	- -	- -	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
Kepone	ug/kg	170	49	- -	- -	<200	<200	<210	<200	<180	<220 [<190]	<210	<200	<210	<190	<190	<220
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<3.9	<3.8	<4.0	<4.0	<3.6	<4.4 [<3.6]	<4.1	<3.8	<4.1	<3.8	<3.6	<4.3
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<20	<20	<21	<20	<18	<22 [<19]	<21	<20	<21	<19	<19	<22
Total PCBs	ug/kg	740	220	10,000	1,000	<39	<38	<40	<40	<36	<44 [<36]	<41	<38	<41	<38	<36	<43
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<200	<200	<210	<200	<180	<220 [<190]	<210	<200	<210	<190	<190	<220
Herbicides Method 8151																	
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<9.8	<9.6	<10 H	<9.9	<9.0	<11 [<9.1]	<10	<9.5	<10	<9.5	<9.2	<11
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<9.8 J	<9.6 H	<10 H	<9.9	<9.0 J	<11 [<9.1]	<10	<9.5	<10	<9.5	<9.2	<11
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<9.9 H	<9.6	<10 H	<9.9	<9.0	<11 [<9.1]	<10	<9.5	<10	<9.5	<9.2	<11
Dioxathion/Dioxenethion Method 8310																	
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**67.4**	<82.5	<84.9	<85.4	**973 J**	<0.509 J [370 J]	<85.1	**1,310 J**	<0.508	<84.3	<82.2	<83.1

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-01 (4-6) 4 - 6 03/12/12 AO-GP-01	SS-AO-GP-01 (6-8) 6 - 8 03/12/12 AO-GP-01	SS-AO-GP-01 (12-14) 12 - 14 03/12/12 AO-GP-01	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-03 (2-4) 2 - 4 03/14/12 AO-GP-03	SS-AO-GP-03 (10.5-12) 10.5 - 12 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-04 (4-6) 4 - 6 03/14/12 AO-GP-04	SS-AO-GP-04 (10.75-12) 10.75 - 12 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-19 (6-8) 6 - 8 03/15/12 AO-GP-19	SS-AO-GP-19 (24-26) 24 - 26 03/15/12 AO-GP-19
Dioxenethion	ug/kg	- -	- -	- -	- -	<0.508	**44.1**	**45**	**316**	**234**	**14.5 J [132 J]**	**648 J**	<0.5	<0.508	<16.9	**49.9**	**37.1**
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	<0.508	<82.5	<84.9	**508**	**84.1**	<0.509 [98.7 J]	<85.1	**72.8**	<0.508	<84.3	<82.2	<83.1
Dioxins and Furans Method 8290																	
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**120**	**850**	**61**	**71**	**62**	**3.9 J [84]**	**89**	**64**	**24**	**55**	**12**	**5.5 J**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	<6.7	<5.9	<7.1	**6.1**	**5.3 J**	<6.3 [6.8]	**6.3**	<5.8	<6.0	**6.9**	**1.2 J**	<6.2
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	<6.7	<5.9	<7.1	**0.36 J**	**0.33 J**	<6.3 [0.52 J]	**0.22 J**	<5.8	<6.0	**0.45 J**	<5.7	<6.2
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	<6.7	**1.3 J**	**0.87 J**	**0.88 J**	**0.87 J**	<6.3 [0.8 J]	**1.2 J**	**0.26 J**	**0.60 J**	**0.66 QJ**	<5.7	<6.2
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.7	<5.9	<7.1	**0.28 J**	**0.15 J**	<6.3 [0.23 J]	**0.17 J**	<5.8	<6.0	**0.85 J**	**0.15 QJ**	<6.2
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	<6.7	**16**	**1.7 J**	**2.3 J**	**1.6 J**	**0.52 J [2.4 J]**	**37**	**4.1 QJ**	**1.2 J**	**2.6 J**	**0.46 J**	<6.2
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.7	<5.9	<7.1	**0.25 J**	**0.26 J**	<6.3 [0.3 J]	**0.36 J**	<5.8	<6.0	**1.3 QJ**	<5.7	<6.2
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	**1.5 J**	**63 C**	**3.6 J**	**4.0 J**	**2.8 J**	**0.45 J [3.9 J]**	**19**	**4.5 J**	**2.6 J**	**2.1 J**	**0.77 QJ**	**0.32 J**
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.7	<5.9	<7.1	<5.5	<5.4	<6.3 [<5.5]	<5.6	<5.8	<6.0	<5.5	<5.7	<6.2
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	<6.7	**0.70 J**	<7.1	**0.54 J**	**0.33 J**	<6.3 [0.5 J]	**2.6 J**	**0.26 J**	<6.0	**0.59 QJ**	<5.7	<6.2
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	<6.7	<5.9	<7.1	<5.5	<5.4	<6.3 [<5.5]	<5.6	<5.8	<6.0	**0.46 J**	<5.7	<6.2
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.7	<5.9	<7.1	**0.27 J**	**0.18 J**	<6.3 [0.23 J]	**0.33 J**	<5.8	<6.0	**0.58 QJ**	<5.7	<6.2
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	<6.7	<5.9	<7.1	**0.11 J**	<5.4	<6.3 [<5.5]	<5.6	<5.8	<6.0	**0.36 QJ**	<5.7	<6.2
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	<1.3	<1.2	<1.4	<1.1	<1.1	<1.3 [<1.1]	<1.1	<1.2	<1.2	<1.1	<1.1	<1.2
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	<1.3	<1.2	<1.4	**0.25 J**	<1.1	<1.3 [<1.1]	<1.1	<1.2	<1.2	**0.53 QJ**	<1.1	<1.2
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	<13	**0.16 J**	<14	**15**	**15**	<13 [21]	**17**	**0.54 J**	<12	**8.0 J**	**1.6 J**	<12
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**21,000 EJ**	**16,000 EJ**	**1,500 B**	**1,200 B**	**1,300 B**	**41 B [1,400 B]**	**1,200 B**	**1,400 B**	**260 B**	**5,600 BE**	**560 B**	**70 B**
Total Metals Method 6020																	
Antimony	mg/kg	410	31	81.66666667	31.28571429	<2.4	<2.1	<2.4	<2.2	<2.1	<2.6 [<1.9]	<2.4	<2.2	<2.5	<2.1	<2.0 *	<2.6 *
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**1.6**	**0.91**	**2.2**	**2.0**	**1.7**	**1.2 [2]**	**5.0**	**1.6**	**3.1**	**3.8**	**0.32 J**	**3.0**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**56**	**59**	**150**	**34 J**	**14 J**	**240 J [37 J]**	**48 J**	**28 J**	**120 J**	**38**	**10**	**130**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**0.80**	**0.59**	**1.6**	**0.20**	**0.11**	**0.64 [0.2]**	**0.32**	**0.13**	**1.1**	**0.17**	<0.099	**1.8**
Cadmium	mg/kg	800	70	1,022	39.10714286	<0.12	<0.11	<0.12	**0.035 J**	**0.029 J**	**0.048 J [0.058 J**	**0.042 J**	<0.11	**0.069 J**	**0.028 J**	<0.099	**0.085 J**
Chromium	mg/kg	- -	- -	- -	- -	**6.0 J**	**11 J**	**30 J**	**5.7**	**4.4**	**12 [6.4]**	**14**	**7.0**	**17**	**10**	**2.8**	**24**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**3.2 J**	**3.3 J**	**11 J**	**1.8 J**	**0.78 J**	**8.6 J [1.8 J]**	**2.6 J**	**0.81 J**	**8.3 J**	**2.0**	**0.47**	**10**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**5.2**	**3.6**	**14**	**2.4**	**1.7**	**7.4 [2.6]**	**7.8**	**2.0**	**10**	**5.3**	**0.81 J**	**15**
Lead	mg/kg	800	400	1,700	400	**11 J**	**9.4 J**	**16 J**	**8.3**	**4.7**	**8.9 [7.5]**	**8.8**	**5.1**	**17**	**9.2**	**5.0**	**12**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**5.6**	**5.9**	**24**	**2.5**	**1.5**	**11 [3.4]**	**6.2**	**1.2**	**19**	**6.9**	**1.7**	**24**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	**1.2**	<1.1	**0.75 J**	<1.1	<1.0	<1.3 [<0.96]	<1.2	<1.1	<1.3	<1.0	<0.99	**1.0 J**
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	**0.12 J**	<0.21	<0.24	<0.22	<0.21	<0.26 [<0.19]	<0.24	<0.22	<0.25	<0.21	<0.20	<0.26
Thallium	mg/kg	10	0.78	143.08	5.475	**0.13 J**	**0.14 J**	**0.39**	**0.064 J**	<0.21	**0.20 J [0.088 J]**	**0.084 J**	**0.065 J**	**0.30**	**0.13 J**	<0.20	**0.38**
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	<24	<21	<24	<22	<21	<26 [<19]	<24	<22	<25	<21	<20	<26
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**9.5 J**	**16 J**	**42 J**	**11**	**8.4**	**15 [11]**	**19**	**9.1**	**26**	**19**	**2.9**	**42**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**9.7**	**15**	**74**	**17 J**	**12 J**	**30 J [16 J]**	**17 J**	**3.0 J**	**45 J**	**27**	**2.7 J**	**72**
Total Metals Method 7471																	
Mercury	mg/kg	43	10	61.25	10	<0.022	<0.022	<0.023	**0.014 J**	<0.019	<0.023 [0.013 J]	**0.016 J**	<0.019	<0.021	**0.035**	<0.020	<0.025
Cyanide																	
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	<0.59	<0.57	<0.60	<0.59	<0.52	<0.64 [<0.54]	<0.62	<0.55	<0.62	<0.55	<0.54	<0.63
Sulfide																	
Sulfide	mg/kg	- -	- -	- -	- -	<65	<64	<66	<70	<58	<71 [<62]	<57	<62	<62	<61	<60	<71
General Chemistry																	
Percent Moisture	%	- -	- -	- -	- -	**27.8**	**15.5**	**31.0**	**13.3**	**9.8**	**21.2 [14.1]**	**13.9**	**14.0**	**20.4**	**12.3**	**14.7**	**19.8**
Total Solids	% passing	- -	- -	- -	- -	**83.6**	**85.3**	**77.6**	**88.8**	**90.3**	**86.9 [89.4]**	**80.1**	**86.7**	**78.4**	**84.6**	**81**	**78**

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: / Sample Depth(ft): / Date Collected: / Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-20 (8-10) 8 - 10 03/19/12 AO-GP-20	SS-AO-GP-20 (12-14) 12 - 14 03/19/12 AO-GP-20	SS-AO-GP-21 (2-4) 2 - 4 03/20/12 AO-GP-21	SS-AO-GP-21 (5-7) 5 - 7 03/20/12 AO-GP-21	SS-AO-GP-21 (14-16) 14 - 16 03/20/12 AO-GP-21	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-22 (4-6) 4 - 6 03/19/12 AO-GP-22	SS-AO-GP-22 (8-10) 8 - 10 03/19/12 AO-GP-22	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-23 (2-4) 2 - 4 03/19/12 AO-GP-23	SS-AO-GP-23 (8-10) 8 - 10 03/19/12 AO-GP-23
VOCs Method 8260																	
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<8.2	<8.8	<9.5	<330	<350	<9.4	<9.8	<8.5	<10	<10	<9.1	<8.7
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	**4.4 J**	<22	<24	<830	**470 J**	**5.4 J**	**13 J**	<21	<25	**3.0 J**	**9.0 J**	<22
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<21	<22	<24	<830	<880	<23	<25	<21	<25	<25	<23	<22
3-Chloropropene	ug/kg	3,400	680	- -	- -	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<21	<22	<24	<830	<880	<23	<25	<21	<25	<25	<23	<22
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	**63**	**16 J**	**26 J**	<1,700	<1,800	**12 J**	**200**	**14 J**	<50	**40 J**	**220**	<43
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<160	<180	<190	<6,600	<7,000	<190	<200	<170	<200	<200	<180	<170
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<82	<88	<95	<3,300	<3,500	<94	<98	<85	<100	<100	<91	<87
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<82	<88	<95	<3,300	<3,500	<94	<98	<85	<100	<100	<91	<87
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<4.1	<4.4	<4.7	**210**	**190**	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	<4.1	**1.1 J**	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Chloroform	ug/kg	1,500	290	478.05952	312.047672	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<4.1	<4.4	<4.7	**530**	**240**	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Iodomethane	ug/kg	- -	- -	- -	- -	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<160	<180	<190	<6,600	<7,000	<190	<200	<170	<200	<200	<180	<170
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<82	<88	<95	<3,300	<3,500	<94	<98	<85	<100	<100	<91	<87
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<8.2	<8.8	<9.5	<330	<350	<9.4	<9.8	<8.5	<10	<10	<9.1	<8.7
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<21	<22	<24	<830	<880	<23	<25	<21	<25	<25	<23	<22
Propionitrile	ug/kg	- -	- -	- -	- -	<82	<88	<95	<3,300	<3,500	<94	<98	<85	<100	<100	<91	<87
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<4.1	<4.4	<4.7	**440**	**140 J**	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<8.2	<8.8	<9.5	<330	<350	<9.4	<9.8	<8.5	<10	<10	<9.1	<8.7
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<8.2	<8.8	<9.5	<330	<350	<9.4	<9.8	<8.5	<10	<10	<9.1	<8.7

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-20 (8-10) 8 - 10 03/19/12 AO-GP-20	SS-AO-GP-20 (12-14) 12 - 14 03/19/12 AO-GP-20	SS-AO-GP-21 (2-4) 2 - 4 03/20/12 AO-GP-21	SS-AO-GP-21 (5-7) 5 - 7 03/20/12 AO-GP-21	SS-AO-GP-21 (14-16) 14 - 16 03/20/12 AO-GP-21	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-22 (4-6) 4 - 6 03/19/12 AO-GP-22	SS-AO-GP-22 (8-10) 8 - 10 03/19/12 AO-GP-22	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-23 (2-4) 2 - 4 03/19/12 AO-GP-23	SS-AO-GP-23 (8-10) 8 - 10 03/19/12 AO-GP-23
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<4.1	<4.4	<4.7	<170	<180	<4.7	<4.9	<4.3	<5.0	<5.1	<4.5	<4.3
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<8.2	<8.8	<9.5	**2,700**	**640**	<9.4	<9.8	<8.5	<10	<10	<9.1	<8.7
SVOCs Method 8270C																	
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
1-Naphthylamine	ug/kg	- -	- -	- -	- -	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<370	<410	<420	<370	<390	<420	<400	<390	<420	<400	<390	<410
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	<7.6	<8.3	<8.6	**400**	**510**	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2-Naphthylamine	ug/kg	960	270	- -	- -	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
2-Picoline	ug/kg	- -	- -	- -	- -	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
4-Aminobiphenyl	ug/kg	82	23	- -	- -	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<370	<410	<420	<370	<390	<420	<400	<390	<420	<400	<390	<410
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	<940 *	<1,000	<1,100	<940 *	<970 *	<1,000 *	<1,000	<990	<1,100	<1,000	<980	<1,000
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	<7,600	<8,300	<8,600	<7,600	<7,800	<8,400	<8,000	<8,000	<8,500	<8,100	<7,900	<8,200
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-20 (8-10) 8 - 10 03/19/12 AO-GP-20	SS-AO-GP-20 (12-14) 12 - 14 03/19/12 AO-GP-20	SS-AO-GP-21 (2-4) 2 - 4 03/20/12 AO-GP-21	SS-AO-GP-21 (5-7) 5 - 7 03/20/12 AO-GP-21	SS-AO-GP-21 (14-16) 14 - 16 03/20/12 AO-GP-21	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-22 (4-6) 4 - 6 03/19/12 AO-GP-22	SS-AO-GP-22 (8-10) 8 - 10 03/19/12 AO-GP-22	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-23 (2-4) 2 - 4 03/19/12 AO-GP-23	SS-AO-GP-23 (8-10) 8 - 10 03/19/12 AO-GP-23
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Aramite	ug/kg	69,000	19,000	- -	- -	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	**5.1 J**	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	**6.2 J**	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	**3.6 J**	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	**180**	**21 J**	**18 J**	<75	**20 J**	**10 J**	**12 J**	**7.8 J**	**12 J**	**11 J**	**25 J**	**7.6 J**
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	**5.0 J**	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Diallate	ug/kg	28,000	8,000	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Dimethoate	ug/kg	120,000	12,000	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
Diphenyl Ether	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Famphur	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	**5.2 J**	<8.3	<8.6	<7.6	<7.8	<8.4	**5.4 J**	<8.0	<8.5	**4.3 J**	<7.9	<8.2
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	<19,000 *	<21,000	<22,000	<19,000 *	<20,000 *	<21,000 *	<20,000	<20,000	<22,000	<21,000	<20,000	<21,000
Hexachloropropene	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	<7.6	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Isosafrole	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Methapyrilene	ug/kg	- -	- -	- -	- -	<7,600	<8,300	<8,600	<7,600	<7,800	<8,400	<8,000	<8,000	<8,500	<8,100	<7,900	<8,200
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	<7.6	<8.3	<8.6	**270**	**680**	<8.4	<8.0	<8.0	<8.5	<8.1	<7.9	<8.2
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-20 (8-10) 8 - 10 03/19/12 AO-GP-20	SS-AO-GP-20 (12-14) 12 - 14 03/19/12 AO-GP-20	SS-AO-GP-21 (2-4) 2 - 4 03/20/12 AO-GP-21	SS-AO-GP-21 (5-7) 5 - 7 03/20/12 AO-GP-21	SS-AO-GP-21 (14-16) 14 - 16 03/20/12 AO-GP-21	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-22 (4-6) 4 - 6 03/19/12 AO-GP-22	SS-AO-GP-22 (8-10) 8 - 10 03/19/12 AO-GP-22	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-23 (2-4) 2 - 4 03/19/12 AO-GP-23	SS-AO-GP-23 (8-10) 8 - 10 03/19/12 AO-GP-23
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<75	<81	<84	<75	<77	<83	<79	<79	<84	<80	<78	<81
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
Phenacetin	ug/kg	780,000	220,000	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	**3.8 J**	<8.3	<8.6	<7.6	<7.8	<8.4	<8.0	**3.3 J**	<8.5	<8.1	<7.9	<8.2
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Phorate	ug/kg	120,000	12,000	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	**6.1 J**	<8.3	<8.6	<7.6	<7.8	<8.4	**4.2 J**	<8.0	<8.5	<8.1	<7.9	<8.2
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Safrole	ug/kg	7,800	520	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Sulfotep	ug/kg	310,000	31,000	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Thionazin	ug/kg	- -	- -	- -	- -	<37	<41	<42	<37	<39	<42	<40	<39	<42	<40	<39	<41
Organochlorine Pest Method 8081																	
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	<4.0	<3.9	<4.0
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	**1.4 J**	<4.0	<4.2	<3.7	<3.9	<4.1	**1.3 Jp**	<3.9	<4.2	**3.6 J**	<3.9	<4.0
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	**1.8 Jp**	<4.0	<4.2	<3.7	<3.9	<4.1	**5.6**	<3.9	<4.2	**8.5**	<3.9	<4.0
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<19	<21	<22	<19	<20	<21	<20	<20	<22	<21	<20	<21
Aldrin	ug/kg	100	29	336.658824	37.57212	<1.9	<2.1	<2.2	<1.9	<2.0	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<1.9	<2.1	<2.2	<1.9	<2.0	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<37	<40	<42	<37	<39	<41	<40	<39	<42	<40	<39	<40
Aroclor-1221	ug/kg	540	140	10,000	1,000	<76	<82	<85	<76	<78	<84	<80	<79	<85	<81	<79	<82
Aroclor-1232	ug/kg	540	140	10,000	1,000	<37	<40	<42	<37	<39	<41	<40	<39	<42	<40	<39	<40
Aroclor-1242	ug/kg	740	220	10,000	1,000	<37	<40	<42	<37	<39	<41	<40	<39	<42	<40	<39	<40
Aroclor-1248	ug/kg	740	220	10,000	1,000	<37	<40	<42	<37	<39	<41	<40	<39	<42	<40	<39	<40
Aroclor-1254	ug/kg	740	220	10,000	1,000	<37	<40	<42	<37	<39	<41	<40	<39	<42	<40	<39	<40
Aroclor-1260	ug/kg	740	220	10,000	1,000	<37	<40	<42	<37	<39	<41	<40	<39	<42	<40	<39	<40
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<1.9	<2.1	<2.2	<1.9	<2.0	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Delta-BHC	ug/kg	- -	- -	- -	- -	**0.28 Jp**	<2.1	<2.2	<1.9	<2.0	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Dieldrin	ug/kg	110	30	357.7	39.920378	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	**1.2 Jp**	<3.9	<4.0
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<1.9	<2.1	<2.2	**0.33 Jp**	**0.21 Jp**	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	<4.0	<3.9	<4.0
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	<4.0	<3.9	<4.0
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	<4.0	<3.9	<4.0
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	<4.0	<3.9	<4.0
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<1.9	<2.1	<2.2	<1.9	<2.0	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Heptachlor	ug/kg	380	110	194.614481	127.03229	<1.9	<2.1	<2.2	<1.9	<2.0	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<1.9	<2.1	<2.2	<1.9	<2.0	<2.1	<2.0	<2.0	<2.2	<2.1	<2.0	<2.1
Isodrin	ug/kg	- -	- -	- -	- -	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	<4.0	<3.9	<4.0
Kepone	ug/kg	170	49	- -	- -	<190	<210	<220	<190	<200	<210	<200	<200	<220	<210	<200	<210
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<3.7	<4.0	<4.2	<3.7	<3.9	<4.1	<4.0	<3.9	<4.2	<4.0	<3.9	<4.0
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<19	<21	<22	<19	<20	<21	<20	<20	<22	<21	<20	<21
Total PCBs	ug/kg	740	220	10,000	1,000	<37	<40	<42	<37	<39	<41	<40	<39	<42	<40	<39	<40
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<190	<210	<220	<190	<200	<210	<200	<200	<220	**160 J**	<200	<210
Herbicides Method 8151																	
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<9.3	<10	<11	<9.3	<9.6	<10	<10	<9.9	<11	<10	<9.7	<10
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<9.3	<10	<11	<9.3	<9.6	<10	<10	<9.9	<11	<10	<9.7	<10
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<9.3	<10	<11	<9.3	<9.6	<10	<10	<9.9	<11	<10	<9.7	<10
Dioxathion/Dioxenethion Method 8310																	
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**177**	<85.4	<84.8	**101**	**1,930 J**	<84	<84.8	<84.8	<84.8	**113**	**941**	<85.5

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-20 (8-10) 8 - 10 03/19/12 AO-GP-20	SS-AO-GP-20 (12-14) 12 - 14 03/19/12 AO-GP-20	SS-AO-GP-21 (2-4) 2 - 4 03/20/12 AO-GP-21	SS-AO-GP-21 (5-7) 5 - 7 03/20/12 AO-GP-21	SS-AO-GP-21 (14-16) 14 - 16 03/20/12 AO-GP-21	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-22 (4-6) 4 - 6 03/19/12 AO-GP-22	SS-AO-GP-22 (8-10) 8 - 10 03/19/12 AO-GP-22	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-23 (2-4) 2 - 4 03/19/12 AO-GP-23	SS-AO-GP-23 (8-10) 8 - 10 03/19/12 AO-GP-23
Dioxenethion	ug/kg	- -	- -	- -	- -	<17	<17.1	<17	**412**	**40.1 J**	<16.8	**327**	**91.7**	**59.7**	**1,870**	**72.4**	<17.1
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**210**	<85.4	<84.8	**177**	**876 J**	<84	**258**	<84.8	<84.8	**384**	<85.7	<85.5
Dioxins and Furans Method 8290																	
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**160**	**54**	**95**	**41**	**20**	**170**	**11**	**16**	**56**	**29**	**9.4**	**310**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	**16**	**0.13 QJ**	<6.0	<5.5	**0.34 QJ**	<6.1	**0.30 QJ**	<5.8	<6.2	**4.9 J**	**0.27 J**	<5.9
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	**1.2 QJ**	<5.7	<6.0	<5.5	<5.7	<6.1	<6.0	<5.8	<6.2	<5.6	<5.8	<5.9
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	**2.5 J**	**0.26 QJ**	**1.5 QJ**	<5.5	<5.7	**2.3 J**	<6.0	<5.8	**0.49 QJ**	**0.31 QJ**	<5.8	**7.6**
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**1.5 J**	<5.7	<6.0	<5.5	<5.7	<6.1	<6.0	<5.8	<6.2	**1.2 J**	<5.8	<5.9
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	**5.2 J**	**1.0 J**	**3.3 J**	<5.5	**0.48 J**	**3.2 QJ**	<6.0	**0.46 QJ**	**1.9 J**	**0.95 J**	**0.27 QJ**	**16**
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**5.2 J**	**0.069 QJ**	<6.0	<5.5	**0.32 J**	<6.1	<6.0	<5.8	**0.37 QJ**	**4.3 QJ**	<5.8	<5.9
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	**5.6 C**	**11 C**	**5.8 J**	**4.9 QJ**	**0.99 QJ**	**8.5 C**	**0.29 J**	**1.9 QJ**	**3.5 QJ**	**1.1 J**	**0.56 QJ**	**24**
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	<5.5	<5.7	<6.0	<5.5	<5.7	<6.1	<6.0	<5.8	<6.2	<5.6	<5.8	<5.9
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	**1.4 QJ**	<5.7	**0.68 QJ**	<5.5	<5.7	**0.94 J**	<6.0	<5.8	<6.2	**0.72 QJ**	<5.8	**3.3 J**
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	**0.25 QJ**	<5.7	<6.0	<5.5	<5.7	<6.1	<6.0	<5.8	<6.2	<5.6	<5.8	<5.9
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**0.62 QJ**	<5.7	<6.0	<5.5	<5.7	<6.1	<6.0	<5.8	<6.2	**0.69 QJ**	<5.8	<5.9
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	<5.5	<5.7	<6.0	<5.5	<5.7	<6.1	<6.0	<5.8	<6.2	**0.54 QJ**	<5.8	<5.9
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	**0.99 QJ**	<1.1	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.2	**0.70 QJ**
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	**0.69 QJ**	<1.1	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.2	<1.2
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	**41**	<11	<12	<11	**0.98 QJ**	<12	<12	**0.53 J**	<12	**5.0 J**	**0.48 J**	<12
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**2,200 B**	**480 B**	**1,200 B**	**5,700 BE**	**1,500 B**	**2,800 B**	**590 B**	**350 B**	**350 B**	**590 B**	**380 B**	**3,200 B**
Total Metals Method 6020																	
Antimony	mg/kg	410	31	81.66666667	31.28571429	<2.2	<2.3	<2.5	<2.2	<2.2	<2.3	<2.2	<2.3	<2.4	<2.3	<2.3	<2.4
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**2.9**	**0.61**	**5.5**	**8.3**	**1.4**	**0.70**	**1.2**	**0.55 J**	**4.2**	**2.4**	**3.1**	**2.1**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**48**	**33**	**93**	**22**	**13**	**99**	**36**	**19**	**62**	**49**	**27**	**85**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**0.21**	**0.19**	**1.0**	**0.20**	**0.071 J**	**0.42**	**0.13**	**0.098 J**	**0.77**	**0.22**	**0.20**	**0.75**
Cadmium	mg/kg	800	70	1,022	39.10714286	**0.090 J**	<0.12	**0.060 J**	<0.11	<0.11	**0.056 J**	**0.13**	<0.12	**0.043 J**	**0.17**	<0.11	**0.030 J**
Chromium	mg/kg	- -	- -	- -	- -	**8.4**	**7.9**	**13**	**21**	**4.4**	**9.9**	**3.4**	**4.7**	**8.9**	**8.2**	**7.4**	**9.2**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**1.9**	**0.62**	**21**	**1.1**	**0.62**	**6.8**	**1.6**	**1.3**	**4.0**	**2.9**	**3.7**	**9.4**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**6.3**	**1.3**	**11**	**2.5**	**0.83 J**	**5.2**	**12**	**0.65 J**	**7.8**	**15**	**1.4**	**15**
Lead	mg/kg	800	400	1,700	400	**16**	**6.9**	**33**	**5.3**	**4.4**	**4.2**	**21**	**5.0**	**21**	**50**	**8.2**	**11**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**8.7**	**1.8**	**13**	**2.4**	**0.90 J**	**8.7**	**10**	**1.3**	**6.3**	**36**	**2.5**	**10**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	<1.1	<1.2	<1.3	<1.1	<1.1	<1.2	<1.1	<1.2	<1.2	<1.2	**0.73 J**	<1.2
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	<0.22	<0.23	<0.25	<0.22	<0.22	<0.23	**0.29**	<0.23	<0.24	**0.22 J**	<0.23	<0.24
Thallium	mg/kg	10	0.78	143.08	5.475	**0.11 J**	**0.060 J**	**0.36**	**0.099 J**	**0.070 J**	**0.18 J**	<0.22	**0.066 J**	**0.23 J**	**0.12 J**	**0.099 J**	**0.18 J**
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	<22	<23	<25	<22	<22	<23	<22	<23	<24	<23	<23	<24
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**14**	**14**	**42**	**40**	**7.5**	**14**	**3.9**	**7.1**	**32**	**8.8**	**13**	**19**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**40**	**4.2 J**	**42**	**6.7**	**3.0 J**	**25**	**41**	**5.1**	**26**	**65**	**6.9**	**29**
Total Metals Method 7471																	
Mercury	mg/kg	43	10	61.25	10	**0.029**	<0.024	**0.011 J**	**0.0095 J**	<0.023	<0.021	**0.84**	**0.0088 J**	**0.016 J**	**1.5**	**0.028**	<0.024
Cyanide																	
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	<0.54	<0.61	<0.61	<0.56	<0.57	<0.61	<0.59	**0.26 J**	<0.61	<0.58	**0.40 J**	<0.61
Sulfide																	
Sulfide	mg/kg	- -	- -	- -	- -	<57	<65	<63	<59	<67	<65	<65	<57	<58	<60	<55	<61
General Chemistry																	
Percent Moisture	%	- -	- -	- -	- -	**13.3**	**16.7**	**17.9**	**14.0**	**13.9**	**20.8**	**20.2**	**17.7**	**22.0**	**12.5**	**16.2**	**19.1**
Total Solids	% passing	- -	- -	- -	- -	**82.9**	**79.1**	**81.4**	**80.5**	**84.2**	**80.1**	**84.2**	**81.3**	**76.9**	**86.4**	**84.7**	**73.5**

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-24 (6-8) 6 - 8 03/16/12 AO-GP-24	SS-AO-GP-24 (20-22) 20 - 22 03/16/12 AO-GP-24	SS-AO-GP-25 (2-4) 2 - 4 03/15/12 AO-GP-25	SS-AO-GP-25 (4-6) 4 - 6 03/15/12 AO-GP-25	SS-AO-GP-25 (7-9) 7 - 9 03/15/12 AO-GP-25	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-26 (1.5-3.0) 1.5 - 3 03/20/12 AO-GP-26	SS-AO-GP-26 (10-12) 10 - 12 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27	SS-AO-GP-27 (4-6) 4 - 6 03/13/12 AO-GP-27	SS-AO-GP-27 (8-10) 8 - 10 03/13/12 AO-GP-27
VOCs Method 8260																	
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<8.6	<9.5	<10	<8.6 *	<8.8 *	<10 *	<14	<8.9	<10 [<11]	<11	<8.1	<9.2
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	**4.5 J**	**3.3 J**	<25	**17 J***	<22 *	<25 *	**11 J**	<22	**2.6 J [<27]**	<27	<20	<23
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<22	<24	<25	<22 *	<22 *	<25 *	<35	<22	<25 [<27]	<27	<20	<23
3-Chloropropene	ug/kg	3,400	680	- -	- -	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<22	<24	<25	<22	<22	<25	<35	<22	<25 [<27]	<27	<20	<23
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	**60**	**26 J**	<51	*	J*	J*	**140**	**13 J**	**16 J [<53]**	**25 J**	<40	**11 J**
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<170	<190	<200	<170	<180	<200	<280	<180	<200 [<210]	<210	<160	<180
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<86	<95	<100	<86	<88	<100	<140	<89	<100 [<110]	<110	<81	<92
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<86	<95	<100	<86	<88	<100	<140	<89	<100 [<110]	<110	<81	<92
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Chloroform	ug/kg	1,500	290	478.05952	312.047672	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Iodomethane	ug/kg	- -	- -	- -	- -	<4.3	<4.8	<5.1	**3.0 J**	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<170	<190	<200	<170	<180	<200	<280	<180	<200 [<210]	<210	<160	<180
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<86	<95	<100	<86	<88	<100	<140	<89	<100 [<110]	<110	<81	<92
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<8.6	<9.5	<10	<8.6	<8.8	<10	<14	<8.9	<10 [<11]	<11	<8.1	<9.2
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<22	<24	<25	<22	<22	<25	<35	<22	<25 [<27]	<27	<20	<23
Propionitrile	ug/kg	- -	- -	- -	- -	<86	<95	<100	<86	<88	<100	<140	<89	<100 [<110]	<110	<81	<92
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<8.6	<9.5	<10	<8.6	<8.8	<10	<14	<8.9	<10 [<11]	<11	<8.1	<9.2
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<8.6	<9.5	<10	<8.6	<8.8	<10	<14	<8.9	<10 [<11]	<11	<8.1	<9.2

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-24 (6-8) 6 - 8 03/16/12 AO-GP-24	SS-AO-GP-24 (20-22) 20 - 22 03/16/12 AO-GP-24	SS-AO-GP-25 (2-4) 2 - 4 03/15/12 AO-GP-25	SS-AO-GP-25 (4-6) 4 - 6 03/15/12 AO-GP-25	SS-AO-GP-25 (7-9) 7 - 9 03/15/12 AO-GP-25	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-26 (1.5-3.0) 1.5 - 3 03/20/12 AO-GP-26	SS-AO-GP-26 (10-12) 10 - 12 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27	SS-AO-GP-27 (4-6) 4 - 6 03/13/12 AO-GP-27	SS-AO-GP-27 (8-10) 8 - 10 03/13/12 AO-GP-27
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<4.3	<4.8	<5.1	<4.3	<4.4	<5.1	<7.0	<4.5	<5.0 [<5.3]	<5.3	<4.0	<4.6
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<8.6	<9.5	<10	<8.6	<8.8	<10	<14	<8.9	<10 [<11]	<11	<8.1	<9.2
SVOCs Method 8270C																	
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	<38	<39	<46	**13 J**	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
1-Naphthylamine	ug/kg	- -	- -	- -	- -	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<380	<390	<460	<390	<400	<450	<430	<380	<440 [<420]	<4,000 J	<370	<400
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	**30**
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2-Naphthylamine	ug/kg	960	270	- -	- -	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<190	<200	<240	<200	<200	<230	<220	<200	<230 [<220]	<2,100 J	<190	<200
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
2-Picoline	ug/kg	- -	- -	- -	- -	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<190	<200	<240	<200	<200	<230	<220	<200	<230 [<220]	<2,100 J	<190	<200
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<190	<200	<240	<200	<200	<230	<220	<200	<230 [<220]	<2,100 J	<190	<200
4-Aminobiphenyl	ug/kg	82	23	- -	- -	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<190	<200	<240	<200	<200	<230	<220	<200	<230 [<220]	<2,100 J	<190	<200
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<190	<200	<240	<200	<200	<230	<220	<200	<230 [<220]	<2,100 J	<190	<200
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<380	<390	<460	<390	<400	<450	<430	<380	<440 [<420]	<4,000 J	<370	<400
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	R	R	R	<970 *	<1,000 *	<1,100 *	<1,100 *	<970 *	1,100 * [<1,100	<10,000 J	<940	<1,000
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	<7,700	<7,900	<9,400	<7,900	<8,100	<9,100	<8,800	<7,800	<8,900 [<8,600]	<82,000 J	<7,600	<8,100
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	**18**
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	<8.1

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-24 (6-8) 6 - 8 03/16/12 AO-GP-24	SS-AO-GP-24 (20-22) 20 - 22 03/16/12 AO-GP-24	SS-AO-GP-25 (2-4) 2 - 4 03/15/12 AO-GP-25	SS-AO-GP-25 (4-6) 4 - 6 03/15/12 AO-GP-25	SS-AO-GP-25 (7-9) 7 - 9 03/15/12 AO-GP-25	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-26 (1.5-3.0) 1.5 - 3 03/20/12 AO-GP-26	SS-AO-GP-26 (10-12) 10 - 12 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27	SS-AO-GP-27 (4-6) 4 - 6 03/13/12 AO-GP-27	SS-AO-GP-27 (8-10) 8 - 10 03/13/12 AO-GP-27
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	**5.0 J**
Aramite	ug/kg	69,000	19,000	- -	- -	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [4.4 J]	<82 J	<7.6	<8.1
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [4.5 J]	<82 J	<7.6	<8.1
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [11]	<82 J	<7.6	<8.1
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	<8.1
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	<8.1
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	<38	<39	<46	**16 J**	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	**690**	**15 J**	**64 J**	JB	JB	JB	**9.8 J**	**12 J**	**12 J [9.6 J]**	<800 J	<14 B	<10 B
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [6.5 J]	<82 J	<7.6	<8.1
Diallate	ug/kg	28,000	8,000	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	<8.1
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	**22 J**
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	**9.9 J**	**17 J**
Dimethoate	ug/kg	120,000	12,000	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<190	<200	<240	<200	<200	<230	<220	<200	<230 [<220]	<2,100 J	<190	<200
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
Diphenyl Ether	ug/kg	- -	- -	- -	- -	<38	<39	<46	**16 J**	<40	**15 J**	<43	<38	<44 [<42]	<400 J	<37	<40
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Famphur	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [10]	<82 J	**4.0 J**	**5.8 J**
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	**17**
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	R	R	R	<20,000	<20,000	<23,000	<22,000 *	<20,000 *	3,000 * [<22,000	<210,000 J	<19,000	<20,000
Hexachloropropene	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	<8.1
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Isosafrole	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Methapyrilene	ug/kg	- -	- -	- -	- -	<7,700	<7,900	<9,400	<7,900	<8,100	<9,100	<8,800	<7,800	<8,900 [<8,600]	<82,000 J	<7,600	<8,100
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	<8.9 [<8.6]	<82 J	<7.6	**19**
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-24 (6-8) 6 - 8 03/16/12 AO-GP-24	SS-AO-GP-24 (20-22) 20 - 22 03/16/12 AO-GP-24	SS-AO-GP-25 (2-4) 2 - 4 03/15/12 AO-GP-25	SS-AO-GP-25 (4-6) 4 - 6 03/15/12 AO-GP-25	SS-AO-GP-25 (7-9) 7 - 9 03/15/12 AO-GP-25	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-26 (1.5-3.0) 1.5 - 3 03/20/12 AO-GP-26	SS-AO-GP-26 (10-12) 10 - 12 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27	SS-AO-GP-27 (4-6) 4 - 6 03/13/12 AO-GP-27	SS-AO-GP-27 (8-10) 8 - 10 03/13/12 AO-GP-27
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<76	<78	<92	<77	<79	<89	<86	<77	<87 [<84]	<800 J	<75	<80
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<190	<200	<240	<200	<200	<230	<220	<200	<230 [<220]	<2,100 J	<190	<200
Phenacetin	ug/kg	780,000	220,000	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	<7.7	<7.9	<9.4	<7.9	<8.1	**3.5 J**	<8.8	<7.8	**3.6 J [<8.6]**	<82 J	**2.7 J**	**27**
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Phorate	ug/kg	120,000	12,000	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	<7.7	<7.9	<9.4	<7.9	<8.1	<9.1	<8.8	<7.8	**4.9 J [13]**	<82 J	<7.6	<8.1
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Safrole	ug/kg	7,800	520	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Sulfotep	ug/kg	310,000	31,000	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Thionazin	ug/kg	- -	- -	- -	- -	<38	<39	<46	<39	<40	<45	<43	<38	<44 [<42]	<400 J	<37	<40
Organochlorine Pest Method 8081																	
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	<3.8	<3.9	<4.6	**5.2**	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	**0.94 J**
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	<3.8	<3.9	<4.6	**6.7**	<4.0	<4.5	**3.5 J**	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	<3.8	<3.9	<4.6	**1.3 J**	<4.0	<4.5	**1.2 Jp**	<3.8	<4.3 [<4.2]	**2.2 J**	<3.7	**2.4 J**
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<19	<20	<24	<20	<20	<23	<22	<20	<22 [<22]	<21	<19	<20
Aldrin	ug/kg	100	29	336.658824	37.57212	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<38	<39	<46	<39	<40	<45	<43	<38	<43 [<42]	<40	<37	<40
Aroclor-1221	ug/kg	540	140	10,000	1,000	<76	<79	<93	<78	<80	<91	<88	<78	<88 [<85]	<81	<75	<80
Aroclor-1232	ug/kg	540	140	10,000	1,000	<38	<39	<46	<39	<40	<45	<43	<38	<43 [<42]	<40	<37	<40
Aroclor-1242	ug/kg	740	220	10,000	1,000	<38	<39	<46	<39	<40	<45	<43	<38	<43 [<42]	<40	<37	<40
Aroclor-1248	ug/kg	740	220	10,000	1,000	<38	<39	<46	<39	<40	<45	<43	<38	<43 [<42]	<40	<37	<40
Aroclor-1254	ug/kg	740	220	10,000	1,000	<38	<39	<46	<39	<40	<45	<43	<38	<43 [<42]	<40	<37	<40
Aroclor-1260	ug/kg	740	220	10,000	1,000	<38	<39	<46	<39	<40	<45	<43	<38	<43 [<42]	<40	<37	<40
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Delta-BHC	ug/kg	- -	- -	- -	- -	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Dieldrin	ug/kg	110	30	357.7	39.920378	<3.8	<3.9	<4.6	<3.9	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<3.8	<3.9	<4.6	<3.9	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<3.8	<3.9	<4.6	<3.9	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<3.8	<3.9	<4.6	<3.9	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<3.8	<3.9	<4.6	<3.9	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Heptachlor	ug/kg	380	110	194.614481	127.03229	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<1.9	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.0	<2.2 [<2.2]	<2.1	<1.9	<2.0
Isodrin	ug/kg	- -	- -	- -	- -	<3.8	<3.9	<4.6	<3.9	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
Kepone	ug/kg	170	49	- -	- -	<190	<200	<240	<200	<200	<230	<220	<200	<220 [<220]	<210	<190	<200
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<3.8	<3.9	<4.6	<3.9	<4.0	<4.5	<4.3	<3.8	<4.3 [<4.2]	<4.0	<3.7	<4.0
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<19	<20	<24	<20	<20	<23	<22	<20	<22 [<22]	<21	<19	<20
Total PCBs	ug/kg	740	220	10,000	1,000	<38	<39	<46	<39	<40	<45	<43	<38	<43 [<42]	<40	<37	<40
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<190	<200	<240	<200	<200	<230	<220	<200	<220 [<220]	<210	<190	<200
Herbicides Method 8151																	
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<9.5	<9.8	<12	<9.7	<9.9	<11	<11	<9.7	<11 [<11]	**6.9 JH**	<9.3 H	<9.9
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<9.5	<9.8	<12	<9.7	<9.9	<11	<11	<9.7	<11 [<11]	<10 H	<9.3 J	<9.9 J
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<9.5	<9.8	<12	<9.7	<9.9	<11	<11	<9.7	<11 [<11]	<10 H	<9.3 H	<9.9
Dioxathion/Dioxenethion Method 8310																	
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**485**	<85.3	<83.6	**151**	**41.9 J**	<83.9	<84.8	<83.8	<84.9 [<83.4]	**111 J**	<83.4	<0.503

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-24 (6-8) 6 - 8 03/16/12 AO-GP-24	SS-AO-GP-24 (20-22) 20 - 22 03/16/12 AO-GP-24	SS-AO-GP-25 (2-4) 2 - 4 03/15/12 AO-GP-25	SS-AO-GP-25 (4-6) 4 - 6 03/15/12 AO-GP-25	SS-AO-GP-25 (7-9) 7 - 9 03/15/12 AO-GP-25	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-26 (1.5-3.0) 1.5 - 3 03/20/12 AO-GP-26	SS-AO-GP-26 (10-12) 10 - 12 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27	SS-AO-GP-27 (4-6) 4 - 6 03/13/12 AO-GP-27	SS-AO-GP-27 (8-10) 8 - 10 03/13/12 AO-GP-27
Dioxenethion	ug/kg	- -	- -	- -	- -	**54.6**	<17.1	<16.8	**200**	<0.499	**51.4**	**96.7**	**47.3**	**43.3 [44.3]**	**1,460**	**340**	**96.5**
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	<84.5	<85.3	<83.6	**360**	<0.499	<83.9	**412**	**298**	<84.9 [<83.4]	**224**	<83.4	<0.503
Dioxins and Furans Method 8290																	
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**9.2**	**0.77 J**	**4.5 J**	**70**	**22**	**9.6**	**26**	**11**	**52 [18]**	**26 J**	**14**	**2.6 J**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	**0.30 J**	<7.0	<6.2	**0.74 J**	<6.3	<6.1	**2.6 J**	<5.5	<6.4 [3.6 J]	**4.0 J**	<5.4	<6.1
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	<6.2	<7.0	<6.2	<5.9	<6.3	<6.1	<6.0	<5.5	<6.4 [<6.3]	**0.61 J**	<5.4	<6.1
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	<6.2	<7.0	<6.2	**0.38 QJ**	<6.3	**0.14 J**	**0.36 QJ**	<5.5	**1.3 J [<6.3]**	<5.6 J	<5.4	<6.1
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.2	<7.0	<6.2	<5.9	<6.3	<6.1	<6.0	<5.5	<6.4 [0.26 QJ]	**0.35 J**	<5.4	<6.1
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	<6.2	<7.0	<6.2	**1.2 QJ**	<6.3	**0.23 QJ**	**0.98 J**	**0.16 QJ**	**2.4 J [1.8 J]**	**0.89 J**	<5.4	<6.1
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.2	<7.0	<6.2	<5.9	<6.3	<6.1	**1.4 J**	<5.5	<6.4 [1.3 QJ]	**0.33 J**	<5.4	<6.1
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	<6.2	<7.0	<6.2	**2.6 QJ**	**1.1 QJ**	**0.96 J**	**0.73 J**	**0.58 J**	**3.0 CJ [1 QJ]**	**0.74 J**	**0.58 J**	<6.1
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.2	<7.0	**0.21 J**	<5.9	<6.3	<6.1	<6.0	<5.5	<6.4 [<6.3]	<5.6 J	<5.4	<6.1
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	<6.2	<7.0	<6.2	**0.58 QJ**	<6.3	<6.1	<6.0	<5.5	**0.54 QJ [<6.3]**	<5.6 J	<5.4	<6.1
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	<6.2	<7.0	<6.2	<5.9	<6.3	<6.1	<6.0	<5.5	<6.4 [<6.3]	<5.6 J	<5.4	<6.1
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.2	<7.0	<6.2	<5.9	<6.3	<6.1	<6.0	<5.5	<6.4 [<6.3]	<5.6 J	<5.4	<6.1
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	<6.2	<7.0	<6.2	<5.9	<6.3	<6.1	<6.0	<5.5	<6.4 [<6.3]	<5.6 J	<5.4	<6.1
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	<1.2	<1.4	<1.2	<1.2	<1.3	<1.2	<1.2	<1.1	<1.3 [<1.3]	<1.1 J	<1.1	<1.2
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	<1.2	<1.4	<1.2	<1.2	<1.3	<1.2	<1.2	<1.1	<1.3 [<1.3]	<1.1 J	<1.1	<1.2
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	<12	**0.70 J**	<12	**0.63 QJ**	<13	<12	**6.4 J**	<11	<13 [6.7 J]	**25 J**	<11	<12
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**910 B**	**110 B**	**39 B**	**4,700 BE**	**690 B**	**81 B**	**900 B**	**1,000 B**	**610 B [200 B]**	**1,100 J**	**640 B**	**36 B**
Total Metals Method 6020																	
Antimony	mg/kg	410	31	81.66666667	31.28571429	<2.2	<2.3	<2.5	<2.1 *	<2.2 *	<2.7 *	<2.5	<2.1	<2.4 [<2.3]	<2.4	<2.1	<2.3
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**2.1**	**0.74**	**1.9**	**2.7**	**1.4**	**1.4**	**2.5**	**1.3**	**10 [3.8]**	**2.9**	**1.2**	**6.1**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**28**	**10**	**190**	**29**	**19**	**45**	**92**	**17**	**210 [110]**	**110**	**55**	**99**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**0.11**	**0.061 J**	**0.77**	**0.14**	**0.12**	**0.91**	**0.32**	**0.11**	**1.8 [1.2]**	**0.62**	**0.32**	**1.3**
Cadmium	mg/kg	800	70	1,022	39.10714286	**0.039 J**	<0.12	**0.076 J**	<0.11	<0.11	**0.042 J**	**0.085 J**	<0.11	<0.12 [<0.11]	**0.032 J**	<0.10	**0.094 J**
Chromium	mg/kg	- -	- -	- -	- -	**5.2**	**4.5**	**15**	**9.7**	**12**	**21**	**6.5**	**3.9**	**16 [11]**	**18 J**	**6.1 J**	**13 J**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**1.8**	**0.50**	**16**	**2.3**	**0.94**	**7.5**	**3.1**	**0.42**	**17 [10]**	**4.1 J**	**1.6 J**	**8.7 J**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**8.1**	**1.2**	**9.0**	**3.3**	**1.7**	**9.5**	**13**	**1.1**	**13 [8.4]**	**13**	**2.1**	**9.6**
Lead	mg/kg	800	400	1,700	400	**33**	**4.4**	**47**	**7.8**	**4.8**	**16**	**36**	**5.2**	**20 [10]**	**14 J**	**6.1 J**	**10 J**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**3.0**	**1.5**	**13**	**5.3**	**2.4**	**15**	**5.5**	**1.3**	**20 [14]**	**9.1**	**3.4**	**19**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	<1.1	<1.2	<1.3	<1.1	<1.1	<1.3	**0.68 J**	<1.1	<1.2 [<1.1]	<1.2	**0.72 J**	**0.58 J**
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	<0.22	<0.23	<0.25	<0.21	<0.22	<0.27	<0.25	<0.21	<0.24 [<0.23]	<0.24	<0.21	<0.23
Thallium	mg/kg	10	0.78	143.08	5.475	**0.066 J**	<0.23	**0.32**	**0.13 J**	**0.085 J**	**0.20 J**	**0.12 J**	**0.077 J**	**0.40 [0.24]**	**0.24**	**0.088 J**	**0.24**
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	<22	<23	<25	<21	<22	<27	<25	<21	<24 [<23]	<24	<21	<23
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**8.2 J**	**7.2 J**	**21 J**	**18**	**17**	**30**	**11**	**7.0**	**25 [16]**	**26 J**	**8.2 J**	**19 J**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**26 J**	**3.0 J**	**40 J**	**10**	**5.8**	**39**	**26**	**5.9**	**58 [39]**	**31**	**7.9**	**48**
Total Metals Method 7471																	
Mercury	mg/kg	43	10	61.25	10	**0.077**	<0.023	<0.023	**0.011 J**	<0.023	<0.025	**0.057**	<0.021	<0.024 [<0.023]	**0.027**	<0.021	<0.021
Cyanide																	
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	**0.36 J**	<0.57	<0.67	**0.24 J**	<0.57	<0.65	<0.63	<0.56	<0.65 [<0.63]	<0.58	<0.54	<0.60
Sulfide																	
Sulfide	mg/kg	- -	- -	- -	- -	<69	<68	<79	<61	<65	<66	<63	<62	<63 [<76]	<61	<61	<57
General Chemistry																	
Percent Moisture	%	- -	- -	- -	- -	**22.0**	**29.6**	**20.8**	**17.6**	**22.0**	**21.1**	**20.0**	**12.7**	**22.6 [20.1]**	**15.2**	**11.2**	**18.4**
Total Solids	% passing	- -	- -	- -	- -	**80.5**	**87.3**	**84.5**	**80.3**	**84.7**	**79.7**	**78**	**87.5**	**76.1 [78]**	**82.2**	**89.1**	**81.4**

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: / Sample Depth(ft): / Date Collected: / Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-28 (6-8) 6 - 8 03/21/12 AO-GP-28	SS-AO-GP-28 (24-26) 24 - 26 03/21/12 AO-GP-28	SS-AO-GP-29 (2-4) 2 - 4 03/26/12 AO-GP-29	SS-AO-GP-29 (6-8) 6 - 8 03/26/12 AO-GP-29	SS-AO-GP-29 (24-26) 24 - 26 03/26/12 AO-GP-29	SS-AO-GP-30 (2-4) 2 - 4 03/16/12 AO-GP-30	SS-AO-GP-30 (6-8) 6 - 8 03/16/12 AO-GP-30	SS-AO-GP-30 (19-21) 19 - 21 03/16/12 AO-GP-30	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-31 (4-6) 4 - 6 03/14/12 AO-GP-31	SS-AO-GP-31 (11-12) 11 - 12 03/14/12 AO-GP-31
VOCs Method 8260																	
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<8.5	<12	<1,900	<9.3	<11	<11	<9.0	<11	<12	<9.3	<8.0	<10
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	**14 J**	<31	<4,800	<23 J	<28	<28 J	**6.7 J**	**3.3 J**	<29	<23	<20	<26
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<21	<31	<4,800	<23	<28	<28	<22	<27	<29	<23	<20	<26
3-Chloropropene	ug/kg	3,400	680	- -	- -	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<21	<31	<4,800	<23	<28	<28	<22	<27	<29	<23	<20	<26
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	**140 J**	<62	<9,500	**11 J**	<56	<55	**57**	**28 J**	<59	<68 B	<40	<51
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<170	<250	<38,000	<190	<220	<220	<180	<210	<240	<190	<160	<210
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<85	<120	<19,000	<93	<110	<110	<90	<110	<120	<93	<80	<100
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<85	<120	<19,000	<93	<110	<110	<90	<110	<120	<93	<80	<100
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<4.3	<6.2	**350 J**	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	**1.9 J**	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	**110 J**	**32**	**24,000**	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Chloroform	ug/kg	1,500	290	478.05952	312.047672	**27**	**5.4 J**	**3,500**	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Iodomethane	ug/kg	- -	- -	- -	- -	**7.0**	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<170	<250	<38,000	<190	<220	<220	<180	<210	<240	<190	<160	<210
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<85	<120	<19,000	<93	<110	<110	<90	<110	<120	<93	<80	<100
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<8.5	<12	<1,900	<9.3	<11	<11	<9.0	<11	<12	<9.3	<8.0	<10
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<21	<31	<4,800	<23	<28	<28	<22	<27	<29	<23	<20	<26
Propionitrile	ug/kg	- -	- -	- -	- -	<85	<120	<19,000	<93	<110	<110	<90	<110	<120	<93	<80	<100
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<8.5	<12	<1,900	<9.3	<11	<11	<9.0	<11	<12	<9.3	<8.0	<10
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<8.5	<12	<1,900	<9.3	<11	<11	<9.0	<11	<12	<9.3	<8.0	<10

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-28 (6-8) 6 - 8 03/21/12 AO-GP-28	SS-AO-GP-28 (24-26) 24 - 26 03/21/12 AO-GP-28	SS-AO-GP-29 (2-4) 2 - 4 03/26/12 AO-GP-29	SS-AO-GP-29 (6-8) 6 - 8 03/26/12 AO-GP-29	SS-AO-GP-29 (24-26) 24 - 26 03/26/12 AO-GP-29	SS-AO-GP-30 (2-4) 2 - 4 03/16/12 AO-GP-30	SS-AO-GP-30 (6-8) 6 - 8 03/16/12 AO-GP-30	SS-AO-GP-30 (19-21) 19 - 21 03/16/12 AO-GP-30	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-31 (4-6) 4 - 6 03/14/12 AO-GP-31	SS-AO-GP-31 (11-12) 11 - 12 03/14/12 AO-GP-31
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<4.3	<6.2	<950	<4.6	<5.6	<5.5	<4.5	<5.3	<5.9	<4.7	<4.0	<5.1
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<8.5	<12	<1,900	<9.3	<11	<11	<9.0	<11	<12	<9.3	<8.0	<10
SVOCs Method 8270C																	
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	**900 J**	**9.3 J**	**1,100**	<39	<45	<47	<38	<44	<48	**89 J**	<38	<43
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
1-Naphthylamine	ug/kg	- -	- -	- -	- -	<740 J	<71	<82	<79	<90	R	<76	<87	<95	<770 J	<75	<86
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<3,700 J	<360	<410	<390	<450	<470	<380	<440	<480	<3,900 J	<380	<430
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	**11**
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2-Naphthylamine	ug/kg	960	270	- -	- -	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<1,900 J	<180	<210	<200	<230	<240	<200	<220	<250	<2,000 J	<190	<220
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
2-Picoline	ug/kg	- -	- -	- -	- -	<740 J	<71	<82	<79	<90	R	<76	<87	<95	<770 J	<75	<86
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	<740 J	<71	<82	<79	<90	<94 J	<76	<87	<95	<770 J	<75	<86
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<1,900 J	<180	<210	<200	<230	<240	<200	<220	<250	<2,000 J	<190	<220
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<1,900 J	<180	<210	<200	<230	<240	<200	<220	<250	<2,000 J	<190	<220
4-Aminobiphenyl	ug/kg	82	23	- -	- -	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<1,900 J	<180	<210	<200	<230	<240	<200	<220	<250	<2,000 J	<190	<220
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<1,900 J	<180	<210	<200	<230	<240	<200	<220	<250	<2,000 J	<190	<220
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<3,700 J	<360	<410	<390	<450	<470	<380	<440	<480	<3,900 J	<380	<430
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	<9,400 J	<890	<1,000	<990	<1,100	R	R	R	R	R	R	R
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	<76,000 J	<7,200	<8,400	<8,000	<9,200	R	<7,700	<8,900	<9,700	<78,000 J	<7,600	<8,800
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-28 (6-8) 6 - 8 03/21/12 AO-GP-28	SS-AO-GP-28 (24-26) 24 - 26 03/21/12 AO-GP-28	SS-AO-GP-29 (2-4) 2 - 4 03/26/12 AO-GP-29	SS-AO-GP-29 (6-8) 6 - 8 03/26/12 AO-GP-29	SS-AO-GP-29 (24-26) 24 - 26 03/26/12 AO-GP-29	SS-AO-GP-30 (2-4) 2 - 4 03/16/12 AO-GP-30	SS-AO-GP-30 (6-8) 6 - 8 03/16/12 AO-GP-30	SS-AO-GP-30 (19-21) 19 - 21 03/16/12 AO-GP-30	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-31 (4-6) 4 - 6 03/14/12 AO-GP-31	SS-AO-GP-31 (11-12) 11 - 12 03/14/12 AO-GP-31
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8
Aramite	ug/kg	69,000	19,000	- -	- -	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	**6.9 J**
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	**6.7 J**
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	**6.4 J**
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	**38 J**	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	**6.3 J**
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	**210 J**	<38	<43
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	<740 J	<71 B	<82	<79 B	<90 B	<94 B	**7.0 J**	**8.3 J**	**8.7 J**	<770 J	<75 B	<86 B
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	**8.9**
Diallate	ug/kg	28,000	8,000	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Dimethoate	ug/kg	120,000	12,000	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<1,900 J	<180	<210	<200	**23 J**	**24 J**	<200	<220	<250	<2,000 J	<190	<220
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
Diphenyl Ether	ug/kg	- -	- -	- -	- -	**2,600 J**	**31 J**	**3,700 EJ**	<39	<45	<47	<38	**160**	<48	**110 J**	<38	**110**
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Famphur	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	**50 J**	<7.6	<8.8
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	R	R	R	<20,000	<23,000	<24,000	R	R	R	<200,000 J	<19,000	<22,000
Hexachloropropene	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Isosafrole	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Methapyrilene	ug/kg	- -	- -	- -	- -	<76,000 J	<7,200	<8,400	<8,000	<9,200	R	<7,700	<8,900	<9,700	<78,000 J	<7,600	<8,800
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	**4.8 J**	<9.7	<78 J	<7.6	**10**
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-28 (6-8) 6 - 8 03/21/12 AO-GP-28	SS-AO-GP-28 (24-26) 24 - 26 03/21/12 AO-GP-28	SS-AO-GP-29 (2-4) 2 - 4 03/26/12 AO-GP-29	SS-AO-GP-29 (6-8) 6 - 8 03/26/12 AO-GP-29	SS-AO-GP-29 (24-26) 24 - 26 03/26/12 AO-GP-29	SS-AO-GP-30 (2-4) 2 - 4 03/16/12 AO-GP-30	SS-AO-GP-30 (6-8) 6 - 8 03/16/12 AO-GP-30	SS-AO-GP-30 (19-21) 19 - 21 03/16/12 AO-GP-30	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-31 (4-6) 4 - 6 03/14/12 AO-GP-31	SS-AO-GP-31 (11-12) 11 - 12 03/14/12 AO-GP-31
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<740 J	<71	<82	<79	<90	<94	<76	<87	<95	<770 J	<75	<86
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<1,900 J	<180	<210	<200	<230	<240	<200	<220	<250	<2,000 J	<190	<220
Phenacetin	ug/kg	780,000	220,000	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	**46 J**	<7.6	**3.6 J**
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Phorate	ug/kg	120,000	12,000	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	<76 J	<7.2	<8.4	<8.0	<9.2	<9.6	<7.7	<8.9	<9.7	<78 J	<7.6	<8.8
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Safrole	ug/kg	7,800	520	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Sulfotep	ug/kg	310,000	31,000	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Thionazin	ug/kg	- -	- -	- -	- -	<370 J	<36	<41	<39	<45	<47	<38	<44	<48	<390 J	<38	<43
Organochlorine Pest Method 8081																	
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	**10 p**	<3.5	<4.1	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	**180 D**	<3.7	<4.3
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	**140 Ep**	<3.5	<4.1	**1.4 J**	<4.5	<4.7	<3.8	<4.3	<4.7	**450 D**	<3.7	<4.3
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	**81 D**	<3.5	<4.1	**1.4 J**	<4.5	<4.7	<3.8	<4.3	<4.7	**130 D**	<3.7	<4.3
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<95	<18	<21	<20	<23	<24	<20	<22	<24	<20	<19	<22
Aldrin	ug/kg	100	29	336.658824	37.57212	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<37	<35	<41	<39	<45	<47	<38	<43	<47	<39	<37	<43
Aroclor-1221	ug/kg	540	140	10,000	1,000	<380	<72	<83	<79	<91	<95	<78	<88	<96	<78	<76	<88
Aroclor-1232	ug/kg	540	140	10,000	1,000	<37	<35	<41	<39	<45	<47	<38	<43	<47	<39	<37	<43
Aroclor-1242	ug/kg	740	220	10,000	1,000	<37	<35	<41	<39	<45	<47	<38	<43	<47	<39	<37	<43
Aroclor-1248	ug/kg	740	220	10,000	1,000	<37	<35	<41	<39	<45	<47	<38	<43	<47	<39	<37	<43
Aroclor-1254	ug/kg	740	220	10,000	1,000	<37	<35	<41	<39	<45	<47	<38	<43	<47	<39	<37	<43
Aroclor-1260	ug/kg	740	220	10,000	1,000	<37	<35	<41	<39	<45	<47	<38	<43	<47	<39	<37	<43
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Delta-BHC	ug/kg	- -	- -	- -	- -	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Dieldrin	ug/kg	110	30	357.7	39.920378	<1.0	<3.5	**2.7 J**	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	**13**	<3.7	<4.3
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<19	<3.5	<4.1	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	<3.9	<3.7	<4.3
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<3.7	<3.5	<4.1	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	<3.9	<3.7	<4.3
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<3.7 J	<3.5	<4.1	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	<3.9	<3.7	<4.3
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<3.7	<3.5	<4.1	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	<3.9	<3.7	<4.3
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Heptachlor	ug/kg	380	110	194.614481	127.03229	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<9.5	<1.8	<2.1	<2.0	<2.3	<2.4	<2.0	<2.2	<2.4	<2.0	<1.9	<2.2
Isodrin	ug/kg	- -	- -	- -	- -	<3.7	<3.5	<4.1	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	<3.9	<3.7	<4.3
Kepone	ug/kg	170	49	- -	- -	<190	<180	<210	<200	<230	<240	<200	<220	<240	<200	<190	<220
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<3.7	<3.5	<4.1	<3.9	<4.5	<4.7	<3.8	<4.3	<4.7	<3.9	<3.7	<4.3
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<95	<18	<21	<20	<23	<24	<20	<22	<24	<20	<19	<22
Total PCBs	ug/kg	740	220	10,000	1,000	<37	<35	<41	<39	<45	<47	<38	<43	<47	<39	<37	<43
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<190	<180	<210	<200	<230	<240	<200	<220	<240	<200	<190	<220
Herbicides Method 8151																	
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<9.3	<8.8	<10	<9.8	<11	<12	<9.6	<11	<12	<9.6	<9.4	<11
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<9.3	<8.8	<10	<9.8 J	<11 J	<12 J	<9.6	<11	<12	<9.6	<9.4	<11
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<9.3	<8.8	<10	<9.8	<11	<12	<9.6	<11	<12	<9.6	<9.4	<11
Dioxathion/Dioxenethion Method 8310																	
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	<84.9	<84.2	<84.4	<85.2	<83.4	<84.5	<84.3	<83	<82	**160 J**	**110 J**	<0.508

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-28 (6-8) 6 - 8 03/21/12 AO-GP-28	SS-AO-GP-28 (24-26) 24 - 26 03/21/12 AO-GP-28	SS-AO-GP-29 (2-4) 2 - 4 03/26/12 AO-GP-29	SS-AO-GP-29 (6-8) 6 - 8 03/26/12 AO-GP-29	SS-AO-GP-29 (24-26) 24 - 26 03/26/12 AO-GP-29	SS-AO-GP-30 (2-4) 2 - 4 03/16/12 AO-GP-30	SS-AO-GP-30 (6-8) 6 - 8 03/16/12 AO-GP-30	SS-AO-GP-30 (19-21) 19 - 21 03/16/12 AO-GP-30	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-31 (4-6) 4 - 6 03/14/12 AO-GP-31	SS-AO-GP-31 (11-12) 11 - 12 03/14/12 AO-GP-31
Dioxenethion	ug/kg	- -	- -	- -	- -	**35.1**	**24.5**	<16.9	<17.1	<16.7	<16.9	**47.3**	**35.5**	**27.9**	**1,560 J**	**206**	<0.508
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	<84.9	<84.2	<84.4	<85.2	<83.4	<84.5	<84.3	<83	<82	**280 J**	<0.511	<0.508
Dioxins and Furans Method 8290																	
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**230 B**	<6.2 B	<6.5 B	**26**	<6.9 B	<7.6 B	**7.5**	**7.1**	**9.9**	**40**	**9.1**	**14**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	**44**	**0.28 J**	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**5.8 J**	<5.6	<6.8
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	**4.5 J**	<6.2	<6.5 B	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**0.42 J**	<5.6	<6.8
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	**2.3 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**0.37 J**	<5.6	<6.8
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**3.5 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**0.58 J**	<5.6	<6.8
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	**10 B**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**3.2 J**	**0.25 J**	**0.40 J**
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**2.4 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**1.3 J**	<5.6	<6.8
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	**5.8 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	**0.80 J**	**1.1 J**	**1.9 J**	**0.81 J**	**0.74 J**
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	**0.23 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	<6.2	<5.6	<6.8
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	<6.3 B	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**0.44 J**	<5.6	<6.8
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	**0.43 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	<6.2	<5.6	<6.8
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**2.5 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**0.41 J**	<5.6	<6.8
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	**1.1 J**	<6.2	<6.5	<5.6	<6.9	<7.6	<5.6	<6.7	<6.9	**0.62 J**	<5.6	<6.8
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	<1.3	<1.2	<1.3	<1.1	<1.4	<1.5	<1.1	<1.3	<1.4	<1.2	<1.1	<1.4
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	**0.29 J**	<1.2	<1.3	<1.1	<1.4	<1.5	<1.1	<1.3	<1.4	**0.97 J**	<1.1	<1.4
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	**95 B**	<12 B	<13	<11 BJ	<14	<15 J	<11	<13	<14	**6.6 J**	<11	<14
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**3,700 B**	**52 B**	**15 B**	**6,700 EJ**	<130 B	<53 B	**820 B**	**230 B**	**110 B**	**470 B**	**390 B**	**190 B**
Total Metals Method 6020																	
Antimony	mg/kg	410	31	81.66666667	31.28571429	<2.1	<2.1	<2.4	<2.2	<2.6	<2.7	<2.2	<2.5	<2.7	<2.2	<2.2	<2.4
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**3.3**	**0.74**	**2.0**	**1.9**	**0.33 J**	**2.7**	**1.2**	**0.39 J**	**1.2**	**1.7**	**0.35 J**	**2.9**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**39 J**	**8.8 J**	**110 J**	**39**	**13**	**110**	**35**	**25**	**110**	**45 J**	**22 J**	**140 J**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**0.22**	<0.10	**1.4**	**0.15**	<0.13	**1.1**	**0.13**	**0.062 J**	**1.7**	**0.12**	**0.10 J**	**0.65**
Cadmium	mg/kg	800	70	1,022	39.10714286	**0.053 J**	<0.10	**0.072 J**	<0.11	<0.13	**0.055 J**	<0.11	<0.12	**0.073 J**	**0.32**	<0.11	**0.090 J**
Chromium	mg/kg	- -	- -	- -	- -	**19 J**	**4.0 J**	**15 J**	**8.0**	**4.2**	**15**	**9.6**	**4.2**	**26**	**18**	**4.6**	**18**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**2.7 J**	**0.36 J**	**8.0 J**	**1.7**	**0.64**	**9.3**	**0.87**	**0.60**	**12**	**1.7 J**	**0.58 J**	**8.6 J**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**8.1 J**	**0.69 J**	**9.6 J**	**2.9**	**0.90 J**	**11**	**1.7**	**1.5**	**17**	**18**	**1.2**	**9.6**
Lead	mg/kg	800	400	1,700	400	**64**	**3.0**	**12**	**6.2 B**	**3.3 B**	**12 B**	**5.4**	**3.5**	**13**	**58**	**4.1**	**6.9**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**5.1 J**	**1.1 J**	**15 J**	**2.5**	**1.4**	**13**	**2.0**	**2.1**	**26**	**20**	**1.5**	**14**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	<1.0	<1.0	<1.2	<1.1	<1.3	<1.3	<1.1	<1.2	<1.3	<1.1	<1.1	<1.2
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	<0.21	<0.21	<0.24 B	<0.22	<0.26	<0.27	<0.22	<0.25	<0.27	<0.22	<0.22	<0.24
Thallium	mg/kg	10	0.78	143.08	5.475	<0.12 B	<0.21	**0.24**	**0.090 J**	<0.26	**0.31**	**0.093 J**	**0.081 J**	**0.47**	<0.22	<0.22	**0.27**
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	<21 J	<21 J	<24 J	<22	<26	<27	<22	<25	<27	<22	<22	<24
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**16 J**	**5.6 J**	**27 J**	**16**	**7.3**	**28**	**15 J**	**6.2 J**	**36 J**	**6.6**	**6.3**	**29**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**43**	**3.4 J**	**46**	**8.7**	**3.1 J**	**45**	**6.7 J**	**5.7 J**	**69 J**	**260 J**	**4.4 J**	**43 J**
Total Metals Method 7471																	
Mercury	mg/kg	43	10	61.25	10	**0.062**	<0.019	**0.020 J**	**0.011 J**	<0.024	**0.011 J**	**0.0089 J**	<0.023	<0.027	**0.093**	<0.021	<0.023
Cyanide																	
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	<0.55	<0.52	<0.61	<0.59	<0.66	<0.68	<0.57	<0.64	<0.69	<0.56	<0.55	<0.65
Sulfide																	
Sulfide	mg/kg	- -	- -	- -	- -	<60	<60	<63	<65	<80	<86	<63	<77	<77	<63	<68	<66
General Chemistry																	
Percent Moisture	%	- -	- -	- -	- -	**22.5**	**19.9**	**23.1**	**12.5**	**28.4**	**34.4**	**12.5**	**25.7**	**29.8**	**21.4**	**14.0**	**26.7**
Total Solids	% passing	- -	- -	- -	- -	**85.8**	**87.2**	**80**	**88.2**	**84.5**	**82.8**	**78.2**	**84.7**	**84.7**	**82.5**	**88.9**	**75.1**

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-32 (4-6) 4 - 6 03/13/12 AO-GP-32	SS-AO-GP-32 (8-10) 8 - 10 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-GP-33 (4-6) 4 - 6 03/13/12 AO-GP-33	SS-AO-GP-33 (14-16) 14 - 16 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07
VOCs Method 8260																	
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<9.0	<8.3	<9.5	<16	<8.9	<9.1	<12 [<11]	<10	<11	<11	<12	<11
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	**13 J**	<21	<24	<41	<22	<23	**14 J [11 J]**	**8.6 J**	**3.6 J**	<29	**25 J**	**9.9 J**
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<23	<21	<24	<41	<22	<23	<30 [<28]	<25	<28	<29	<31	<28
3-Chloropropene	ug/kg	3,400	680	- -	- -	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<23	<21	<24	<41	<22	<23	<30 [<28]	<25	<28	<29	<31	<28
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	R	<41	<47	**37 J**	<45	<46	**230 [180]**	**52**	**39 J**	**68**	**310**	**110**
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<180	<170	<190	<320	<180	<180	<240 [<220]	<200	<220	<230	<250	<220
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<90	<83	<95	<160	<89	<91	<120 [<110]	<100	<110	<110	<120	<110
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<90	<83	<95	<160	<89	<91	<120 [<110]	<100	<110	<110	<120	<110
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	**2.8 J [8.5]**	**0.83 J**	**0.86 J**	**3.2 J**	**4.7 J**	**3.2 J**
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	**2.0 J [<5.6]**	<5.0	<5.6	<5.7	<6.2	<5.6
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Chloroform	ug/kg	1,500	290	478.05952	312.047672	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Iodomethane	ug/kg	- -	- -	- -	- -	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<180	<170	<190	<320	<180	<180	<240 [<220]	<200	<220	<230	<250	<220
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<90	<83	<95	<160	<89	<91	<120 [<110]	<100	<110	<110	<120	<110
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<9.0	<8.3	<9.5	<16	<8.9	<9.1	<12 [<11]	<10	<11	<11	<12	<11
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<23	<21	<24	<41	<22	<23	<30 [<28]	<25	<28	<29	<31	<28
Propionitrile	ug/kg	- -	- -	- -	- -	<90	<83	<95	<160	<89	<91	<120 [<110]	<100	<110	<110	<120	<110
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [1.9 J]	**1.9 J**	<5.6	**1.2 J**	**1.5 J**	**1.4 J**
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<9.0	<8.3	<9.5	<16	<8.9	<9.1	<12 [<11]	<10	<11	<11	<12	<11
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<9.0	<8.3	<9.5	<16	<8.9	<9.1	<12 [<11]	<10	<11	<11	<12	<11

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-32 (4-6) 4 - 6 03/13/12 AO-GP-32	SS-AO-GP-32 (8-10) 8 - 10 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-GP-33 (4-6) 4 - 6 03/13/12 AO-GP-33	SS-AO-GP-33 (14-16) 14 - 16 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<4.5	<4.1	<4.7	<8.1	<4.5	<4.6	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2	<5.6
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<9.0	<8.3	<9.5	<16	<8.9	<9.1	<12 [<11]	<10	<11	<11	<12	<11
SVOCs Method 8270C																	
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	<38	<38	<40	<41	<38	<39	**13 J [9.1 J]**	<360	<380	<410	<390	<380
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<77	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	R	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
1-Naphthylamine	ug/kg	- -	- -	- -	- -	R	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<77	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<380	<380	<400	<410	<380	<390	<400 [<400]	<3,600	<3,800	<4,100	<3,900	<3,800
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	**13**	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2-Naphthylamine	ug/kg	960	270	- -	- -	R	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<200	<200	<200	<210	<190	<200	<210 [<200]	<1,800	<2,000	<2,100	<2,000	<2,000
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
2-Picoline	ug/kg	- -	- -	- -	- -	R	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	R	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	R	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<200 J	<200	<200	<210	<190	<200	<210 [<200]	<1,800	<2,000	<2,100	<2,000	<2,000
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<200	<200	<200	<210	<190	<200	<210 [<200]	<1,800	<2,000	<2,100	<2,000	<2,000
4-Aminobiphenyl	ug/kg	82	23	- -	- -	R	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<77 J	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<38	<38	<40	<41	<38	<39	**21 J [<40]**	<360	<380	<410	<390	<380
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<200 J	<200	<200	<210	<190	<200	<210 [<200]	<1,800	<2,000	<2,100	<2,000	<2,000
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<200	<200	<200	<210	<190	<200	<210 [<200]	<1,800	<2,000	<2,100	<2,000	<2,000
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<380	<380	<400	<410	<380	<390	<400 [<400]	<3,600	<3,800	<4,100	<3,900	<3,800
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	R	<950	<990	<1,000	<940	<990	<1,000 [<1,000]	<9,000	<9,700	<10,000	<9,900	<9,500
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<38 J	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	R	<7,700	<8,000	<8,400	<7,600	<8,000	<8,100 [<8,100]	<72,000	<78,000	<83,000	<80,000	<77,000
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-32 (4-6) 4 - 6 03/13/12 AO-GP-32	SS-AO-GP-32 (8-10) 8 - 10 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-GP-33 (4-6) 4 - 6 03/13/12 AO-GP-33	SS-AO-GP-33 (14-16) 14 - 16 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	**15 J**	**13 J**	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77
Aramite	ug/kg	69,000	19,000	- -	- -	<77	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	**42 J**	<78	<83	<80	**50 J**
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	**55 J**	<78	<83	**34 J**	**54 J**
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	**67 J**
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	**47 J**	<78	<83	<80	<77
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	**100**	<78	<83	**37 J**	**64 J**
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	<38	**11 J**	**8.2 J**	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	<13 B	<12 B	<14 B	<12 B	<9.7 B	<13 B	**14 J [9.1 J]**	**390 J**	**79 J**	<820	<780	<760
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	<7.8	<7.7	<8.0	**5.1 J**	<7.6	<8.0	<8.1 [<8.1]	**65 J**	<78	<83	**45 J**	**69 J**
Diallate	ug/kg	28,000	8,000	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Dimethoate	ug/kg	120,000	12,000	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<200	<200	<200	<210	<190	<200	<210 [<200]	<1,800	<2,000	<2,100	<2,000	<2,000
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<77	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
Diphenyl Ether	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	**44 [27 J]**	<360	<380	**180 J**	**140 J**	**260 J**
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<77 J	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Famphur	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<7.8	<7.7	<8.0	**7.1 J**	<7.6	<8.0	**5.1 J [<8.1]**	**98**	<78	<83	**43 J**	**64 J**
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<77	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	<20,000	<20,000	<20,000	<21,000	<19,000	<20,000	21,000 [<20,000	<180,000	<200,000	<210,000	<200,000	<200,000
Hexachloropropene	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	<7.8	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Isosafrole	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Methapyrilene	ug/kg	- -	- -	- -	- -	R	<7,700	<8,000	<8,400	<7,600	<8,000	<8,100 [<8,100]	<72,000	<78,000	<83,000	<80,000	<77,000
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	**16**	<7.7	<8.0	<8.4	<7.6	<8.0	<8.1 [<8.1]	<72	<78	<83	<80	<77
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<77 J	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-32 (4-6) 4 - 6 03/13/12 AO-GP-32	SS-AO-GP-32 (8-10) 8 - 10 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-GP-33 (4-6) 4 - 6 03/13/12 AO-GP-33	SS-AO-GP-33 (14-16) 14 - 16 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<77	<76	<79	<82	<75	<78	<80 [<79]	<710	<770	<820	<780	<760
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<200	<200	<200	<210	<190	<200	<210 [<200]	<1,800	<2,000	<2,100	<2,000	<2,000
Phenacetin	ug/kg	780,000	220,000	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	**3.5 J**	<7.7	<8.0	**4.4 J**	<7.6	<8.0	**3.6 J [<8.1]**	**39 J**	<78	<83	<80	<77
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Phorate	ug/kg	120,000	12,000	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	<7.8	<7.7	<8.0	**4.9 J**	<7.6	<8.0	<8.1 [<8.1]	**100**	<78	<83	**46 J**	**76 J**
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	R	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Safrole	ug/kg	7,800	520	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Sulfotep	ug/kg	310,000	31,000	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Thionazin	ug/kg	- -	- -	- -	- -	<38	<38	<40	<41	<38	<39	<40 [<40]	<360	<380	<410	<390	<380
Organochlorine Pest Method 8081																	
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9	<3.8
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	**2.5 Jp [3.7 Jp]**	**2.2 Jp**	<3.8	**4.2**	**5.4**	**7.3**
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	**12 [14]**	**16 p**	<3.8	**24**	**21 p**	<3.8
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<20	<20	<20	<21	<19	<20	<20 [<20]	<18	<20	<21	<20	<20
Aldrin	ug/kg	100	29	336.658824	37.57212	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	**1.8**	<2.0	<2.1	<2.0	<2.0
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0	<2.0
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<38	<38	<39	<41	<37	<39	<40 [<39]	<36	<38	<41	<39	<38
Aroclor-1221	ug/kg	540	140	10,000	1,000	<78	<77	<80	<83	<76	<80	<81 [<80]	<73	<78	<83	<79	<77
Aroclor-1232	ug/kg	540	140	10,000	1,000	<38	<38	<39	<41	<37	<39	<40 [<39]	<36	<38	<41	<39	<38
Aroclor-1242	ug/kg	740	220	10,000	1,000	<38	<38	<39	<41	<37	<39	<40 [<39]	<36	<38	<41	<39	<38
Aroclor-1248	ug/kg	740	220	10,000	1,000	<38	<38	<39	<41	<37	<39	<40 [<39]	<36	<38	<41	<39	<38
Aroclor-1254	ug/kg	740	220	10,000	1,000	<38	<38	<39	<41	<37	<39	<40 [<39]	**410**	<38	<41	<39	<38
Aroclor-1260	ug/kg	740	220	10,000	1,000	<38	<38	<39	<41	<37	<39	<40 [<39]	<36	<38	<41	<39	<38
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0	<2.0
Delta-BHC	ug/kg	- -	- -	- -	- -	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0	<2.0
Dieldrin	ug/kg	110	30	357.7	39.920378	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	**42**	<3.8	<4.1	<3.9	<3.8
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0	<2.0
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9	<3.8
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9	<3.8
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9	<3.8
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9	<3.8
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0	<2.0
Heptachlor	ug/kg	380	110	194.614481	127.03229	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0	<2.0
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<2.0	<2.0	<2.0	<2.1	<1.9	<2.0	<2.0 [<2]	**3.3 p**	<2.0	<2.1	<2.0	<2.0
Isodrin	ug/kg	- -	- -	- -	- -	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9	<3.8
Kepone	ug/kg	170	49	- -	- -	<200	<200	<200	<210	<190	<200	<200 [<200]	<180	<200	<210	<200	<200
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<3.8	<3.8	<3.9	<4.1	<3.7	<3.9	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9	<3.8
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<20	<20	<20	<21	<19	<20	<20 [<20]	<18	<20	<21	<20	<20
Total PCBs	ug/kg	740	220	10,000	1,000	<38	<38	<39	<41	<37	<39	<40 [<39]	**410**	<38	<41	<39	<38
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<200	<200	<200	<210	<190	<200	**310 p [700]**	<180	<200	**330 p**	**1,400**	**830 p**
Herbicides Method 8151																	
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<9.7	<9.5 H	<9.9 H	<10	<9.4 H	<9.8 H	<10 [<10]	<9.0	**3.3 JH**	<10	<9.8	<9.5
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<9.7 H	<9.5 H	<9.8 J	<10 H	<9.4 H	<9.8 J	<10 [<10]	<9.0	<9.5	<10	<9.8	<9.5
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<9.7 H	<9.6	<9.9 H	<10	<9.4	<9.8	<10 [<10]	<9.0	<9.6 H	<10	<9.8	<9.5
Dioxathion/Dioxenethion Method 8310																	
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	<82.5 J	**331 J**	**29.4**	**253 J**	**58.5**	**1,610 J**	<84.1 [175]	**192**	**107**	**269**	**303**	**1,570**

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-32 (4-6) 4 - 6 03/13/12 AO-GP-32	SS-AO-GP-32 (8-10) 8 - 10 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-GP-33 (4-6) 4 - 6 03/13/12 AO-GP-33	SS-AO-GP-33 (14-16) 14 - 16 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07
Dioxenethion	ug/kg	- -	- -	- -	- -	**33.3**	**23**	<0.506	**1,990**	**63.3**	<0.512	**234 [<17.1]**	**120**	**1,370**	<17	**193**	**50.9**
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**197 J**	<0.508	<0.506	**95**	<0.502	<0.512	<84.1 [336]	<84.5	**275**	**766**	**826**	<83.8
Dioxins and Furans Method 8290																	
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**53**	**10**	**3.8 J**	**260**	**82**	**18**	**110 [35]**	**150**	**86**	**120**	**110**	**410**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	**1.1 J**	<5.5	<6.1	**34**	<5.6	<6.0	**22 [<6.3]**	**38**	**16**	**20**	**19**	**100**
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	<6.0	<5.5	<6.1	**2.1 J**	<5.6	<6.0	<6.1 [<6.3]	**3.2 J**	**1.1 J**	**1.6 J**	**1.5 QJ**	**8.9**
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	<6.0	<5.5	<6.1	**1.3 J**	<5.6	<6.0	**1.3 QJ [1 J]**	**1.6 J**	**0.98 QJ**	**0.65 QJ**	**0.86 QJ**	**5.8**
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**0.19 J**	<5.5	<6.1	**2.6 J**	<5.6	<6.0	**2.0 QJ [<6.3]**	**5.0 J**	**2.7 QJ**	**1.7 J**	**2.5 J**	**10**
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	<6.0	<5.5	<6.1	**8.7**	**1.4 J**	<6.0	**8.1 [2.1 J]**	**7.0 J**	**3.3 QJ**	**13**	**6.9**	**18**
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.0	<5.5	<6.1	**2.9 J**	<5.6	<6.0	**9.2 Q [<6.3]**	**4.0 QJ**	**2.5 QJ**	**3.9 QJ**	**5.9 QJ**	**23 Q**
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	**0.67 J**	**1.9 J**	<6.1	**4.4 J**	**14**	**1.9 J**	**6.1 Q [1.9 J]**	**4.2 J**	**4.6 J**	**5.1 J**	**3.9 QJ**	**15**
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.0	<5.5	<6.1	<5.9	<5.6	<6.0	<6.1 [<6.3]	<11	<5.7	<5.9	<6.0	**0.53 QJ**
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	<6.0	<5.5	<6.1	**1.1 J**	<5.6	<6.0	**1.8 QJ [<6.3]**	**0.87 QJ**	**1.2 J**	**0.84 QJ**	**1.1 QJ**	**2.8 J**
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	<6.0	<5.5	<6.1	**0.42 J**	<5.6	<6.0	<6.1 [<6.3]	**0.62 QJ**	**0.76 QJ**	<5.9	<6.0	**1.6 J**
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<6.0	<5.5	<6.1	**1.1 J**	<5.6	<6.0	**2.3 J [<6.3]**	**2.1 J**	**1.3 QJ**	**0.61 J**	**1.6 J**	**5.6 J**
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	<6.0	<5.5	<6.1	**0.66 J**	<5.6	<6.0	**2.0 BJ [<6.3]**	**1.3 QBJ**	**1.1 BJ**	**0.46 QBJ**	**1.3 QBJ**	**2.3 BJ**
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	<1.2	<1.1	<1.2	<1.2	<1.1	<1.2	<1.2 [<1.3]	<2.1	<1.1	<1.2	<1.2	<1.2
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	<1.2	<1.1	<1.2	**0.90 J**	<1.1	<1.2	**0.58 QJ [<1.3]**	**1.4 QJ**	**0.48 QJ**	**0.57 QJ**	**0.92 J**	**0.97 J**
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	**3.7 J**	**0.25 J**	<12	**150**	<11	<12	**41 [<13]**	**58**	**36**	**57**	**47**	**210**
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**7,600 EJ**	**190 B**	**32 B**	**3,700 B**	**3,900 B**	**260 B**	**1,300 B [340 B]**	**1,800 B**	**1,200 B**	**1,600 B**	**1,600 B**	**3,300 B**
Total Metals Method 6020																	
Antimony	mg/kg	410	31	81.66666667	31.28571429	<2.2	<2.3	<2.2	<2.2	<2.1	<2.2	<2.3 [<2.2]	<2.0	<2.3	<2.3	<2.4	<2.2
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**3.0**	**0.44 J**	**0.90**	**2.2**	**0.22 J**	**1.8**	**1.5 [2.3]**	**1.7**	**1.6**	**0.99**	**3.4**	**5.6**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**46**	**18**	**100**	**40**	**22**	**50**	**30 [28]**	**42**	**37**	**20**	**48**	**50**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**0.35**	**0.10 J**	**0.95**	**0.18**	**0.14**	**0.55**	**0.12 [0.13]**	**0.078 J**	**0.20**	**0.094 J**	**0.098 J**	**0.15**
Cadmium	mg/kg	800	70	1,022	39.10714286	<0.11	<0.11	**0.093 J**	**0.22**	<0.10	<0.11	**0.13 [0.11]**	**0.33**	**0.23**	**0.029 J**	**0.27**	**0.11**
Chromium	mg/kg	- -	- -	- -	- -	**9.7 J**	**4.6 J**	**15 J**	**7.6 J**	**4.3 J**	**9.0 J**	**4.2 [5.5]**	**6.3**	**5.9**	**3.6**	**3.8**	**5.1**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**5.0 J**	**0.68 J**	**6.0 J**	**2.1 J**	**0.78 J**	**4.3 J**	**16 [12]**	**1.4**	**3.1**	**1.3**	**4.9**	**3.1**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**4.7**	**1.4**	**8.6**	**21**	**1.4**	**5.1**	**30 [32]**	**220**	**16**	**17**	**23**	**29**
Lead	mg/kg	800	400	1,700	400	**8.5 J**	**3.9 J**	**11 J**	**34 J**	**4.0 J**	**7.5 J**	**27 [31]**	**350**	**17**	**20**	**32**	**39**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**4.9**	**1.6**	**15**	**6.4**	**2.0**	**7.4**	**28 [24]**	**91**	**14**	**10**	**40**	**10**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	**0.67 J**	<1.1	**1.1**	<1.1	<1.0	<1.1	<1.2 [<1.1]	<1.0	<1.2	<1.1	<1.2	<1.1
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	<0.22	<0.23	<0.22	<0.22	<0.21	<0.22	<0.23 [<0.22]	<0.20	<0.23	<0.23	**0.14 J**	<0.22
Thallium	mg/kg	10	0.78	143.08	5.475	**0.18 J**	<0.23	**0.27**	**0.073 J**	**0.063 J**	**0.13 J**	<0.23 [<0.22]	**0.053 J**	**0.079 J**	<0.23	**0.059 J**	**0.075 J**
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	<22	<23	<22	<22	<21	<22	<23 [<22]	<20	<23	<23	<24	<22
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**18 J**	**6.0 J**	**22 J**	**9.9 J**	**7.3 J**	**15 J**	**6.2 [5.9]**	**4.0**	**5.5**	**3.5**	**5.2**	**9.6**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**17**	**4.5 J**	**41**	**78**	**5.0**	**21**	**34 [27]**	**68**	**59**	**11**	**63**	**42**
Total Metals Method 7471																	
Mercury	mg/kg	43	10	61.25	10	<0.022	<0.020	<0.022	**0.073**	<0.021	<0.022	**0.23 [0.25]**	**0.026**	**0.079**	**0.15**	**0.23**	**0.12**
Cyanide																	
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	<0.56	<0.58	<0.57	<0.60	<0.55	<0.57	<0.61 [<0.57]	<0.52	<0.57	<0.62	**0.48 J**	<0.57
Sulfide																	
Sulfide	mg/kg	- -	- -	- -	- -	<60	<60	<55	<60	<63	<61	<57 [<63]	<63	<62	<65	<54	**59**
General Chemistry																	
Percent Moisture	%	- -	- -	- -	- -	**18.0**	**13.0**	**18.8**	**19.1**	**13.8**	**17.9**	**20.1 [23.5]**	**7.1**	**13.8**	**18.2**	**20.2**	**14.1**
Total Solids	% passing	- -	- -	- -	- -	**75.3**	**87.7**	**80.1**	**84.5**	**88.4**	**81.7**	**80.9 [81.3]**	**94.3**	**85.1**	**82.6**	**74.8**	**84.8**

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
VOCs Method 8260						
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<6.0
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<6.0
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<6.0
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<6.0
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<6.0
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<6.0
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<6.0
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<12
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<6.0
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<6.0
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<6.0
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	**11 J**
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<6.0
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<30
3-Chloropropene	ug/kg	3,400	680	- -	- -	<6.0
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<30
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	**100**
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<240
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<120
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<120
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<6.0
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<6.0
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<6.0
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	<6.0
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	<6.0
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	<6.0
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<6.0
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<6.0
Chloroform	ug/kg	1,500	290	478.05952	312.047672	<6.0
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<6.0
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<6.0
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<6.0
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<6.0
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<6.0
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<6.0
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<6.0
Iodomethane	ug/kg	- -	- -	- -	- -	<6.0
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<240
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<120
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<12
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<6.0
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<30
Propionitrile	ug/kg	- -	- -	- -	- -	<120
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<6.0
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<6.0
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<6.0
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<6.0
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<6.0
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<12
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<6.0
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<6.0
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<12

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<6.0
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<12
SVOCs Method 8270C						
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	<410
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<410
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<410
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<410
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<830
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<410
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<410
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<410
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	<410
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<410
1-Naphthylamine	ug/kg	- -	- -	- -	- -	<830
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<410
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<410
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<410
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<410
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<410
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<830
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<4,100
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<410
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<410
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<410
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<410
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<410
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<410
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	<84
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<410
2-Naphthylamine	ug/kg	960	270	- -	- -	<830
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<2,100
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<410
2-Picoline	ug/kg	- -	- -	- -	- -	<830
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	<830
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	<830
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<410
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<2,100
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<2,100
4-Aminobiphenyl	ug/kg	82	23	- -	- -	<830
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<410
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<410
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<830
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<410
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<410
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<2,100
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<2,100
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<4,100
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	<10,000
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<410
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<410
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	<84,000
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<84
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<84

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<410
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	<830
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<84
Aramite	ug/kg	69,000	19,000	- -	- -	<830
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	**130**
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	**160**
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	**320**
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	**83 J**
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	<84
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	<410
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<410
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<410
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	**120 J**
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<410
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	**160**
Diallate	ug/kg	28,000	8,000	- -	- -	<410
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<84
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<410
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<410
Dimethoate	ug/kg	120,000	12,000	- -	- -	<410
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<410
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<2,100
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<410
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<830
Diphenyl Ether	ug/kg	- -	- -	- -	- -	<410
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<410
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<830
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<410
Famphur	ug/kg	- -	- -	- -	- -	<410
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	**220**
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<84
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<410
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<410
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<830
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<410
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	<210,000
Hexachloropropene	ug/kg	- -	- -	- -	- -	<410
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	**68 J**
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<410
Isosafrole	ug/kg	- -	- -	- -	- -	<410
Methapyrilene	ug/kg	- -	- -	- -	- -	<84,000
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<410
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<410
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	<84
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<410
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<830
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<410
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<410
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<410
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<410
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<410
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<410
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<410
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<410

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<830
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<410
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<410
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<410
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<410
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<2,100
Phenacetin	ug/kg	780,000	220,000	- -	- -	<410
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	**96**
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<410
Phorate	ug/kg	120,000	12,000	- -	- -	<410
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<410
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	**270**
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	<410
Safrole	ug/kg	7,800	520	- -	- -	<410
Sulfotep	ug/kg	310,000	31,000	- -	- -	<410
Thionazin	ug/kg	- -	- -	- -	- -	<410
Organochlorine Pest Method 8081						
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	<21
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	**94 D**
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	**190 D**
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<21
Aldrin	ug/kg	100	29	336.658824	37.57212	<11
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<2.1
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<210
Aroclor-1221	ug/kg	540	140	10,000	1,000	<84
Aroclor-1232	ug/kg	540	140	10,000	1,000	<210
Aroclor-1242	ug/kg	740	220	10,000	1,000	<41
Aroclor-1248	ug/kg	740	220	10,000	1,000	<41
Aroclor-1254	ug/kg	740	220	10,000	1,000	<210
Aroclor-1260	ug/kg	740	220	10,000	1,000	<210
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<11
Delta-BHC	ug/kg	- -	- -	- -	- -	<11
Dieldrin	ug/kg	110	30	357.7	39.920378	**25 D**
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<11
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<21
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<21
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<4.1
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<21
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<2.1
Heptachlor	ug/kg	380	110	194.614481	127.03229	<11
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<2.1
Isodrin	ug/kg	- -	- -	- -	- -	<21
Kepone	ug/kg	170	49	- -	- -	<210
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<21
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<110
Total PCBs	ug/kg	740	220	10,000	1,000	<41
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<210
Herbicides Method 8151						
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<10
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<10
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<10
Dioxathion/Dioxenethion Method 8310						
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**712**

Table A-3. Summary of Soil Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
Dioxenethion	ug/kg	- -	- -	- -	- -	**260**
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**300**
Dioxins and Furans Method 8290						
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**2,800**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	**510**
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	**43**
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	**18 J**
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**16 J**
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	**78**
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**83 Q**
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	**50 Q**
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	<31
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	**5.5 J**
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	<31
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**8.2 QJ**
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	<31
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	<6.1
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	<6.1
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	**1,400**
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**21,000 B**
Total Metals Method 6020						
Antimony	mg/kg	410	31	81.66666667	31.28571429	**1.1 J**
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**3.1**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**100**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**0.21**
Cadmium	mg/kg	800	70	1,022	39.10714286	**0.54**
Chromium	mg/kg	- -	- -	- -	- -	**9.2**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**2.3**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**28**
Lead	mg/kg	800	400	1,700	400	**220**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**8.6**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	<1.1
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	**0.20 J**
Thallium	mg/kg	10	0.78	143.08	5.475	**0.097 J**
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	**11 J**
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**7.8**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**190**
Total Metals Method 7471						
Mercury	mg/kg	43	10	61.25	10	**0.20**
Cyanide						
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	<0.62
Sulfide						
Sulfide	mg/kg	- -	- -	- -	- -	<75
General Chemistry						
Percent Moisture	%	- -	- -	- -	- -	**18.9**
Total Solids	% passing	- -	- -	- -	- -	**82.5**

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

ARCADIS

Appendix A-4

Summary of Soil Analytical Results,
Ecological Comparison Criteria,
Phase I Activities

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27
VOCs Method 8260											
1,1,1,2-Tetrachloroethane	225,000	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,1,1-Trichloroethane	29,800	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,1,2,2-Tetrachloroethane	127	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,1,2-Trichloroethane	28,600	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,1-Dichloroethane	20,100	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,1-Dichloroethene	8,280	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,2,3-Trichloropropane	3,360	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,2-Dibromo-3-chloropropane	35.2	ug/kg	<8.9	<9.8	<9.5 *	<8.2	<9.8	<10	<8.6	<14	<11
1,2-Dibromoethane	1,230	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,2-Dichloroethane	400	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
1,2-Dichloropropane	700,000	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
2-Butanone	89,600	ug/kg	<22	**16 J**	**19 J***	**4.4 J**	**13 J**	**3.0 J**	**4.5 J**	**11 J**	<27
2-Chloro-1,3-butadiene	- -	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
2-Hexanone	12,600	ug/kg	<22	<24	<24 *	<21	<25	<25	<22	<35	<27
3-Chloropropene	- -	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
4-Methyl-2-pentanone	443,000	ug/kg	<22	<24	<24	<21	<25	<25	<22	<35	<27
Acetone	2,500	ug/kg	<45 B	<160 B	**180 ***	**63**	**200**	**40 J**	**60**	**140**	**25 J**
Acetonitrile	1,370	ug/kg	<180	<200	<190	<160	<200	<200	<170	<280	<210
Acrolein	5,270	ug/kg	<89	<98	<95	<82	<98	<100	<86	<140	<110
Acrylonitrile	1,000,000	ug/kg	<89	<98	<95	<82	<98	<100	<86	<140	<110
Benzene	50	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Bromodichloromethane	540	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Bromoform	15,900	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Bromomethane	235	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Carbon Disulfide	94.12	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Carbon Tetrachloride	100	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Chlorobenzene	50	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Chloroethane	- -	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Chloroform	1	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Chloromethane	10,400	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
cis-1,3-Dichloropropene	398	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Dibromochloromethane	2,050	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Dibromomethane	65,000	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Dichlorodifluoromethane	39,500	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Ethyl Methacrylate	30,000	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Ethylbenzene	50	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Iodomethane	- -	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Isobutanol	20,800	ug/kg	<180	<200	<190	<160	<200	<200	<170	<280	<210
Methacrylonitrile	57	ug/kg	<89	<98	<95	<82	<98	<100	<86	<140	<110
Methyl Methacrylate	- -	ug/kg	<8.9	<9.8	<9.5	<8.2	<9.8	<10	<8.6	<14	<11
Methylene Chloride	2,000	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Pentachloroethane	- -	ug/kg	<22	<24	<24	<21	<25	<25	<22	<35	<27
Propionitrile	- -	ug/kg	<89	<98	<95	<82	<98	<100	<86	<140	<110
Styrene	100	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Tetrachloroethene	10	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Toluene	50	ug/kg	**1.2 J**	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
trans-1,2-Dichloroethene	784	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
trans-1,3-Dichloropropene	398	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
trans-1,4-Dichloro-2-butene	- -	ug/kg	<8.9	<9.8	<9.5	<8.2	<9.8	<10	<8.6	<14	<11
Trichloroethene	1	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Trichlorofluoromethane	16,400	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3
Vinyl Acetate	12,700	ug/kg	<8.9	<9.8	<9.5	<8.2	<9.8	<10	<8.6	<14	<11
Vinyl Chloride	10	ug/kg	<4.5	<4.9	<4.7	<4.1	<4.9	<5.1	<4.3	<7.0	<5.3

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27
Xylenes (total)	50	ug/kg	<8.9	<9.8	<9.5	<8.2	<9.8	<10	<8.6	<14	<11
SVOCs Method 8270C											
1,1'-Biphenyl	60,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,2,4,5-Tetrachlorobenzene	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,2,4-Trichlorobenzene	11,100	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,2-Dichlorobenzene	2,960	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,3,5-Trinitrobenzene	376	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
1,3-Dichlorobenzene	37,700	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,3-Dinitrobenzene	655	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,4-Dichlorobenzene	546	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,4-Dioxane	2,050	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1,4-Naphthoquinone	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
1-Naphthylamine	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
2,2'-Oxybis(1-Chloropropane)	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2,3,4,6-Tetrachlorophenol	199	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2,4,5-Trichlorophenol	4,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2,4,6-Trichlorophenol	10,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2,4-Dichlorophenol	87,500	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2,4-Dimethylphenol	10	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
2,4-Dinitrophenol	20,000	ug/kg	<400	<410	<3,800	<370	<400	<400	<380	<430	<4,000 J
2,4-Dinitrotoluene	1,280	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2,6-Dichlorophenol	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2,6-Dinitrotoluene	32.8	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2-Acetylaminofluorene	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2-Chloronaphthalene	12.2	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2-Chlorophenol	243	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2-Methylnaphthalene	3,240	ug/kg	<8.1	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
2-Methylphenol	40,400	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2-Naphthylamine	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
2-Nitroaniline	74,100	ug/kg	<210	<210	<1,900	<190	<200	<210	<190	<220	<2,100 J
2-Nitrophenol	1,600	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
2-Picoline	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
3,3'-Dichlorobenzidine	646	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
3,3'-Dimethylbenzidine	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
3-Methylcholanthrene	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
3-Nitroaniline	3,160	ug/kg	<210	<210	<1,900	<190	<200	<210	<190	<220	<2,100 J
4,6-Dinitro-2-methylphenol	- -	ug/kg	<210	<210	<1,900	<190	<200	<210	<190	<220	<2,100 J
4-Aminobiphenyl	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
4-Bromophenyl-phenylether	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
4-Chloro-3-Methylphenol	7,950	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
4-Chloroaniline	1,100	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
4-Chlorophenyl-phenylether	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
4-Methylphenol	163,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
4-Nitroaniline	21,900	ug/kg	<210	<210	<1,900	<190	<200	<210	<190	<220	<2,100 J
4-Nitrophenol	7,000	ug/kg	<210	<210	<1,900	<190	<200	<210	<190	<220	<2,100 J
4-Nitroquinoline-1-oxide	- -	ug/kg	<400	<410	<3,800	<370	<400	<400	<380	<430	<4,000 J
4-Phenylenediamine	6,160	ug/kg	R	R	<9,500 *	<940 *	<1,000	<1,000	R	<1,100 *	<10,000 J
5-Nitro-o-toluidine	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
7,12-Dimethylbenz(a)anthracene	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
a,a'-Dimethylphenethylamine	- -	ug/kg	<8,100	<8,300	<76,000	<7,600	<8,000	<8,100	<7,700	<8,800	<82,000 J
Acenaphthene	20,000	ug/kg	**4.2 J**	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Acenaphthylene	682,000	ug/kg	<8.1	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Acetophenone	300,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Aniline	56.8	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27
Anthracene	100	ug/kg	**5.0 J**	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Aramite	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
Benzo(a)anthracene	5,210	ug/kg	<8.1	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Benzo(a)pyrene	100	ug/kg	<8.1	<8.3	<76	**5.1 J**	<8.0	<8.1	<7.7	<8.8	<82 J
Benzo(b)fluoranthene	59,800	ug/kg	**4.8 J**	<8.3	<76	**6.2 J**	<8.0	<8.1	<7.7	<8.8	<82 J
Benzo(g,h,i)perylene	119,000	ug/kg	<8.1	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Benzo(k)fluoranthene	148,000	ug/kg	<8.1	<8.3	**40 J**	**3.6 J**	<8.0	<8.1	<7.7	<8.8	<82 J
Benzyl Alcohol	65,800	ug/kg	**8.0 J**	**9.8 J**	<380	<37	<40	<40	<38	<43	<400 J
bis(2-Chloroethoxy)methane	302	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
bis(2-Chloroethyl)ether	23,700	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
bis(2-Ethylhexyl)phthalate	100	ug/kg	<80 B	<82 B	<750	**180**	**12 J**	**11 J**	**690**	**9.8 J**	<800 J
Butylbenzylphthalate	238.89	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Chrysene	4,730	ug/kg	**4.8 J**	<8.3	<76	**5.0 J**	<8.0	<8.1	<7.7	<8.8	<82 J
Diallate	452	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Dibenzo(a,h)anthracene	18,400	ug/kg	<8.1	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Dibenzofuran	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Diethylphthalate	100,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Dimethoate	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Dimethylphthalate	200,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Di-n-Butylphthalate	200,000	ug/kg	<210	<210	<1,900	<190	<200	<210	<190	<220	<2,100 J
Di-n-Octylphthalate	709,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Dinoseb	21.8	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
Diphenyl Ether	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Disulfoton	19.9	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Ethyl Methanesulfonate	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
Ethyl Parathion	0.34	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Famphur	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Fluoranthene	100	ug/kg	**10**	<8.3	<76	**5.2 J**	**5.4 J**	**4.3 J**	<7.7	<8.8	<82 J
Fluorene	122,000	ug/kg	**5.2 J**	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Hexachlorobenzene	2.5	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Hexachlorobutadiene	39.8	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Hexachlorocyclopentadiene	10,000	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
Hexachloroethane	596	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Hexachlorophene	- -	ug/kg	<21,000	<21,000	<190,000 *	<19,000 *	<20,000	<21,000	R	<22,000 *	<210,000 J
Hexachloropropene	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Indeno(1,2,3-cd)pyrene	109,000	ug/kg	<8.1	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Isophorone	139,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Isosafrole	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Methapyrilene	- -	ug/kg	<8,100	<8,300	<76,000	<7,600	<8,000	<8,100	<7,700	<8,800	<82,000 J
Methyl Methanesulfonate	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Methyl Parathion	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Naphthalene	100	ug/kg	<8.1	<8.3	<76	<7.6	<8.0	<8.1	<7.7	<8.8	<82 J
Nitrobenzene	40,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitrosodiethylamine	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
N-Nitrosodimethylamine	0.0321	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitroso-di-n-butylamine	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitroso-di-n-propylamine	544	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitrosodiphenylamine	20,000	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitrosomethylethylamine	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitrosomorpholine	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitrosopiperidine	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
N-Nitrosopyrrolidine	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
o,o,o-Triethylphosphorothioate	- -	ug/kg	<80	<82	<750	<75	<79	<80	<76	<86	<800 J
o-Toluidine	2,970	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27
p-Dimethylaminoazobenzene	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Pentachlorobenzene	2.5	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Pentachloronitrobenzene	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Pentachlorophenol	2	ug/kg	<210	<210	<1,900	<190	<200	<210	<190	<220	<2,100 J
Phenacetin	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Phenanthrene	100	ug/kg	**12**	<8.3	<76	**3.8 J**	<8.0	<8.1	<7.7	<8.8	<82 J
Phenol	50	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Phorate	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Pronamide	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Pyrene	100	ug/kg	**7.3 J**	<8.3	<76	**6.1 J**	**4.2 J**	<8.1	<7.7	<8.8	<82 J
Pyridine	100	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Safrole	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Sulfotep	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Thionazin	- -	ug/kg	<40	<41	<380	<37	<40	<40	<38	<43	<400 J
Organochlorine Pest Method 8081											
4,4'-DDD	2.5	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	<4.0	<3.8	<4.3	<4.0
4,4'-DDE	2.5	ug/kg	<4.0	<4.1	**17**	**1.4 J**	**1.3 Jp**	**3.6 J**	<3.8	**3.5 J**	<4.0
4,4'-DDT	2.5	ug/kg	<4.0	<4.1	**7.1**	**1.8 Jp**	**5.6**	**8.5**	<3.8	**1.2 Jp**	**2.2 J**
4-Chlorobenzilate	- -	ug/kg	<20	<21	<19	<19	<20	<21	<19	<22	<21
Aldrin	2.5	ug/kg	<2.0	<2.1	<1.9	<1.9	<2.0	<2.1	<1.9	<2.2	<2.1
Alpha-BHC	2.5	ug/kg	<2.0	<2.1	<1.9	<1.9	<2.0	<2.1	<1.9	<2.2	<2.1
Aroclor-1016	- -	ug/kg	<40	<41	<38	<37	<40	<40	<38	<43	<40
Aroclor-1221	- -	ug/kg	<81	<83	<76	<76	<80	<81	<76	<88	<81
Aroclor-1232	- -	ug/kg	<40	<41	<38	<37	<40	<40	<38	<43	<40
Aroclor-1242	- -	ug/kg	<40	<41	<38	<37	<40	<40	<38	<43	<40
Aroclor-1248	- -	ug/kg	<40	<41	<38	<37	<40	<40	<38	<43	<40
Aroclor-1254	- -	ug/kg	<40	<41	<38	<37	<40	<40	<38	<43	<40
Aroclor-1260	- -	ug/kg	<40	<41	<38	<37	<40	<40	<38	<43	<40
Beta-BHC	1	ug/kg	<2.0	<2.1	<1.9	<1.9	<2.0	<2.1	<1.9	<2.2	<2.1
Delta-BHC	9,940	ug/kg	<2.0	<2.1	<1.9	**0.28 Jp**	<2.0	<2.1	<1.9	<2.2	<2.1
Dieldrin	0.28	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	**1.2 Jp**	<3.8	<4.3	<4.0
Endosulfan I	119	ug/kg	<2.0	<2.1	<1.9	<1.9	<2.0	<2.1	<1.9	<2.2	<2.1
Endosulfan II	119	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	<4.0	<3.8	<4.3	<4.0
Endosulfan Sulfate	3.58	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	<4.0	<3.8	<4.3	<4.0
Endrin	1	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	<4.0	<3.8	<4.3	<4.0
Endrin Aldehyde	10.5	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	<4.0	<3.8	<4.3	<4.0
Gamma-BHC (Lindane)	0.05	ug/kg	<2.0	<2.1	<1.9	<1.9	<2.0	<2.1	<1.9	<2.2	<2.1
Heptachlor	5.98	ug/kg	<2.0	<2.1	<1.9	<1.9	<2.0	<2.1	<1.9	<2.2	<2.1
Heptachlor Epoxide	152	ug/kg	<2.0	<2.1	<1.9	<1.9	<2.0	<2.1	<1.9	<2.2	<2.1
Isodrin	- -	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	<4.0	<3.8	<4.3	<4.0
Kepone	- -	ug/kg	<200	<210	<190	<190	<200	<210	<190	<220	<210
Methoxychlor	19.9	ug/kg	<4.0	<4.1	<3.8	<3.7	<4.0	<4.0	<3.8	<4.3	<4.0
Technical Chlordane	224	ug/kg	<20	<21	<19	<19	<20	<21	<19	<22	<21
Total PCBs	20	ug/kg	<40	<41	<38	<37	<40	<40	<38	<43	<40
Toxaphene	- -	ug/kg	<200	<210	<190	<190	<200	**160 J**	<190	<220	<210
Herbicides Method 8151											
2,4,5-T	- -	ug/kg	<9.9	<10	<9.5	<9.3	<10	<10	<9.5	<11	<10
2,4,5-TP	- -	ug/kg	<9.9	<10	<9.5	<9.3	<10	<10	<9.5	<11	<10 J
2,4-D	272	ug/kg	<9.9	<10	<9.5	<9.3	<10	<10	<9.5	<11	<10 H
Dioxathion/Dioxenethion Method 8310											
cis-Dioxathion	- -	ug/kg	<85.4	<85.1	<84.3	**177**	<84.8	**113**	**485**	<84.8	**111 J**
Dioxenethion	- -	ug/kg	**316**	**648 J**	<16.9	<17	**327**	**1,870**	**54.6**	**96.7**	**1,460**
trans-Dioxathion	- -	ug/kg	**508**	<85.1	<84.3	**210**	**258**	**384**	<84.5	**412**	**224**
Dioxins and Furans Method 8290											

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-03 (0-2) 0 - 2 03/14/12 AO-GP-03	SS-AO-GP-04 (0-2) 0 - 2 03/14/12 AO-GP-04	SS-AO-GP-19 (0-2) 0 - 2 03/15/12 AO-GP-19	SS-AO-GP-20 (0-2) 0 - 2 03/19/12 AO-GP-20	SS-AO-GP-22 (0-2) 0 - 2 03/19/12 AO-GP-21	SS-AO-GP-23 (0-2) 0 - 2 03/19/12 AO-GP-23	SS-AO-GP-24 (0-2) 0 - 2 03/16/12 AO-GP-24	SS-AO-GP-26 (0-1.5) 0 - 1.5 03/20/12 AO-GP-26	SS-AO-GP-27 (0-2) 0 - 2 03/13/12 AO-GP-27
1,2,3,4,6,7,8-HpCDD	- -	pg/g	**71**	**89**	**55**	**160**	**11**	**29**	**9.2**	**26**	**26 J**
1,2,3,4,6,7,8-HpCDF	- -	pg/g	**6.1**	**6.3**	**6.9**	**16**	**0.30 QJ**	**4.9 J**	**0.30 J**	**2.6 J**	**4.0 J**
1,2,3,4,7,8,9-HpCDF	- -	pg/g	**0.36 J**	**0.22 J**	**0.45 J**	**1.2 QJ**	<6.0	<5.6	<6.2	<6.0	**0.61 J**
1,2,3,4,7,8-HxCDD	- -	pg/g	**0.88 J**	**1.2 J**	**0.66 QJ**	**2.5 J**	<6.0	**0.31 QJ**	<6.2	**0.36 QJ**	<5.6 J
1,2,3,4,7,8-HxCDF	- -	pg/g	**0.28 J**	**0.17 J**	**0.85 J**	**1.5 J**	<6.0	**1.2 J**	<6.2	<6.0	**0.35 J**
1,2,3,6,7,8-HxCDD	- -	pg/g	**2.3 J**	**37**	**2.6 J**	**5.2 J**	<6.0	**0.95 J**	<6.2	**0.98 J**	**0.89 J**
1,2,3,6,7,8-HxCDF	- -	pg/g	**0.25 J**	**0.36 J**	**1.3 QJ**	**5.2 J**	<6.0	**4.3 QJ**	<6.2	**1.4 J**	**0.33 J**
1,2,3,7,8,9-HxCDD	- -	pg/g	**4.0 J**	**19**	**2.1 J**	**5.6 C**	**0.29 J**	**1.1 J**	<6.2	**0.73 J**	**0.74 J**
1,2,3,7,8,9-HxCDF	- -	pg/g	<5.5	<5.6	<5.5	<5.5	<6.0	<5.6	<6.2	<6.0	<5.6 J
1,2,3,7,8-PeCDD	- -	pg/g	**0.54 J**	**2.6 J**	**0.59 QJ**	**1.4 QJ**	<6.0	**0.72 QJ**	<6.2	<6.0	<5.6 J
1,2,3,7,8-PeCDF	- -	pg/g	<5.5	<5.6	**0.46 J**	**0.25 QJ**	<6.0	<5.6	<6.2	<6.0	<5.6 J
2,3,4,6,7,8-HxCDF	- -	pg/g	**0.27 J**	**0.33 J**	**0.58 QJ**	**0.62 QJ**	<6.0	**0.69 QJ**	<6.2	<6.0	<5.6 J
2,3,4,7,8-PeCDF	- -	pg/g	**0.11 J**	<5.6	**0.36 QJ**	<5.5	<6.0	**0.54 QJ**	<6.2	<6.0	<5.6 J
2,3,7,8-TCDD	0.199	pg/g	<1.1	<1.1	<1.1	**0.99 QJ**	<1.2	<1.1	<1.2	<1.2	<1.1 J
2,3,7,8-TCDF	- -	pg/g	**0.25 J**	<1.1	**0.53 QJ**	**0.69 QJ**	<1.2	<1.1	<1.2	<1.2	<1.1 J
Octachlorodibenzofuran	- -	pg/g	**15**	**17**	**8.0 J**	**41**	<12	**5.0 J**	<12	**6.4 J**	**25 J**
Octachlorodibenzo-p-Dioxin	- -	pg/g	**1,200 B**	**1,200 B**	**5,600 BE**	**2,200 B**	**590 B**	**590 B**	**910 B**	**900 B**	**1,100 J**
Total Metals Method 6020											
Antimony	0.29	mg/kg	<2.2	<2.4	<2.1	<2.2	<2.2	<2.3	<2.2	<2.5	<2.4
Arsenic	10	mg/kg	**2.0**	**5.0**	**3.8**	**2.9**	**1.2**	**2.4**	**2.1**	**2.5**	**2.9**
Barium	330	mg/kg	**34 J**	**48 J**	**38**	**48**	**36**	**49**	**28**	**92**	**110**
Beryllium	36	mg/kg	**0.20**	**0.32**	**0.17**	**0.21**	**0.13**	**0.22**	**0.11**	**0.32**	**0.62**
Cadmium	0.38	mg/kg	**0.035 J**	**0.042 J**	**0.028 J**	**0.090 J**	**0.13**	**0.17**	**0.039 J**	**0.085 J**	**0.032 J**
Chromium	0.4	mg/kg	**5.7**	**14**	**10**	**8.4**	**3.4**	**8.2**	**5.2**	**6.5**	**18 J**
Cobalt	13	mg/kg	**1.8 J**	**2.6 J**	**2.0**	**1.9**	**1.6**	**2.9**	**1.8**	**3.1**	**4.1 J**
Copper	40	mg/kg	**2.4**	**7.8**	**5.3**	**6.3**	**12**	**15**	**8.1**	**13**	**13**
Lead	16	mg/kg	**8.3**	**8.8**	**9.2**	**16**	**21**	**50**	**33**	**36**	**14 J**
Nickel	30	mg/kg	**2.5**	**6.2**	**6.9**	**8.7**	**10**	**36**	**3.0**	**5.5**	**9.1**
Selenium	0.81	mg/kg	<1.1	<1.2	<1.0	<1.1	<1.1	<1.2	<1.1	**0.68 J**	<1.2
Silver	2	mg/kg	<0.22	<0.24	<0.21	<0.22	**0.29**	**0.22 J**	<0.22	<0.25	<0.24
Thallium	1	mg/kg	**0.064 J**	**0.084 J**	**0.13 J**	**0.11 J**	<0.22	**0.12 J**	**0.066 J**	**0.12 J**	**0.24**
Tin	53	mg/kg	<22	<24	<21	<22	<22	<23	<22	<25	<24
Vanadium	2	mg/kg	**11**	**19**	**19**	**14**	**3.9**	**8.8**	**8.2 J**	**11**	**26 J**
Zinc	50	mg/kg	**17 J**	**17 J**	**27**	**40**	**41**	**65**	**26 J**	**26**	**31**
Total Metals Method 7471											
Mercury	0.1	mg/kg	**0.014 J**	**0.016 J**	**0.035**	**0.029**	**0.84**	**1.5**	**0.077**	**0.057**	**0.027**
Cyanide											
Cyanide	0.9	mg/kg	<0.59	<0.62	<0.55	<0.54	<0.59	<0.58	**0.36 J**	<0.63	<0.58
Sulfide											
Sulfide	- -	mg/kg	<70	<57	<61	<57	<65	<60	<69	<63	<61
General Chemistry											
Percent Moisture	- -	%	**13.3**	**13.9**	**12.3**	**13.3**	**20.2**	**12.5**	**22.0**	**20.0**	**15.2**
Total Solids	- -	% passing	**88.8**	**80.1**	**84.6**	**82.9**	**84.2**	**86.4**	**80.5**	**78**	**82.2**

VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: / Sample Depth(ft): / Date Collected: / Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06
VOCs Method 8260											
1,1,1,2-Tetrachloroethane	225,000	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,1,1-Trichloroethane	29,800	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,1,2,2-Tetrachloroethane	127	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,1,2-Trichloroethane	28,600	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,1-Dichloroethane	20,100	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,1-Dichloroethene	8,280	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,2,3-Trichloropropane	3,360	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,2-Dibromo-3-chloropropane	35.2	ug/kg	<8.5	<9.3	<9.0	<16	<12 [<11]	<10	<11	<11	<12
1,2-Dibromoethane	1,230	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,2-Dichloroethane	400	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
1,2-Dichloropropane	700,000	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
2-Butanone	89,600	ug/kg	**14 J**	<23	**13 J**	<41	**14 J [11 J]**	**8.6 J**	**3.6 J**	<29	**25 J**
2-Chloro-1,3-butadiene	- -	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
2-Hexanone	12,600	ug/kg	<21	<23	<23	<41	<30 [<28]	<25	<28	<29	<31
3-Chloropropene	- -	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
4-Methyl-2-pentanone	443,000	ug/kg	<21	<23	<23	<41	<30 [<28]	<25	<28	<29	<31
Acetone	2,500	ug/kg	**140 J**	<68 B	R	**37 J**	**230 [180]**	**52**	**39 J**	**68**	**310**
Acetonitrile	1,370	ug/kg	<170	<190	<180	<320	<240 [<220]	<200	<220	<230	<250
Acrolein	5,270	ug/kg	<85	<93	<90	<160	<120 [<110]	<100	<110	<110	<120
Acrylonitrile	1,000,000	ug/kg	<85	<93	<90	<160	<120 [<110]	<100	<110	<110	<120
Benzene	50	ug/kg	<4.3	<4.7	<4.5	<8.1	**2.8 J [8.5]**	**0.83 J**	**0.86 J**	**3.2 J**	**4.7 J**
Bromodichloromethane	540	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Bromoform	15,900	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Bromomethane	235	ug/kg	**1.9 J**	<4.7	<4.5	<8.1	**2.0 J [<5.6]**	<5.0	<5.6	<5.7	<6.2
Carbon Disulfide	94.12	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Carbon Tetrachloride	100	ug/kg	**110 J**	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Chlorobenzene	50	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Chloroethane	- -	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Chloroform	1	ug/kg	**27**	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Chloromethane	10,400	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
cis-1,3-Dichloropropene	398	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Dibromochloromethane	2,050	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Dibromomethane	65,000	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Dichlorodifluoromethane	39,500	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Ethyl Methacrylate	30,000	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Ethylbenzene	50	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Iodomethane	- -	ug/kg	**7.0**	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Isobutanol	20,800	ug/kg	<170	<190	<180	<320	<240 [<220]	<200	<220	<230	<250
Methacrylonitrile	57	ug/kg	<85	<93	<90	<160	<120 [<110]	<100	<110	<110	<120
Methyl Methacrylate	- -	ug/kg	<8.5	<9.3	<9.0	<16	<12 [<11]	<10	<11	<11	<12
Methylene Chloride	2,000	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Pentachloroethane	- -	ug/kg	<21	<23	<23	<41	<30 [<28]	<25	<28	<29	<31
Propionitrile	- -	ug/kg	<85	<93	<90	<160	<120 [<110]	<100	<110	<110	<120
Styrene	100	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Tetrachloroethene	10	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Toluene	50	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [1.9 J]	**1.9 J**	<5.6	**1.2 J**	**1.5 J**
trans-1,2-Dichloroethene	784	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
trans-1,3-Dichloropropene	398	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
trans-1,4-Dichloro-2-butene	- -	ug/kg	<8.5	<9.3	<9.0	<16	<12 [<11]	<10	<11	<11	<12
Trichloroethene	1	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Trichlorofluoromethane	16,400	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2
Vinyl Acetate	12,700	ug/kg	<8.5	<9.3	<9.0	<16	<12 [<11]	<10	<11	<11	<12
Vinyl Chloride	10	ug/kg	<4.3	<4.7	<4.5	<8.1	<6.1 [<5.6]	<5.0	<5.6	<5.7	<6.2

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06
Xylenes (total)	50	ug/kg	<8.5	<9.3	<9.0	<16	<12 [<11]	<10	<11	<11	<12
SVOCs Method 8270C											
1,1'-Biphenyl	60,000	ug/kg	**900 J**	**89 J**	<38	<41	**13 J [9.1 J]**	<360	<380	<410	<390
1,2,4,5-Tetrachlorobenzene	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
1,2,4-Trichlorobenzene	11,100	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
1,2-Dichlorobenzene	2,960	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
1,3,5-Trinitrobenzene	376	ug/kg	<740 J	<770 J	<77	<82	<80 [<79]	<710	<770	<820	<780
1,3-Dichlorobenzene	37,700	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
1,3-Dinitrobenzene	655	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
1,4-Dichlorobenzene	546	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
1,4-Dioxane	2,050	ug/kg	<370 J	<390 J	R	<41	<40 [<40]	<360	<380	<410	<390
1,4-Naphthoquinone	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
1-Naphthylamine	- -	ug/kg	<740 J	<770 J	R	<82	<80 [<79]	<710	<770	<820	<780
2,2'-Oxybis(1-Chloropropane)	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2,3,4,6-Tetrachlorophenol	199	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2,4,5-Trichlorophenol	4,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2,4,6-Trichlorophenol	10,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2,4-Dichlorophenol	87,500	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2,4-Dimethylphenol	10	ug/kg	<740 J	<770 J	<77	<82	<80 [<79]	<710	<770	<820	<780
2,4-Dinitrophenol	20,000	ug/kg	<3,700 J	<3,900 J	<380	<410	<400 [<400]	<3,600	<3,800	<4,100	<3,900
2,4-Dinitrotoluene	1,280	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2,6-Dichlorophenol	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2,6-Dinitrotoluene	32.8	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2-Acetylaminofluorene	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2-Chloronaphthalene	12.2	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2-Chlorophenol	243	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2-Methylnaphthalene	3,240	ug/kg	<76 J	<78 J	**13**	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
2-Methylphenol	40,400	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2-Naphthylamine	- -	ug/kg	<740 J	<770 J	R	<82	<80 [<79]	<710	<770	<820	<780
2-Nitroaniline	74,100	ug/kg	<1,900 J	<2,000 J	<200	<210	<210 [<200]	<1,800	<2,000	<2,100	<2,000
2-Nitrophenol	1,600	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
2-Picoline	- -	ug/kg	<740 J	<770 J	R	<82	<80 [<79]	<710	<770	<820	<780
3,3'-Dichlorobenzidine	646	ug/kg	<740 J	<770 J	R	<82	<80 [<79]	<710	<770	<820	<780
3,3'-Dimethylbenzidine	- -	ug/kg	<740 J	<770 J	R	<82	<80 [<79]	<710	<770	<820	<780
3-Methylcholanthrene	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
3-Nitroaniline	3,160	ug/kg	<1,900 J	<2,000 J	<200 J	<210	<210 [<200]	<1,800	<2,000	<2,100	<2,000
4,6-Dinitro-2-methylphenol	- -	ug/kg	<1,900 J	<2,000 J	<200	<210	<210 [<200]	<1,800	<2,000	<2,100	<2,000
4-Aminobiphenyl	- -	ug/kg	<740 J	<770 J	R	<82	<80 [<79]	<710	<770	<820	<780
4-Bromophenyl-phenylether	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
4-Chloro-3-Methylphenol	7,950	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
4-Chloroaniline	1,100	ug/kg	<740 J	<770 J	<77 J	<82	<80 [<79]	<710	<770	<820	<780
4-Chlorophenyl-phenylether	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
4-Methylphenol	163,000	ug/kg	<370 J	<390 J	<38	<41	**21 J [<40]**	<360	<380	<410	<390
4-Nitroaniline	21,900	ug/kg	<1,900 J	<2,000 J	<200 J	<210	<210 [<200]	<1,800	<2,000	<2,100	<2,000
4-Nitrophenol	7,000	ug/kg	<1,900 J	<2,000 J	<200	<210	<210 [<200]	<1,800	<2,000	<2,100	<2,000
4-Nitroquinoline-1-oxide	- -	ug/kg	<3,700 J	<3,900 J	<380	<410	<400 [<400]	<3,600	<3,800	<4,100	<3,900
4-Phenylenediamine	6,160	ug/kg	<9,400 J	R	R	<1,000	<1,000 [<1,000]	<9,000	<9,700	<10,000	<9,900
5-Nitro-o-toluidine	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
7,12-Dimethylbenz(a)anthracene	- -	ug/kg	<370 J	<390 J	<38 J	<41	<40 [<40]	<360	<380	<410	<390
a,a'-Dimethylphenethylamine	- -	ug/kg	<76,000 J	<78,000 J	R	<8,400	<8,100 [<8,100]	<72,000	<78,000	<83,000	<80,000
Acenaphthene	20,000	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Acenaphthylene	682,000	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Acetophenone	300,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Aniline	56.8	ug/kg	<740 J	<770 J	**15 J**	<82	<80 [<79]	<710	<770	<820	<780

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06
Anthracene	100	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Aramite	- -	ug/kg	<740 J	<770 J	<77	<82	<80 [<79]	<710	<770	<820	<780
Benzo(a)anthracene	5,210	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	**42 J**	<78	<83	<80
Benzo(a)pyrene	100	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	**55 J**	<78	<83	**34 J**
Benzo(b)fluoranthene	59,800	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Benzo(g,h,i)perylene	119,000	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	**47 J**	<78	<83	<80
Benzo(k)fluoranthene	148,000	ug/kg	**38 J**	<78 J	<7.8	<8.4	<8.1 [<8.1]	**100**	<78	<83	**37 J**
Benzyl Alcohol	65,800	ug/kg	<370 J	**210 J**	<38	<41	<40 [<40]	<360	<380	<410	<390
bis(2-Chloroethoxy)methane	302	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
bis(2-Chloroethyl)ether	23,700	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
bis(2-Ethylhexyl)phthalate	100	ug/kg	<740 J	<770 J	<13 B	<12 B	**14 J [9.1 J]**	**390 J**	**79 J**	<820	<780
Butylbenzylphthalate	238.89	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Chrysene	4,730	ug/kg	<76 J	<78 J	<7.8	**5.1 J**	<8.1 [<8.1]	**65 J**	<78	<83	**45 J**
Diallate	452	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Dibenzo(a,h)anthracene	18,400	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Dibenzofuran	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Diethylphthalate	100,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Dimethoate	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Dimethylphthalate	200,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Di-n-Butylphthalate	200,000	ug/kg	<1,900 J	<2,000 J	<200	<210	<210 [<200]	<1,800	<2,000	<2,100	<2,000
Di-n-Octylphthalate	709,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Dinoseb	21.8	ug/kg	<740 J	<770 J	<77	<82	<80 [<79]	<710	<770	<820	<780
Diphenyl Ether	- -	ug/kg	**2,600 J**	**110 J**	<38	<41	**44 [27 J]**	<360	<380	**180 J**	**140 J**
Disulfoton	19.9	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Ethyl Methanesulfonate	- -	ug/kg	<740 J	<770 J	<77 J	<82	<80 [<79]	<710	<770	<820	<780
Ethyl Parathion	0.34	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Famphur	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Fluoranthene	100	ug/kg	<76 J	**50 J**	<7.8	**7.1 J**	**5.1 J [<8.1]**	**98**	<78	<83	**43 J**
Fluorene	122,000	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Hexachlorobenzene	2.5	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Hexachlorobutadiene	39.8	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Hexachlorocyclopentadiene	10,000	ug/kg	<740 J	<770 J	<77	<82	<80 [<79]	<710	<770	<820	<780
Hexachloroethane	596	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Hexachlorophene	- -	ug/kg	R	<200,000 J	<20,000	<21,000	<21,000 [<20,000]	<180,000	<200,000	<210,000	<200,000
Hexachloropropene	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Indeno(1,2,3-cd)pyrene	109,000	ug/kg	<76 J	<78 J	<7.8	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Isophorone	139,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Isosafrole	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Methapyrilene	- -	ug/kg	<76,000 J	<78,000 J	R	<8,400	<8,100 [<8,100]	<72,000	<78,000	<83,000	<80,000
Methyl Methanesulfonate	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Methyl Parathion	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Naphthalene	100	ug/kg	<76 J	<78 J	**16**	<8.4	<8.1 [<8.1]	<72	<78	<83	<80
Nitrobenzene	40,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitrosodiethylamine	- -	ug/kg	<740 J	<770 J	<77 J	<82	<80 [<79]	<710	<770	<820	<780
N-Nitrosodimethylamine	0.0321	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitroso-di-n-butylamine	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitroso-di-n-propylamine	544	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitrosodiphenylamine	20,000	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitrosomethylethylamine	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitrosomorpholine	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitrosopiperidine	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
N-Nitrosopyrrolidine	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
o,o,o-Triethylphosphorothioate	- -	ug/kg	<740 J	<770 J	<77	<82	<80 [<79]	<710	<770	<820	<780
o-Toluidine	2,970	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06
p-Dimethylaminoazobenzene	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Pentachlorobenzene	2.5	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Pentachloronitrobenzene	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Pentachlorophenol	2	ug/kg	<1,900 J	<2,000 J	<200	<210	<210 [<200]	<1,800	<2,000	<2,100	<2,000
Phenacetin	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Phenanthrene	100	ug/kg	<76 J	**46 J**	**3.5 J**	**4.4 J**	**3.6 J [<8.1]**	**39 J**	<78	<83	<80
Phenol	50	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Phorate	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Pronamide	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Pyrene	100	ug/kg	<76 J	<78 J	<7.8	**4.9 J**	<8.1 [<8.1]	**100**	<78	<83	**46 J**
Pyridine	100	ug/kg	<370 J	<390 J	R	<41	<40 [<40]	<360	<380	<410	<390
Safrole	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Sulfotep	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Thionazin	- -	ug/kg	<370 J	<390 J	<38	<41	<40 [<40]	<360	<380	<410	<390
Organochlorine Pest Method 8081											
4,4'-DDD	2.5	ug/kg	**10 p**	**180 D**	<3.8	<4.1	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9
4,4'-DDE	2.5	ug/kg	**140 Ep**	**450 D**	<3.8	<4.1	**2.5 Jp [3.7 Jp]**	**2.2 Jp**	<3.8	**4.2**	**5.4**
4,4'-DDT	2.5	ug/kg	**81 D**	**130 D**	<3.8	<4.1	**12 [14]**	**16 p**	<3.8	**24**	**21 p**
4-Chlorobenzilate	- -	ug/kg	<95	<20	<20	<21	<20 [<20]	<18	<20	<21	<20
Aldrin	2.5	ug/kg	<1.9 J	<2.0	<2.0	<2.1	<2.0 [<2]	**1.8**	<2.0	<2.1	<2.0
Alpha-BHC	2.5	ug/kg	<9.5	<2.0	<2.0	<2.1	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0
Aroclor-1016	- -	ug/kg	<190	<39	<38	<41	<40 [<39]	<36	<38	<41	<39
Aroclor-1221	- -	ug/kg	<75	<78	<78	<83	<81 [<80]	<73	<78	<83	<79
Aroclor-1232	- -	ug/kg	<37	<39	<38	<41	<40 [<39]	<36	<38	<41	<39
Aroclor-1242	- -	ug/kg	<190	<39	<38	<41	<40 [<39]	<36	<38	<41	<39
Aroclor-1248	- -	ug/kg	<37	<39	<38	<41	<40 [<39]	<36	<38	<41	<39
Aroclor-1254	- -	ug/kg	<190	<39	<38	<41	<40 [<39]	**410**	<38	<41	<39
Aroclor-1260	- -	ug/kg	<37	<39	<38	<41	<40 [<39]	<36	<38	<41	<39
Beta-BHC	1	ug/kg	<9.5	<2.0	<2.0	<2.1	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0
Delta-BHC	9,940	ug/kg	<1.9	<2.0	<2.0	<2.1	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0
Dieldrin	0.28	ug/kg	<19	**13**	<3.8	<4.1	<4.0 [<3.9]	**42**	<3.8	<4.1	<3.9
Endosulfan I	119	ug/kg	<9.5	<2.0	<2.0	<2.1	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0
Endosulfan II	119	ug/kg	<3.7	<3.9	<3.8	<4.1	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9
Endosulfan Sulfate	3.58	ug/kg	<19	<3.9	<3.8	<4.1	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9
Endrin	1	ug/kg	<3.7 J	<3.9	<3.8	<4.1	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9
Endrin Aldehyde	10.5	ug/kg	<3.7	<3.9	<3.8	<4.1	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9
Gamma-BHC (Lindane)	0.05	ug/kg	<1.9	<2.0	<2.0	<2.1	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0
Heptachlor	5.98	ug/kg	<1.9	<2.0	<2.0	<2.1	<2.0 [<2]	<1.8	<2.0	<2.1	<2.0
Heptachlor Epoxide	152	ug/kg	<9.5	<2.0	<2.0	<2.1	<2.0 [<2]	**3.3 p**	<2.0	<2.1	<2.0
Isodrin	- -	ug/kg	<3.7	<3.9	<3.8	<4.1	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9
Kepone	- -	ug/kg	<190	<200	<200	<210	<200 [<200]	<180	<200	<210	<200
Methoxychlor	19.9	ug/kg	<19	<3.9	<3.8	<4.1	<4.0 [<3.9]	<3.6	<3.8	<4.1	<3.9
Technical Chlordane	224	ug/kg	<19	<20	<20	<21	<20 [<20]	<18	<20	<21	<20
Total PCBs	20	ug/kg	<37	<39	<38	<41	<40 [<39]	**410**	<38	<41	<39
Toxaphene	- -	ug/kg	<190	<200	<200	<210	**310 p [700]**	<180	<200	**330 p**	**1,400**
Herbicides Method 8151											
2,4,5-T	- -	ug/kg	<9.3	<9.6	<9.7	<10 H	<10 [<10]	<9.0	<9.5	<10	<9.8
2,4,5-TP	- -	ug/kg	<9.3	<9.6	<9.7 J	<10 H	<10 [<10]	<9.0	<9.5	<10	<9.8
2,4-D	272	ug/kg	<9.3	<9.6	<9.7	<10 H	<10 [<10]	<9.0	<9.6 H	<10	<9.8
Dioxathion/Dioxenethion Method 8310											
cis-Dioxathion	- -	ug/kg	<84.9	**160 J**	<82.5 J	**253 J**	<84.1 [175]	**192**	**107**	**269**	**303**
Dioxenethion	- -	ug/kg	**35.1**	**1,560 J**	**33.3**	**1,990**	**234 [<17.1]**	**120**	**1,370**	<17	**193**
trans-Dioxathion	- -	ug/kg	<84.9	**280 J**	**197 J**	**95**	<84.1 [336]	<84.5	**275**	**766**	**826**
Dioxins and Furans Method 8290											

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-GP-28 (0-2) 0 - 2 03/21/12 AO-GP-28	SS-AO-GP-31 (0-2) 0 - 2 03/14/12 AO-GP-31	SS-AO-GP-32 (0-2) 0 - 2 03/13/12 AO-GP-32	SS-AO-GP-33 (0-2) 0 - 2 03/13/12 AO-GP-33	SS-AO-SS-02 (0-1) 0 - 1 03/20/12 AO-SS-02	SS-AO-SS-03 (0-1) 0 - 1 03/19/12 AO-SS-03	SS-AO-SS-04 (0-1) 0 - 1 03/19/12 AO-SS-04	SS-AO-SS-05 (0-1) 0 - 1 03/19/12 AO-SS-05	SS-AO-SS-06 (0-1) 0 - 1 03/19/12 AO-SS-06
1,2,3,4,6,7,8-HpCDD	- -	pg/g	**230 B**	**40**	**53**	**260**	**110 [35]**	**150**	**86**	**120**	**110**
1,2,3,4,6,7,8-HpCDF	- -	pg/g	**44**	**5.8 J**	**1.1 J**	**34**	**22 [<6.3]**	**38**	**16**	**20**	**19**
1,2,3,4,7,8,9-HpCDF	- -	pg/g	**4.5 J**	**0.42 J**	<6.0	**2.1 J**	<6.1 [<6.3]	**3.2 J**	**1.1 J**	**1.6 J**	**1.5 QJ**
1,2,3,4,7,8-HxCDD	- -	pg/g	**2.3 J**	**0.37 J**	<6.0	**1.3 J**	**1.3 QJ [1 J]**	**1.6 J**	**0.98 QJ**	**0.65 QJ**	**0.86 QJ**
1,2,3,4,7,8-HxCDF	- -	pg/g	**3.5 J**	**0.58 J**	**0.19 J**	**2.6 J**	**2.0 QJ [<6.3]**	**5.0 J**	**2.7 QJ**	**1.7 J**	**2.5 J**
1,2,3,6,7,8-HxCDD	- -	pg/g	**10 B**	**3.2 J**	<6.0	**8.7**	**8.1 [2.1 J]**	**7.0 J**	**3.3 QJ**	**13**	**6.9**
1,2,3,6,7,8-HxCDF	- -	pg/g	**2.4 J**	**1.3 J**	<6.0	**2.9 J**	**9.2 Q [<6.3]**	**4.0 QJ**	**2.5 QJ**	**3.9 QJ**	**5.9 QJ**
1,2,3,7,8,9-HxCDD	- -	pg/g	**5.8 J**	**1.9 J**	**0.67 J**	**4.4 J**	**6.1 Q [1.9 J]**	**4.2 J**	**4.6 J**	**5.1 J**	**3.9 QJ**
1,2,3,7,8,9-HxCDF	- -	pg/g	**0.23 J**	<6.2	<6.0	<5.9	<6.1 [<6.3]	<11	<5.7	<5.9	<6.0
1,2,3,7,8-PeCDD	- -	pg/g	<6.3 B	**0.44 J**	<6.0	**1.1 J**	**1.8 QJ [<6.3]**	**0.87 QJ**	**1.2 J**	**0.84 QJ**	**1.1 QJ**
1,2,3,7,8-PeCDF	- -	pg/g	**0.43 J**	<6.2	<6.0	**0.42 J**	<6.1 [<6.3]	**0.62 QJ**	**0.76 QJ**	<5.9	<6.0
2,3,4,6,7,8-HxCDF	- -	pg/g	**2.5 J**	**0.41 J**	<6.0	**1.1 J**	**2.3 J [<6.3]**	**2.1 J**	**1.3 QJ**	**0.61 J**	**1.6 J**
2,3,4,7,8-PeCDF	- -	pg/g	**1.1 J**	**0.62 J**	<6.0	**0.66 J**	**2.0 BJ [<6.3]**	**1.3 QBJ**	**1.1 BJ**	**0.46 QBJ**	**1.3 QBJ**
2,3,7,8-TCDD	0.199	pg/g	<1.3	<1.2	<1.2	<1.2	<1.2 [<1.3]	<2.1	<1.1	<1.2	<1.2
2,3,7,8-TCDF	- -	pg/g	**0.29 J**	**0.97 J**	<1.2	**0.90 J**	**0.58 QJ [<1.3]**	**1.4 QJ**	**0.48 QJ**	**0.57 QJ**	**0.92 J**
Octachlorodibenzofuran	- -	pg/g	**95 B**	**6.6 J**	**3.7 J**	**150**	**41 [<13]**	**58**	**36**	**57**	**47**
Octachlorodibenzo-p-Dioxin	- -	pg/g	**3,700 B**	**470 B**	**7,600 EJ**	**3,700 B**	**1,300 B [340 B]**	**1,800 B**	**1,200 B**	**1,600 B**	**1,600 B**
Total Metals Method 6020											
Antimony	0.29	mg/kg	<2.1	<2.2	<2.2	<2.2	<2.3 [<2.2]	<2.0	<2.3	<2.3	<2.4
Arsenic	10	mg/kg	**3.3**	**1.7**	**3.0**	**2.2**	**1.5 [2.3]**	**1.7**	**1.6**	**0.99**	**3.4**
Barium	330	mg/kg	**39 J**	**45 J**	**46**	**40**	**30 [28]**	**42**	**37**	**20**	**48**
Beryllium	36	mg/kg	**0.22**	**0.12**	**0.35**	**0.18**	**0.12 [0.13]**	**0.078 J**	**0.20**	**0.094 J**	**0.098 J**
Cadmium	0.38	mg/kg	**0.053 J**	**0.32**	<0.11	**0.22**	**0.13 [0.11]**	**0.33**	**0.23**	**0.029 J**	**0.27**
Chromium	0.4	mg/kg	**19 J**	**18**	**9.7 J**	**7.6 J**	**4.2 [5.5]**	**6.3**	**5.9**	**3.6**	**3.8**
Cobalt	13	mg/kg	**2.7 J**	**1.7 J**	**5.0 J**	**2.1 J**	**16 [12]**	**1.4**	**3.1**	**1.3**	**4.9**
Copper	40	mg/kg	**8.1 J**	**18**	**4.7**	**21**	**30 [32]**	**220**	**16**	**17**	**23**
Lead	16	mg/kg	**64**	**58**	**8.5 J**	**34 J**	**27 [31]**	**350**	**17**	**20**	**32**
Nickel	30	mg/kg	**5.1 J**	**20**	**4.9**	**6.4**	**28 [24]**	**91**	**14**	**10**	**40**
Selenium	0.81	mg/kg	<1.0	<1.1	**0.67 J**	<1.1	<1.2 [<1.1]	<1.0	<1.2	<1.1	<1.2
Silver	2	mg/kg	<0.21	<0.22	<0.22	<0.22	<0.23 [<0.22]	<0.20	<0.23	<0.23	**0.14 J**
Thallium	1	mg/kg	<0.12 B	<0.22	**0.18 J**	**0.073 J**	<0.23 [<0.22]	**0.053 J**	**0.079 J**	<0.23	**0.059 J**
Tin	53	mg/kg	<21 J	<22	<22	<22	<23 [<22]	<20	<23	<23	<24
Vanadium	2	mg/kg	**16 J**	**6.6**	**18 J**	**9.9 J**	**6.2 [5.9]**	**4.0**	**5.5**	**3.5**	**5.2**
Zinc	50	mg/kg	**43**	**260 J**	**17**	**78**	**34 [27]**	**68**	**59**	**11**	**63**
Total Metals Method 7471											
Mercury	0.1	mg/kg	**0.062**	**0.093**	<0.022	**0.073**	**0.23 [0.25]**	**0.026**	**0.079**	**0.15**	**0.23**
Cyanide											
Cyanide	0.9	mg/kg	<0.55	<0.56	<0.56	<0.60	<0.61 [<0.57]	<0.52	<0.57	<0.62	**0.48 J**
Sulfide											
Sulfide	- -	mg/kg	<60	<63	<60	<60	<57 [<63]	<63	<62	<65	<54
General Chemistry											
Percent Moisture	- -	%	**22.5**	**21.4**	**18.0**	**19.1**	**20.1 [23.5]**	**7.1**	**13.8**	**18.2**	**20.2**
Total Solids	- -	% passing	**85.8**	**82.5**	**75.3**	**84.5**	**80.9 [81.3]**	**94.3**	**85.1**	**82.6**	**74.8**

VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name:			SS-AO-SS-07 (0-1)	SS-AO-SS-08 (0-1)
Sample Depth(ft):			0 - 1	0 - 1
Date Collected:			03/19/12	03/19/12
Location ID:	HERC_HATTIE_ECO_SO	Units	AO-SS-07	AO-SS-08
VOCs Method 8260				
1,1,1,2-Tetrachloroethane	225,000	ug/kg	<5.6	<6.0
1,1,1-Trichloroethane	29,800	ug/kg	<5.6	<6.0
1,1,2,2-Tetrachloroethane	127	ug/kg	<5.6	<6.0
1,1,2-Trichloroethane	28,600	ug/kg	<5.6	<6.0
1,1-Dichloroethane	20,100	ug/kg	<5.6	<6.0
1,1-Dichloroethene	8,280	ug/kg	<5.6	<6.0
1,2,3-Trichloropropane	3,360	ug/kg	<5.6	<6.0
1,2-Dibromo-3-chloropropane	35.2	ug/kg	<11	<12
1,2-Dibromoethane	1,230	ug/kg	<5.6	<6.0
1,2-Dichloroethane	400	ug/kg	<5.6	<6.0
1,2-Dichloropropane	700,000	ug/kg	<5.6	<6.0
2-Butanone	89,600	ug/kg	**9.9 J**	**11 J**
2-Chloro-1,3-butadiene	- -	ug/kg	<5.6	<6.0
2-Hexanone	12,600	ug/kg	<28	<30
3-Chloropropene	- -	ug/kg	<5.6	<6.0
4-Methyl-2-pentanone	443,000	ug/kg	<28	<30
Acetone	2,500	ug/kg	**110**	**100**
Acetonitrile	1,370	ug/kg	<220	<240
Acrolein	5,270	ug/kg	<110	<120
Acrylonitrile	1,000,000	ug/kg	<110	<120
Benzene	50	ug/kg	**3.2 J**	<6.0
Bromodichloromethane	540	ug/kg	<5.6	<6.0
Bromoform	15,900	ug/kg	<5.6	<6.0
Bromomethane	235	ug/kg	<5.6	<6.0
Carbon Disulfide	94.12	ug/kg	<5.6	<6.0
Carbon Tetrachloride	100	ug/kg	<5.6	<6.0
Chlorobenzene	50	ug/kg	<5.6	<6.0
Chloroethane	- -	ug/kg	<5.6	<6.0
Chloroform	1	ug/kg	<5.6	<6.0
Chloromethane	10,400	ug/kg	<5.6	<6.0
cis-1,3-Dichloropropene	398	ug/kg	<5.6	<6.0
Dibromochloromethane	2,050	ug/kg	<5.6	<6.0
Dibromomethane	65,000	ug/kg	<5.6	<6.0
Dichlorodifluoromethane	39,500	ug/kg	<5.6	<6.0
Ethyl Methacrylate	30,000	ug/kg	<5.6	<6.0
Ethylbenzene	50	ug/kg	<5.6	<6.0
Iodomethane	- -	ug/kg	<5.6	<6.0
Isobutanol	20,800	ug/kg	<220	<240
Methacrylonitrile	57	ug/kg	<110	<120
Methyl Methacrylate	- -	ug/kg	<11	<12
Methylene Chloride	2,000	ug/kg	<5.6	<6.0
Pentachloroethane	- -	ug/kg	<28	<30
Propionitrile	- -	ug/kg	<110	<120
Styrene	100	ug/kg	<5.6	<6.0
Tetrachloroethene	10	ug/kg	<5.6	<6.0
Toluene	50	ug/kg	**1.4 J**	<6.0
trans-1,2-Dichloroethene	784	ug/kg	<5.6	<6.0
trans-1,3-Dichloropropene	398	ug/kg	<5.6	<6.0
trans-1,4-Dichloro-2-butene	- -	ug/kg	<11	<12
Trichloroethene	1	ug/kg	<5.6	<6.0
Trichlorofluoromethane	16,400	ug/kg	<5.6	<6.0
Vinyl Acetate	12,700	ug/kg	<11	<12
Vinyl Chloride	10	ug/kg	<5.6	<6.0

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
Xylenes (total)	50	ug/kg	<11	<12
SVOCs Method 8270C				
1,1'-Biphenyl	60,000	ug/kg	<380	<410
1,2,4,5-Tetrachlorobenzene	- -	ug/kg	<380	<410
1,2,4-Trichlorobenzene	11,100	ug/kg	<380	<410
1,2-Dichlorobenzene	2,960	ug/kg	<380	<410
1,3,5-Trinitrobenzene	376	ug/kg	<760	<830
1,3-Dichlorobenzene	37,700	ug/kg	<380	<410
1,3-Dinitrobenzene	655	ug/kg	<380	<410
1,4-Dichlorobenzene	546	ug/kg	<380	<410
1,4-Dioxane	2,050	ug/kg	<380	<410
1,4-Naphthoquinone	- -	ug/kg	<380	<410
1-Naphthylamine	- -	ug/kg	<760	<830
2,2'-Oxybis(1-Chloropropane)	- -	ug/kg	<380	<410
2,3,4,6-Tetrachlorophenol	199	ug/kg	<380	<410
2,4,5-Trichlorophenol	4,000	ug/kg	<380	<410
2,4,6-Trichlorophenol	10,000	ug/kg	<380	<410
2,4-Dichlorophenol	87,500	ug/kg	<380	<410
2,4-Dimethylphenol	10	ug/kg	<760	<830
2,4-Dinitrophenol	20,000	ug/kg	<3,800	<4,100
2,4-Dinitrotoluene	1,280	ug/kg	<380	<410
2,6-Dichlorophenol	- -	ug/kg	<380	<410
2,6-Dinitrotoluene	32.8	ug/kg	<380	<410
2-Acetylaminofluorene	- -	ug/kg	<380	<410
2-Chloronaphthalene	12.2	ug/kg	<380	<410
2-Chlorophenol	243	ug/kg	<380	<410
2-Methylnaphthalene	3,240	ug/kg	<77	<84
2-Methylphenol	40,400	ug/kg	<380	<410
2-Naphthylamine	- -	ug/kg	<760	<830
2-Nitroaniline	74,100	ug/kg	<2,000	<2,100
2-Nitrophenol	1,600	ug/kg	<380	<410
2-Picoline	- -	ug/kg	<760	<830
3,3'-Dichlorobenzidine	646	ug/kg	<760	<830
3,3'-Dimethylbenzidine	- -	ug/kg	<760	<830
3-Methylcholanthrene	- -	ug/kg	<380	<410
3-Nitroaniline	3,160	ug/kg	<2,000	<2,100
4,6-Dinitro-2-methylphenol	- -	ug/kg	<2,000	<2,100
4-Aminobiphenyl	- -	ug/kg	<760	<830
4-Bromophenyl-phenylether	- -	ug/kg	<380	<410
4-Chloro-3-Methylphenol	7,950	ug/kg	<380	<410
4-Chloroaniline	1,100	ug/kg	<760	<830
4-Chlorophenyl-phenylether	- -	ug/kg	<380	<410
4-Methylphenol	163,000	ug/kg	<380	<410
4-Nitroaniline	21,900	ug/kg	<2,000	<2,100
4-Nitrophenol	7,000	ug/kg	<2,000	<2,100
4-Nitroquinoline-1-oxide	- -	ug/kg	<3,800	<4,100
4-Phenylenediamine	6,160	ug/kg	<9,500	<10,000
5-Nitro-o-toluidine	- -	ug/kg	<380	<410
7,12-Dimethylbenz(a)anthracene	- -	ug/kg	<380	<410
a,a'-Dimethylphenethylamine	- -	ug/kg	<77,000	<84,000
Acenaphthene	20,000	ug/kg	<77	<84
Acenaphthylene	682,000	ug/kg	<77	<84
Acetophenone	300,000	ug/kg	<380	<410
Aniline	56.8	ug/kg	<760	<830

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
Anthracene	100	ug/kg	<77	<84
Aramite	- -	ug/kg	<760	<830
Benzo(a)anthracene	5,210	ug/kg	**50 J**	**130**
Benzo(a)pyrene	100	ug/kg	**54 J**	**160**
Benzo(b)fluoranthene	59,800	ug/kg	**67 J**	**320**
Benzo(g,h,i)perylene	119,000	ug/kg	<77	**83 J**
Benzo(k)fluoranthene	148,000	ug/kg	**64 J**	<84
Benzyl Alcohol	65,800	ug/kg	<380	<410
bis(2-Chloroethoxy)methane	302	ug/kg	<380	<410
bis(2-Chloroethyl)ether	23,700	ug/kg	<380	<410
bis(2-Ethylhexyl)phthalate	100	ug/kg	<760	**120 J**
Butylbenzylphthalate	238.89	ug/kg	<380	<410
Chrysene	4,730	ug/kg	**69 J**	**160**
Diallate	452	ug/kg	<380	<410
Dibenzo(a,h)anthracene	18,400	ug/kg	<77	<84
Dibenzofuran	- -	ug/kg	<380	<410
Diethylphthalate	100,000	ug/kg	<380	<410
Dimethoate	- -	ug/kg	<380	<410
Dimethylphthalate	200,000	ug/kg	<380	<410
Di-n-Butylphthalate	200,000	ug/kg	<2,000	<2,100
Di-n-Octylphthalate	709,000	ug/kg	<380	<410
Dinoseb	21.8	ug/kg	<760	<830
Diphenyl Ether	- -	ug/kg	**260 J**	<410
Disulfoton	19.9	ug/kg	<380	<410
Ethyl Methanesulfonate	- -	ug/kg	<760	<830
Ethyl Parathion	0.34	ug/kg	<380	<410
Famphur	- -	ug/kg	<380	<410
Fluoranthene	100	ug/kg	**64 J**	**220**
Fluorene	122,000	ug/kg	<77	<84
Hexachlorobenzene	2.5	ug/kg	<380	<410
Hexachlorobutadiene	39.8	ug/kg	<380	<410
Hexachlorocyclopentadiene	10,000	ug/kg	<760	<830
Hexachloroethane	596	ug/kg	<380	<410
Hexachlorophene	- -	ug/kg	<200,000	<210,000
Hexachloropropene	- -	ug/kg	<380	<410
Indeno(1,2,3-cd)pyrene	109,000	ug/kg	<77	**68 J**
Isophorone	139,000	ug/kg	<380	<410
Isosafrole	- -	ug/kg	<380	<410
Methapyrilene	- -	ug/kg	<77,000	<84,000
Methyl Methanesulfonate	- -	ug/kg	<380	<410
Methyl Parathion	- -	ug/kg	<380	<410
Naphthalene	100	ug/kg	<77	<84
Nitrobenzene	40,000	ug/kg	<380	<410
N-Nitrosodiethylamine	- -	ug/kg	<760	<830
N-Nitrosodimethylamine	0.0321	ug/kg	<380	<410
N-Nitroso-di-n-butylamine	- -	ug/kg	<380	<410
N-Nitroso-di-n-propylamine	544	ug/kg	<380	<410
N-Nitrosodiphenylamine	20,000	ug/kg	<380	<410
N-Nitrosomethylethylamine	- -	ug/kg	<380	<410
N-Nitrosomorpholine	- -	ug/kg	<380	<410
N-Nitrosopiperidine	- -	ug/kg	<380	<410
N-Nitrosopyrrolidine	- -	ug/kg	<380	<410
o,o,o-Triethylphosphorothioate	- -	ug/kg	<760	<830
o-Toluidine	2,970	ug/kg	<380	<410

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Sample Depth(ft): Date Collected: Location ID:	HERC_HATTIE_ECO_SO	Units	SS-AO-SS-07 (0-1) 0 - 1 03/19/12 AO-SS-07	SS-AO-SS-08 (0-1) 0 - 1 03/19/12 AO-SS-08
p-Dimethylaminoazobenzene	- -	ug/kg	<380	<410
Pentachlorobenzene	2.5	ug/kg	<380	<410
Pentachloronitrobenzene	- -	ug/kg	<380	<410
Pentachlorophenol	2	ug/kg	<2,000	<2,100
Phenacetin	- -	ug/kg	<380	<410
Phenanthrene	100	ug/kg	<77	**96**
Phenol	50	ug/kg	<380	<410
Phorate	- -	ug/kg	<380	<410
Pronamide	- -	ug/kg	<380	<410
Pyrene	100	ug/kg	**76 J**	**270**
Pyridine	100	ug/kg	<380	<410
Safrole	- -	ug/kg	<380	<410
Sulfotep	- -	ug/kg	<380	<410
Thionazin	- -	ug/kg	<380	<410
Organochlorine Pest Method 8081				
4,4'-DDD	2.5	ug/kg	<3.8	**13**
4,4'-DDE	2.5	ug/kg	**7.3**	**94 D**
4,4'-DDT	2.5	ug/kg	<3.8	**220 E**
4-Chlorobenzilate	- -	ug/kg	<20	<110
Aldrin	2.5	ug/kg	<2.0	<11
Alpha-BHC	2.5	ug/kg	<2.0	<11
Aroclor-1016	- -	ug/kg	<38	<41
Aroclor-1221	- -	ug/kg	<77	<84
Aroclor-1232	- -	ug/kg	<38	<41
Aroclor-1242	- -	ug/kg	<38	<41
Aroclor-1248	- -	ug/kg	<38	<210
Aroclor-1254	- -	ug/kg	<38	<41
Aroclor-1260	- -	ug/kg	<38	<41
Beta-BHC	1	ug/kg	<2.0	<11
Delta-BHC	9,940	ug/kg	<2.0	<2.1
Dieldrin	0.28	ug/kg	<3.8	**25 D**
Endosulfan I	119	ug/kg	<2.0	<2.1
Endosulfan II	119	ug/kg	<3.8	<21
Endosulfan Sulfate	3.58	ug/kg	<3.8	<21
Endrin	1	ug/kg	<3.8	<4.1
Endrin Aldehyde	10.5	ug/kg	<3.8	<4.1
Gamma-BHC (Lindane)	0.05	ug/kg	<2.0	<2.1
Heptachlor	5.98	ug/kg	<2.0	<2.1
Heptachlor Epoxide	152	ug/kg	<2.0	<11
Isodrin	- -	ug/kg	<3.8	<21
Kepone	- -	ug/kg	<200	<1,100
Methoxychlor	19.9	ug/kg	<3.8	<21
Technical Chlordane	224	ug/kg	<20	<110
Total PCBs	20	ug/kg	<38	<41
Toxaphene	- -	ug/kg	**830 p**	<1,100
Herbicides Method 8151				
2,4,5-T	- -	ug/kg	<9.5	<10
2,4,5-TP	- -	ug/kg	<9.5	<10
2,4-D	272	ug/kg	<9.5	<10
Dioxathion/Dioxenethion Method 8310				
cis-Dioxathion	- -	ug/kg	**1,570**	**712**
Dioxenethion	- -	ug/kg	**50.9**	**260**
trans-Dioxathion	- -	ug/kg	<83.8	**300**
Dioxins and Furans Method 8290				

Table A-4. Summary of Soil Analytical Results, Ecological Comparison Criteria, Phase I Activities, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name:			SS-AO-SS-07 (0-1)	SS-AO-SS-08 (0-1)
Sample Depth(ft):			0 - 1	0 - 1
Date Collected:			03/19/12	03/19/12
Location ID:	HERC_HATTIE_ECO_SO	Units	AO-SS-07	AO-SS-08
1,2,3,4,6,7,8-HpCDD	- -	pg/g	**410**	**2,800**
1,2,3,4,6,7,8-HpCDF	- -	pg/g	**100**	**510**
1,2,3,4,7,8,9-HpCDF	- -	pg/g	**8.9**	**43**
1,2,3,4,7,8-HxCDD	- -	pg/g	**5.8**	**18 J**
1,2,3,4,7,8-HxCDF	- -	pg/g	**10**	**16 J**
1,2,3,6,7,8-HxCDD	- -	pg/g	**18**	**78**
1,2,3,6,7,8-HxCDF	- -	pg/g	**23 Q**	**83 Q**
1,2,3,7,8,9-HxCDD	- -	pg/g	**15**	**50 Q**
1,2,3,7,8,9-HxCDF	- -	pg/g	**0.53 QJ**	<31
1,2,3,7,8-PeCDD	- -	pg/g	**2.8 J**	**5.5 J**
1,2,3,7,8-PeCDF	- -	pg/g	**1.6 J**	<31
2,3,4,6,7,8-HxCDF	- -	pg/g	**5.6 J**	**8.2 QJ**
2,3,4,7,8-PeCDF	- -	pg/g	**2.3 BJ**	<31
2,3,7,8-TCDD	0.199	pg/g	<1.2	<6.1
2,3,7,8-TCDF	- -	pg/g	**0.97 J**	<6.1
Octachlorodibenzofuran	- -	pg/g	**210**	**1,400**
Octachlorodibenzo-p-Dioxin	- -	pg/g	**3,300 B**	**21,000 B**
Total Metals Method 6020				
Antimony	0.29	mg/kg	<2.2	**1.1 J**
Arsenic	10	mg/kg	**5.6**	**3.1**
Barium	330	mg/kg	**50**	**100**
Beryllium	36	mg/kg	**0.15**	**0.21**
Cadmium	0.38	mg/kg	**0.11**	**0.54**
Chromium	0.4	mg/kg	**5.1**	**9.2**
Cobalt	13	mg/kg	**3.1**	**2.3**
Copper	40	mg/kg	**29**	**28**
Lead	16	mg/kg	**39**	**220**
Nickel	30	mg/kg	**10**	**8.6**
Selenium	0.81	mg/kg	<1.1	<1.1
Silver	2	mg/kg	<0.22	**0.20 J**
Thallium	1	mg/kg	**0.075 J**	**0.097 J**
Tin	53	mg/kg	<22	**11 J**
Vanadium	2	mg/kg	**9.6**	**7.8**
Zinc	50	mg/kg	**42**	**190**
Total Metals Method 7471				
Mercury	0.1	mg/kg	**0.12**	**0.20**
Cyanide				
Cyanide	0.9	mg/kg	<0.57	<0.62
Sulfide				
Sulfide	- -	mg/kg	**59**	<75
General Chemistry				
Percent Moisture	- -	%	**14.1**	**18.9**
Total Solids	- -	% passing	**84.8**	**82.5**

VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

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Appendix A-5

Summary of Surface Water Analytical Results, Human Health Comparison Criteria

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07
VOCs_8260										
1,1,1,2-Tetrachloroethane	0.405735883	0.5	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,1,1-Trichloroethane	200	7,500	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,1,2,2-Tetrachloroethane	0.052745665	0.066	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,1,2-Trichloroethane	5	0.24	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,1-Dichloroethane	798.4375	2.4	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,1-Dichloroethene	7	260	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,2,3-Trichloropropane	0.006233456	0.00065	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,2,4-Trichlorobenzene	70	0.99	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,2-Dibromoethane	0.05	0.0065	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,2-Dichloroethane	5	0.15	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,2-Dichloropropane	5	0.38	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
1,4-Dioxane	6.088407006	0.67	ug/L	<50	<50	<50	<50	<50	**58 [59]**	**69**
2-Butanone	1,906.086427	4,900	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10
2-Chloro-1,3-butadiene	14.31372549	0.016	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
2-Hexanone	1,460	34	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10
3-Chloropropene	- -	0.63	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
4-Methyl-2-pentanone	139.047619	1,000	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10
Acetone	608.3333333	12,000	ug/L	<25	<25	<25	<25	<25	<25 [<25]	<25
Acetonitrile	125.1428571	130	ug/L	<40	<40	<40	<40	<40	<40 [<40]	<40
Acrolein	0.041607628	0.041	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20
Acrylonitrile	0.036724017	0.045	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20
Benzene	5	0.39	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5 [1.5]**	**0.33 J**
Bromodichloromethane	0.167866259	0.12	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Bromoform	8.477528742	7.9	ug/L	<1.0	<1.0 *	<1.0 *	<1.0 *	<1.0	<1.0 [<1]	<1.0
Bromomethane	8.516666667	7	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Carbon Disulfide	1,042.857143	720	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0
Carbon Tetrachloride	5	0.39	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Chlorobenzene	100	72	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Chloroethane	3.637632051	21,000	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Chloroform	0.154585689	0.19	ug/L	<1.0	<1.0	<1.0	<1.0	**0.30 J**	<1.0 [<1]	<1.0
Chloromethane	1.434212853	190	ug/L	<1.0 *	<1.0 *	<1.0 *	<1.0 *	<1.0 J	<1.0 [<1]	<1.0
cis-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Dibromochloromethane	0.125584916	0.15	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Dibromomethane	60.83333333	7.9	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Dichlorodifluoromethane	347.6190476	190	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Ethyl Methacrylate	547.5	420	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Ethylbenzene	700	1.3	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Hexachlorobutadiene	0.858621501	0.26	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0 J	<1.0 [<1]	<1.0
Iodomethane	- -	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0
Isobutanol	1,825	4,600	ug/L	<40	<40	<40	<40	<40	<40 [<40]	<40
Methacrylonitrile	1.042857143	0.75	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20
Methyl Methacrylate	1,419.444444	1,400	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Methylene Chloride	5	9.9	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0
Naphthalene	6.203966006	0.14	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0
Pentachloroethane	- -	0.56	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0
Propionitrile	- -	- -	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20
Styrene	100	1,100	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Tetrachloroethene	5	9.7	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Toluene	1,000	860	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
trans-1,2-Dichloroethene	100	86	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
trans-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
trans-1,4-Dichloro-2-butene	- -	0.0012	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0
Trichloroethene	5	0.44	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Trichlorofluoromethane	1,288.235294	1,100	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Vinyl Acetate	412.1235491	410	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0
Vinyl Chloride	2	0.015	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Xylenes (total)	10,000	190	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0

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Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07
VOCs_8011										
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<0.021	<0.021	<0.020	<0.020	<0.020	<0.020 [<0.02]	<0.020
1,2-Dibromoethane	0.05	0.0065	ug/L	<0.021	<0.021	<0.020	<0.020	<0.020	<0.020 [<0.02]	<0.020
SVOCs_8270C										
1,1'-Biphenyl	304.1666667	0.83	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,2,4,5-Tetrachlorobenzene	10.95	1.2	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,2,4-Trichlorobenzene	70	0.99	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,2-Dichlorobenzene	600	280	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,3,5-Trinitrobenzene	1,095	460	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,3-Dichlorobenzene	5.475	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,3-Dinitrobenzene	3.65	1.5	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,4-Dichlorobenzene	75	0.42	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1,4-Dioxane	6.088407006	0.67	ug/L	<1.9	**0.31 J**	<1.9	**0.68 J**	<2.0	**44 [15]**	NA
1,4-Naphthoquinone	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
1-Naphthylamine	- -	- -	ug/L	<4.7	<4.8	<4.9	<4.9	R	<4.8 [<4.8]	<4.8
2,2'-Oxybis(1-Chloropropane)	0.2603888	0.31	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2,3,4,6-Tetrachlorophenol	1,095	170	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2,4,5-Trichlorophenol	3,650	890	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2,4,6-Trichlorophenol	6.088407006	3.5	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2,4-Dichlorophenol	109.5	35	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2,4-Dimethylphenol	730	270	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
2,4-Dinitrophenol	73	30	ug/L	<9.5	<9.6	<9.7	<9.9	<9.8	<9.6 [<9.5]	<9.7
2,4-Dinitrotoluene	73	0.2	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2,6-Dichlorophenol	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2,6-Dinitrotoluene	36.5	15	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2-Acetylaminofluorene	- -	0.014	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2-Chloronaphthalene	486.6666667	550	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2-Chlorophenol	30.41666667	71	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2-Methylnaphthalene	121.6666667	27	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
2-Methylphenol	1,825	720	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
2-Naphthylamine	- -	0.033	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8
2-Nitroaniline	0.417142857	150	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
2-Nitrophenol	0.4161	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
2-Picoline	- -	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
3,3'-Dichlorobenzidine	0.148827727	0.11	ug/L	<19	<19	<19	<20	R	<19 [<19]	<19
3,3'-Dimethylbenzidine	0.007279617	0.0056	ug/L	<19	<19	<19	<20	R	<19 [<19]	<19
3-Methylcholanthrene	- -	0.00098	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
3-Nitroaniline	- -	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8
4,6-Dinitro-2-methylphenol	3.65	1.2	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8
4-Aminobiphenyl	- -	0.0026	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8
4-Bromophenyl-phenylether	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
4-Chloro-3-Methylphenol	73,000	1,100	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
4-Chloroaniline	146	0.32	ug/L	<1.9	<1.9	<1.9	<2.0	R	<1.9 [<1.9]	<1.9
4-Chlorophenyl-phenylether	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
4-Methylphenol	182.5	1,400	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
4-Nitroaniline	- -	3.3	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8
4-Nitrophenol	292	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8
4-Nitroquinoline-1-oxide	- -	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
4-Phenylenediamine	6,935	3,000	ug/L	<190	<190	<190	<200	R	<190 [<190]	<190
5-Nitro-o-toluidine	2.029469002	7	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
7,12-Dimethylbenz(a)anthracene	- -	0.000086	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
a,a'-Dimethylphenethylamine	- -	- -	ug/L	<9.5	<9.6	<9.7	<9.9	<9.8	<9.6 [<9.5]	<9.7
Acenaphthene	365	400	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Acenaphthylene	2,190	- -	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Acetophenone	0.041609526	1,500	ug/L	<0.95	<0.96	<0.97	**0.15 JB**	<0.98	<0.96 [<0.95]	<0.97
Aniline	11.74955738	12	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
Anthracene	43.4	1,300	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Aramite	- -	2.7	ug/L	<1.4	<1.4	<1.5	<1.5	<1.5	<1.4 [<1.4]	<1.5
Benzo(a)anthracene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Benzo(a)pyrene	0.2	0.0029	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Benzo(b)fluoranthene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Benzo(g,h,i)perylene	1,095	- -	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07
Benzo(k)fluoranthene	0.917431193	0.29	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Benzyl Alcohol	10,950	1,500	ug/L	<0.95	<0.96	<0.97	**0.18 J**	<0.98	<0.96 [<0.95]	<0.97
bis(2-Chloroethoxy)methane	- -	47	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
bis(2-Chloroethyl)ether	0.009202473	0.012	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
bis(2-Ethylhexyl)phthalate	6	0.071	ug/L	<1.9	**0.88 J**	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
Butylbenzylphthalate	2,690	14	ug/L	<0.95	**0.13 J**	**0.14 J**	<0.99	<0.98	<0.96 [<0.95]	<0.97
Chrysene	9.174311927	2.9	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Diallate	- -	0.46	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Dibenzo(a,h)anthracene	0.009174312	0.0029	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Dibenzofuran	24.33333333	5.8	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Diethylphthalate	29,200	11,000	ug/L	<0.95	**0.36 J**	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Dimethoate	- -	3.1	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0 J	<1.9 [<1.9]	<1.9
Dimethylphthalate	365,000	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Di-n-Butylphthalate	3,650	670	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Di-n-Octylphthalate	20	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Dinoseb	7	11	ug/L	NA	NA	<1.9	<2.0	NA	NA	<1.9
Diphenyl Ether	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Disulfoton	1.46	0.38	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
Ethyl Methanesulfonate	- -	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
Ethyl Parathion	219	65	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
Famphur	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	R	<0.96 [<0.95]	R
Fluoranthene	1,460	630	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Fluorene	243.3333333	220	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Hexachlorobenzene	1	0.042	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Hexachlorobutadiene	0.858621501	0.26	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Hexachlorocyclopentadiene	50	22	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
Hexachloroethane	4.783748362	0.79	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Hexachlorophene	10.95	4.7	ug/L	<470	<480	<490	<490	<490	<480 [<480]	<480
Hexachloropropene	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Indeno(1,2,3-cd)pyrene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Isophorone	70.49734428	67	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Isosafrole	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
Methapyrilene	- -	- -	ug/L	<190	<190	<190	<200	<200	<190 [<190]	<190
Methyl Methanesulfonate	- -	0.68	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
Methyl Parathion	9.125	3.4	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Naphthalene	6.203966006	0.14	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Nitrobenzene	3.532258065	0.12	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitrosodiethylamine	0.000446483	0.00014	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitrosodimethylamine	0.001313186	0.00042	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitroso-di-n-butylamine	0.001894431	0.0024	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitroso-di-n-propylamine	0.009567497	0.0093	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitrosodiphenylamine	13.66785246	10	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitrosomethylethylamine	0.003044204	0.003	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9
N-Nitrosomorpholine	- -	0.01	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitrosopiperidine	- -	0.0071	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
N-Nitrosopyrrolidine	0.031891656	0.032	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
o,o,o-Triethylphosphorothioate	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	**2.2**
o-Toluidine	0.279051988	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
p-Dimethylaminoazobenzene	- -	0.0043	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8
Pentachlorobenzene	29.2	2.3	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Pentachloronitrobenzene	0.25758645	0.1	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Pentachlorophenol	1	0.17	ug/L	NA	NA	<4.9	<4.9	NA	NA	<4.8
Phenacetin	- -	30	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Phenanthrene	1,095	- -	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Phenol	21,900	4,500	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Phorate	- -	2.3	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Pronamide	- -	900	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97
Pyrene	182.5	87	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19
Pyridine	36.5	15	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8
Safrole	- -	0.062	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Sulfotep	- -	5.3	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97
Thionazin	- -	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07
Organochlorine Pest_8081										
4,4'-DDD	0.279051988	0.28	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
4,4'-DDE	0.196977874	0.2	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
4,4'-DDT	0.196977874	0.2	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
4-Chlorobenzilate	0.248046211	0.27	ug/L	<0.49	<0.50	NA	NA	<0.47	<0.48 [<0.48]	NA
Aldrin	0.003939557	0.00021	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Alpha-BHC	0.010630552	0.0062	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Beta-BHC	0.037206932	0.022	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Delta-BHC	- -	- -	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Dieldrin	0.00418578	0.0015	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
Endosulfan I	219	- -	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Endosulfan II	219	- -	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
Endosulfan Sulfate	- -	- -	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
Endrin	2	1.7	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
Endrin Aldehyde	- -	- -	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
Gamma-BHC (Lindane)	0.2	0.036	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Heptachlor	0.4	0.0018	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Heptachlor Epoxide	0.2	0.0033	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Isodrin	- -	- -	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA
Kepone	- -	0.003	ug/L	<0.98	<1.0	NA	NA	<0.93	<0.96 [<0.95]	NA
Methoxychlor	40	27	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA
Technical Chlordane	2	- -	ug/L	<0.49	<0.50	NA	NA	<0.47	<0.48 [<0.48]	NA
Toxaphene	3	0.013	ug/L	<4.9	<5.0	NA	NA	<4.7	<4.8 [<4.8]	NA
PCBs_8082										
Aroclor-1016	0.956749672	0.96	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA
Aroclor-1221	0.033486239	0.0043	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA
Aroclor-1232	0.033486239	0.0043	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA
Aroclor-1242	0.033486239	0.034	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA
Aroclor-1248	0.033486239	0.034	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA
Aroclor-1254	0.033486239	0.034	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA
Aroclor-1260	0.033486239	0.034	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA
Herbicides_8151										
2,4,5-T	365	120	ug/L	<0.48	<0.48	NA	NA	<0.48 J	<0.48 [<0.48]	NA
2,4,5-TP	50	84	ug/L	<0.48	<0.48	NA	NA	<0.48 J	<0.48 [<0.48]	NA
2,4-D	70	130	ug/L	<0.48	<0.48	NA	NA	<0.48 J	<0.48 [<0.48]	NA
Dinoseb	7	11	ug/L	<5.8	<5.8	NA	NA	<5.8	<5.8 [<5.8]	NA
Pentachlorophenol	1	0.17	ug/L	<0.24	**0.063 J**	NA	NA	<0.24 J	<0.24 * [<0.24 *]	NA
Dioxathion/Dioxenethion_8310										
cis-Dioxathion	54.75	- -	ug/L	NA	NA	NA	NA	<2.63	<2.78 [<2.55 J]	NA
Dioxenethion	- -	- -	ug/L	NA	NA	NA	NA	<0.526	<0.556 [0.582 J]	NA
trans-Dioxathion	54.75	- -	ug/L	NA	NA	NA	NA	<2.63	<2.78 [<2.55 J]	NA
Dioxins and Furans_8290										
1,2,3,4,6,7,8-HpCDD	44.6483	- -	pg/L	**3.1 QJ**	<48	NA	NA	**1.5 J**	**2.4 QJ [<48]**	NA
1,2,3,4,6,7,8-HpCDF	44.6483	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,4,7,8,9-HpCDF	44.6483	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,4,7,8-HxCDD	4.46483	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,4,7,8-HxCDF	4.46483	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,6,7,8-HxCDD	10.802	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,6,7,8-HxCDF	4.46483	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,7,8,9-HxCDD	10.802	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,7,8,9-HxCDF	4.46483	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,7,8-PeCDD	0.892966	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
1,2,3,7,8-PeCDF	8.92966	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
2,3,4,6,7,8-HxCDF	4.46483	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
2,3,4,7,8-PeCDF	0.892966	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA
2,3,7,8-TCDD	30	0.52	pg/L	<9.5	<9.5	NA	NA	<9.5	<9.5 [<9.5]	NA
2,3,7,8-TCDF	4.46483	- -	pg/L	<9.5	<9.5	NA	NA	<9.5	<9.5 [<9.5]	NA
Octachlorodibenzofuran	446.483	- -	pg/L	<95	<95	NA	NA	<95	<95 [<95]	NA
Octachlorodibenzo-p-Dioxin	446.483	- -	pg/L	**45 J**	**32 J**	NA	NA	**66 J**	**41 BJ [40 BJ]**	NA
Total Metals_6020										
Antimony	6	6	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0
Arsenic	50	0.045	ug/L	**2.1 J**	**1.5 J**	**1.5 J**	**1.7 J**	**1.4 J**	**1.7 J [1.7 J]**	**1.8 J**

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07
Barium	2,000	2,900	ug/L	**35**	**84**	**79**	**78**	**79**	**91 [96]**	**99**
Beryllium	4	16	ug/L	<0.50	**0.15 J**	<0.50	<0.50	<0.50	<0.50 [<0.5]	<0.50
Cadmium	5	6.9	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 [<0.5]	<0.50
Chromium	- -	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0
Cobalt	2,190	4.7	ug/L	**0.39 J**	**1.1**	**0.47 J**	**0.46 J**	**0.38 J**	**1.1 [1.2]**	**1.3**
Copper	1,300	620	ug/L	**3.1 J**	**1.5 J**	**1.8 J**	**1.6 J**	**1.8 J**	**2.4 J [2.2 J]**	**5.3**
Lead	15	- -	ug/L	<1.5	<1.5	<1.5	<1.5	**0.58 J**	<1.5 [<1.5]	**0.56 J**
Nickel	730	300	ug/L	<5.0	**2.0 J**	<5.0	**2.0 J**	<5.0	**5.0 [5]**	**6.5**
Selenium	50	78	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 [<2.5]	<2.5
Silver	182.5	71	ug/L	**0.36 J**	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0
Thallium	2	0.16	ug/L	<1.0	<1.0	<1.0	**0.26 J**	<1.0	<1.0 [<1]	<1.0
Tin	21,900	9,300	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0
Vanadium	255.5	78	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10
Zinc	10,950	4,700	ug/L	<20	**8.7 J**	<20	<20	<20	**10 J [11 J]**	**12 J**
Total Metals_7470										
Mercury	2	0.63	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20
Cyanide										
Cyanide	0.2	0.0093	mg/L	NA	NA	NA	NA	<0.010	<0.010 [<0.01]	NA
Sulfide										
Sulfide	- -	- -	mg/L	NA	NA	NA	NA	**1.8**	<1.0 [1.3]	NA

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
VOCs_8260											
1,1,1,2-Tetrachloroethane	0.405735883	0.5	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	7,500	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	0.052745665	0.066	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.24	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	798.4375	2.4	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	260	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	0.006233456	0.00065	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	0.99	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	0.05	0.0065	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	5	0.15	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.38	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	6.088407006	0.67	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
2-Butanone	1,906.086427	4,900	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloro-1,3-butadiene	14.31372549	0.016	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	1,460	34	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
3-Chloropropene	- -	0.63	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	139.047619	1,000	ug/L	<10	<10	<10	<10	<10	<10	**2.3 J**	<10
Acetone	608.3333333	12,000	ug/L	<25	<25	<25	<25	<25	<25	**7.8 J**	**12 J**
Acetonitrile	125.1428571	130	ug/L	<40	<40	<40	<40	<40	<40	<40	<40
Acrolein	0.041607628	0.041	ug/L	<20	<20	<20	<20	<20	<20	<20	<20
Acrylonitrile	0.036724017	0.045	ug/L	<20	<20	<20	<20	<20	<20	<20	<20
Benzene	5	0.39	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**14**	<1.0
Bromodichloromethane	0.167866259	0.12	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	8.477528742	7.9	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	8.516666667	7	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	1,042.857143	720	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.0**	<2.0
Carbon Tetrachloride	5	0.39	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**63**	<1.0
Chlorobenzene	100	72	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.49 J**	<1.0
Chloroethane	3.637632051	21,000	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	0.154585689	0.19	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	**0.25 J**	**30**	**0.45 J**
Chloromethane	1.434212853	190	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 *	<1.0
cis-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	0.125584916	0.15	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	60.83333333	7.9	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	347.6190476	190	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl Methacrylate	547.5	420	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	700	1.3	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	0.858621501	0.26	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iodomethane	- -	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutanol	1,825	4,600	ug/L	<40	<40	<40	<40	<40	<40	<40	<40
Methacrylonitrile	1.042857143	0.75	ug/L	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Methacrylate	1,419.444444	1,400	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	5	9.9	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	6.203966006	0.14	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	- -	0.56	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Propionitrile	- -	- -	ug/L	<20	<20	<20	<20	<20	<20	<20	<20
Styrene	100	1,100	ug/L	<1.0	<1.0	<1.0 *	<1.0 *	<1.0 *	<1.0 *	<1.0	<1.0 *
Tetrachloroethene	5	9.7	ug/L	<1.0	<1.0	<1.0	**0.16 J**	<1.0	<1.0	<1.0	<1.0
Toluene	1,000	860	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.7**	<1.0
trans-1,2-Dichloroethene	100	86	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	- -	0.0012	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	5	0.44	ug/L	<1.0	<1.0	<1.0	**0.41 J**	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	1,288.235294	1,100	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	412.1235491	410	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	2	0.015	ug/L	<1.0	<1.0	<1.0	**0.20 J**	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	10,000	190	ug/L	<2.0	<2.0	<2.0 *	<2.0 *	<2.0 *	<2.0 *	<2.0	<2.0 *

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
VOCs_8011											
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<0.020	<0.020	<0.020	<0.020	<0.021	<0.020	<0.021	<0.020
1,2-Dibromoethane	0.05	0.0065	ug/L	<0.020	<0.020	<0.020	<0.020	<0.021	<0.020	<0.021	<0.020
SVOCs_8270C											
1,1'-Biphenyl	304.1666667	0.83	ug/L	<0.96 B	<0.96 B	**2.9**	<2.0	**0.11 J**	**0.099 J**	**1.7**	**0.13 J**
1,2,4,5-Tetrachlorobenzene	10.95	1.2	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,2,4-Trichlorobenzene	70	0.99	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,2-Dichlorobenzene	600	280	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,3,5-Trinitrobenzene	1,095	460	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,3-Dichlorobenzene	5.475	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,3-Dinitrobenzene	3.65	1.5	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,4-Dichlorobenzene	75	0.42	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	**0.19 J**
1,4-Dioxane	6.088407006	0.67	ug/L	<1.9	**0.38 J**	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
1,4-Naphthoquinone	- -	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1-Naphthylamine	- -	- -	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
2,2'-Oxybis(1-Chloropropane)	0.2603888	0.31	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	**0.27 J**	<0.94
2,3,4,6-Tetrachlorophenol	1,095	170	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4,5-Trichlorophenol	3,650	890	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4,6-Trichlorophenol	6.088407006	3.5	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4-Dichlorophenol	109.5	35	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4-Dimethylphenol	730	270	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
2,4-Dinitrophenol	73	30	ug/L	<9.6	<9.6	<20	<20	<9.5	<9.7	<10	<9.4
2,4-Dinitrotoluene	73	0.2	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,6-Dichlorophenol	- -	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,6-Dinitrotoluene	36.5	15	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Acetylaminofluorene	- -	0.014	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Chloronaphthalene	486.6666667	550	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Chlorophenol	30.41666667	71	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Methylnaphthalene	121.6666667	27	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
2-Methylphenol	1,825	720	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
2-Naphthylamine	- -	0.033	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
2-Nitroaniline	0.417142857	150	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Nitrophenol	0.4161	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Picoline	- -	- -	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
3,3'-Dichlorobenzidine	0.148827727	0.11	ug/L	<19	<19	<40	<40	<19	<19	<21	<19
3,3'-Dimethylbenzidine	0.007279617	0.0056	ug/L	<19	<19	<40	<40	<19	<19	<21	<19
3-Methylcholanthrene	- -	0.00098	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
3-Nitroaniline	- -	- -	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4,6-Dinitro-2-methylphenol	3.65	1.2	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Aminobiphenyl	- -	0.0026	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Bromophenyl-phenylether	- -	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
4-Chloro-3-Methylphenol	73,000	1,100	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
4-Chloroaniline	146	0.32	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
4-Chlorophenyl-phenylether	- -	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
4-Methylphenol	182.5	1,400	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
4-Nitroaniline	- -	3.3	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Nitrophenol	292	- -	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Nitroquinoline-1-oxide	- -	- -	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
4-Phenylenediamine	6,935	3,000	ug/L	<190	<190	<400	<400	<190	<190	<210	<190
5-Nitro-o-toluidine	2.029469002	7	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
7,12-Dimethylbenz(a)anthracene	- -	0.000086	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
a,a'-Dimethylphenethylamine	- -	- -	ug/L	<9.6	<9.6	<20	<20	<9.5	<9.7	<10	<9.4
Acenaphthene	365	400	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Acenaphthylene	2,190	- -	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Acetophenone	0.041609526	1,500	ug/L	**0.11 J**	<0.96	**0.31 J**	<2.0	**0.10 J**	<0.97	**0.14 J**	**0.11 J**
Aniline	11.74955738	12	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Anthracene	43.4	1,300	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Aramite	- -	2.7	ug/L	<1.4	<1.4	<3.0	<3.0	<1.4	<1.5	<1.6	<1.4
Benzo(a)anthracene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzo(a)pyrene	0.2	0.0029	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzo(b)fluoranthene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzo(g,h,i)perylene	1,095	- -	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
Benzo(k)fluoranthene	0.917431193	0.29	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzyl Alcohol	10,950	1,500	ug/L	<0.96	<0.96	<2.0	<2.0	**0.14 J**	<0.97	<1.0	<0.94
bis(2-Chloroethoxy)methane	- -	47	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
bis(2-Chloroethyl)ether	0.009202473	0.012	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
bis(2-Ethylhexyl)phthalate	6	0.071	ug/L	<1.9	<1.9	**2.2 JB**	<4.0	<1.9	<1.9	**0.83 JB**	**0.61 JB**
Butylbenzylphthalate	2,690	14	ug/L	**0.12 J**	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Chrysene	9.174311927	2.9	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Diallate	- -	0.46	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Dibenzo(a,h)anthracene	0.009174312	0.0029	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Dibenzofuran	24.33333333	5.8	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Diethylphthalate	29,200	11,000	ug/L	**0.11 J**	**0.13 J**	<2.0	<2.0	<0.95	<0.97	<1.0	**0.26 J**
Dimethoate	- -	3.1	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Dimethylphthalate	365,000	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Di-n-Butylphthalate	3,650	670	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Di-n-Octylphthalate	20	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Dinoseb	7	11	ug/L	<1.9	<1.9	NA	<4.0	<1.9	<1.9	<2.1	<1.9
Diphenyl Ether	- -	- -	ug/L	**0.46 J**	**0.41 J**	NA	<2.0	<0.95	<0.97	**11**	**0.30 J**
Disulfoton	1.46	0.38	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Ethyl Methanesulfonate	- -	- -	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Ethyl Parathion	219	65	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Famphur	- -	- -	ug/L	R	R	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Fluoranthene	1,460	630	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Fluorene	243.3333333	220	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Hexachlorobenzene	1	0.042	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Hexachlorobutadiene	0.858621501	0.26	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Hexachlorocyclopentadiene	50	22	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Hexachloroethane	4.783748362	0.79	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Hexachlorophene	10.95	4.7	ug/L	<480	<480	<1,000	<990	<470	<490	<520	<470
Hexachloropropene	- -	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Indeno(1,2,3-cd)pyrene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Isophorone	70.49734428	67	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Isosafrole	- -	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Methapyrilene	- -	- -	ug/L	<190	<190	<400	<400	<190	<190	<210	<190
Methyl Methanesulfonate	- -	0.68	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Methyl Parathion	9.125	3.4	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Naphthalene	6.203966006	0.14	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	**0.36**	<0.19
Nitrobenzene	3.532258065	0.12	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosodiethylamine	0.000446483	0.00014	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosodimethylamine	0.001313186	0.00042	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitroso-di-n-butylamine	0.001894431	0.0024	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitroso-di-n-propylamine	0.009567497	0.0093	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosodiphenylamine	13.66785246	10	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosomethylethylamine	0.003044204	0.003	ug/L	<1.9	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
N-Nitrosomorpholine	- -	0.01	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosopiperidine	- -	0.0071	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosopyrrolidine	0.031891656	0.032	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
o,o,o-Triethylphosphorothioate	- -	- -	ug/L	**1.7**	**1.5**	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
o-Toluidine	0.279051988	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
p-Dimethylaminoazobenzene	- -	0.0043	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
Pentachlorobenzene	29.2	2.3	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Pentachloronitrobenzene	0.25758645	0.1	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Pentachlorophenol	1	0.17	ug/L	<4.8	<4.8	NA	<9.9	<4.7	<4.9	<5.2	<4.7
Phenacetin	- -	30	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Phenanthrene	1,095	- -	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Phenol	21,900	4,500	ug/L	<0.96	<0.96	**2.6**	<2.0	<0.95	<0.97	**5.9**	<0.94
Phorate	- -	2.3	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Pronamide	- -	900	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Pyrene	182.5	87	ug/L	<0.19	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Pyridine	36.5	15	ug/L	<4.8	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
Safrole	- -	0.062	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Sulfotep	- -	5.3	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Thionazin	- -	- -	ug/L	<0.96	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
Organochlorine Pest_8081											
4,4'-DDD	0.279051988	0.28	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
4,4'-DDE	0.196977874	0.2	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
4,4'-DDT	0.196977874	0.2	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
4-Chlorobenzilate	0.248046211	0.27	ug/L	NA	NA	<0.49	NA	NA	NA	NA	NA
Aldrin	0.003939557	0.00021	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Alpha-BHC	0.010630552	0.0062	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Beta-BHC	0.037206932	0.022	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Delta-BHC	- -	- -	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Dieldrin	0.00418578	0.0015	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
Endosulfan I	219	- -	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Endosulfan II	219	- -	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
Endosulfan Sulfate	- -	- -	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
Endrin	2	1.7	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
Endrin Aldehyde	- -	- -	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	0.2	0.036	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Heptachlor	0.4	0.0018	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Heptachlor Epoxide	0.2	0.0033	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Isodrin	- -	- -	ug/L	NA	NA	<0.049	NA	NA	NA	NA	NA
Kepone	- -	0.003	ug/L	NA	NA	<0.97	NA	NA	NA	NA	NA
Methoxychlor	40	27	ug/L	NA	NA	<0.097	NA	NA	NA	NA	NA
Technical Chlordane	2	- -	ug/L	NA	NA	<0.49	NA	NA	NA	NA	NA
Toxaphene	3	0.013	ug/L	NA	NA	<4.9	NA	NA	NA	NA	NA
PCBs_8082											
Aroclor-1016	0.956749672	0.96	ug/L	NA	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1221	0.033486239	0.0043	ug/L	NA	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1232	0.033486239	0.0043	ug/L	NA	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1242	0.033486239	0.034	ug/L	NA	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1248	0.033486239	0.034	ug/L	NA	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1254	0.033486239	0.034	ug/L	NA	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1260	0.033486239	0.034	ug/L	NA	NA	<0.38	NA	NA	NA	NA	NA
Herbicides_8151											
2,4,5-T	365	120	ug/L	NA	NA	<0.48	NA	NA	NA	NA	NA
2,4,5-TP	50	84	ug/L	NA	NA	<0.48	NA	NA	NA	NA	NA
2,4-D	70	130	ug/L	NA	NA	<0.48	NA	NA	NA	NA	NA
Dinoseb	7	11	ug/L	NA	NA	<5.7	NA	NA	NA	NA	NA
Pentachlorophenol	1	0.17	ug/L	NA	NA	<0.24	NA	NA	NA	NA	NA
Dioxathion/Dioxenethion_8310											
cis-Dioxathion	54.75	- -	ug/L	NA	NA	<2.5	NA	NA	NA	NA	NA
Dioxenethion	- -	- -	ug/L	NA	NA	<0.5	NA	NA	NA	NA	NA
trans-Dioxathion	54.75	- -	ug/L	NA	NA	<2.5	NA	NA	NA	NA	NA
Dioxins and Furans_8290											
1,2,3,4,6,7,8-HpCDD	44.6483	- -	pg/L	NA	NA	**2.9 J**	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	44.6483	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	44.6483	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	4.46483	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	10.802	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	10.802	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	4.46483	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	0.892966	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	8.92966	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	4.46483	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	0.892966	- -	pg/L	NA	NA	<48	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	0.52	pg/L	NA	NA	<9.5	NA	NA	NA	NA	NA
2,3,7,8-TCDF	4.46483	- -	pg/L	NA	NA	<9.5	NA	NA	NA	NA	NA
Octachlorodibenzofuran	446.483	- -	pg/L	NA	NA	<95	NA	NA	NA	NA	NA
Octachlorodibenzo-p-Dioxin	446.483	- -	pg/L	NA	NA	**26 BJ**	NA	NA	NA	NA	NA
Total Metals_6020											
Antimony	6	6	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	50	0.045	ug/L	**2.1 J**	**2.1 J**	**2.4 J**	**1.5 J**	**1.9 J**	**1.8 J**	<2.5	**1.7 J**

Table A-5. Summary of Surface Water Analytical Results, Human Helath Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
Barium	2,000	2,900	ug/L	**99**	**94**	**75**	**69**	**66**	**62**	**49**	**52**
Beryllium	4	16	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cadmium	5	6.9	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	- -	- -	ug/L	<5.0	**2.5 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	2,190	4.7	ug/L	**2.4**	**1.7**	**2.4**	**0.34 J**	**1.3**	**1.2**	**5.0**	**0.81**
Copper	1,300	620	ug/L	**6.4**	**5.4**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.0**
Lead	15	- -	ug/L	**1.1 J**	**1.0 J**	<1.5	<1.5	**1.5**	**1.8**	<1.5	**3.0**
Nickel	730	300	ug/L	**6.4**	**7.0**	**8.0**	**2.9 J**	**4.2 J**	**4.7 J**	**23**	**6.5**
Selenium	50	78	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Silver	182.5	71	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium	2	0.16	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	21,900	9,300	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	255.5	78	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Zinc	10,950	4,700	ug/L	**24**	**16 J**	**17 J**	**22**	**34**	**43**	**55**	**41**
Total Metals_7470											
Mercury	2	0.63	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cyanide											
Cyanide	0.2	0.0093	mg/L	NA	NA	<0.010	NA	NA	NA	NA	NA
Sulfide											
Sulfide	- -	- -	mg/L	NA	NA	<1.0	NA	NA	NA	NA	NA

RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

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Appendix A-6

Summary of Surface Water Analytical Results, Ecological Comparison Criteria

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09
VOCs Method 8260										
1,1,1,2-Tetrachloroethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,1,1-Trichloroethane	528	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,1,2,2-Tetrachloroethane	240	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,1,2-Trichloroethane	940	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,1-Dichloroethane	303	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,1-Dichloroethene	65	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,2,3-Trichloropropane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,2,4-Trichlorobenzene	44.9	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,2-Dibromo-3-chloropropane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,2-Dibromoethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,2-Dichloroethane	2,000	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,2-Dichloropropane	525	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
1,4-Dioxane	2,200	ug/L	<50	<50	<50	<50	<50	**58 [59]**	**69**	<50
2-Butanone	2,200	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10	<10
2-Chloro-1,3-butadiene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
2-Hexanone	99	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10	<10
3-Chloropropene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
4-Methyl-2-pentanone	170	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10	<10
Acetone	1,700	ug/L	<25	<25	<25	<25	<25	<25 [<25]	<25	<25
Acetonitrile	12,000	ug/L	<40	<40	<40	<40	<40	<40 [<40]	<40	<40
Acrolein	2.1	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20	<20
Acrylonitrile	75.5	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20	<20
Benzene	53	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5 [1.5]**	**0.33 J**	<1.0
Bromodichloromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Bromoform	293	ug/L	<1.0	<1.0 *	<1.0 *	<1.0 *	<1.0	<1.0 [<1]	<1.0	<1.0
Bromomethane	16	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Carbon Disulfide	15	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0
Carbon Tetrachloride	352	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Chlorobenzene	195	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Chloroethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Chloroform	289	ug/L	<1.0	<1.0	<1.0	<1.0	**0.30 J**	<1.0 [<1]	<1.0	<1.0
Chloromethane	5,500	ug/L	<1.0 *	<1.0 *	<1.0 *	<1.0 *	<1.0 J	<1.0 [<1]	<1.0	<1.0
cis-1,3-Dichloropropene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Dibromochloromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Dibromomethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Dichlorodifluoromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Ethyl Methacrylate	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Ethylbenzene	453	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Hexachlorobutadiene	0.93	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0 J	<1.0 [<1]	<1.0	<1.0
Iodomethane	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0
Isobutanol	- -	ug/L	<40	<40	<40	<40	<40	<40 [<40]	<40	<40
Methacrylonitrile	- -	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20	<20
Methyl Methacrylate	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Methylene Chloride	1,930	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0
Naphthalene	62	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0
Pentachloroethane	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0
Propionitrile	- -	ug/L	<20	<20	<20	<20	<20	<20 [<20]	<20	<20
Styrene	32	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Tetrachloroethene	45	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Toluene	175	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
trans-1,2-Dichloroethene	970	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
trans-1,3-Dichloropropene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
trans-1,4-Dichloro-2-butene	- -	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0
Trichloroethene	47	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Trichlorofluoromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Vinyl Acetate	248	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09
Vinyl Chloride	930	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Xylenes (total)	27	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [<2]	<2.0	<2.0
VOCs Method 8011										
1,2-Dibromo-3-chloropropane	- -	ug/L	<0.021	<0.021	<0.020	<0.020	<0.020	<0.020 [<0.02]	<0.020	<0.020
1,2-Dibromoethane	- -	ug/L	<0.021	<0.021	<0.020	<0.020	<0.020	<0.020 [<0.02]	<0.020	<0.020
SVOCs Method 8270C										
1,1'-Biphenyl	14	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96 B
1,2,4,5-Tetrachlorobenzene	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1,2,4-Trichlorobenzene	44.9	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1,2-Dichlorobenzene	15.8	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1,3,5-Trinitrobenzene	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1,3-Dichlorobenzene	50.2	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1,3-Dinitrobenzene	22	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1,4-Dichlorobenzene	11.2	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1,4-Dioxane	2,200	ug/L	<1.9	**0.31 J**	<1.9	**0.68 J**	<2.0	**44 [15]**	NA	<1.9
1,4-Naphthoquinone	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
1-Naphthylamine	- -	ug/L	<4.7	<4.8	<4.9	<4.9	R	<4.8 [<4.8]	<4.8	<4.8
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2,3,4,6-Tetrachlorophenol	1.2	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2,4,5-Trichlorophenol	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2,4,6-Trichlorophenol	3.2	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2,4-Dichlorophenol	36.5	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2,4-Dimethylphenol	100	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
2,4-Dinitrophenol	6.2	ug/L	<9.5	<9.6	<9.7	<9.9	<9.8	<9.6 [<9.5]	<9.7	<9.6
2,4-Dinitrotoluene	310	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2,6-Dichlorophenol	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2,6-Dinitrotoluene	81	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2-Acetylaminofluorene	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2-Chloronaphthalene	0.396	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2-Chlorophenol	43.8	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2-Methylnaphthalene	329.55	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
2-Methylphenol	67	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
2-Naphthylamine	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8	<4.8
2-Nitroaniline	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
2-Nitrophenol	3,500	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
2-Picoline	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
3,3'-Dichlorobenzidine	4.5	ug/L	<19	<19	<19	<20	R	<19 [<19]	<19	<19
3,3'-Dimethylbenzidine	- -	ug/L	<19	<19	<19	<20	R	<19 [<19]	<19	<19
3-Methylcholanthrene	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
3-Nitroaniline	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8	<4.8
4,6-Dinitro-2-methylphenol	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8	<4.8
4-Aminobiphenyl	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8	<4.8
4-Bromophenyl-phenylether	1.5	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
4-Chloro-3-Methylphenol	34.8	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
4-Chloroaniline	232	ug/L	<1.9	<1.9	<1.9	<2.0	R	<1.9 [<1.9]	<1.9	<1.9
4-Chlorophenyl-phenylether	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
4-Methylphenol	25	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
4-Nitroaniline	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8	<4.8
4-Nitrophenol	82.8	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8	<4.8
4-Nitroquinoline-1-oxide	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
4-Phenylenediamine	- -	ug/L	<190	<190	<190	<200	R	<190 [<190]	<190	<190
5-Nitro-o-toluidine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
7,12-Dimethylbenz(a)anthracene	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
a,a'-Dimethylphenethylamine	- -	ug/L	<9.5	<9.6	<9.7	<9.9	<9.8	<9.6 [<9.5]	<9.7	<9.6
Acenaphthene	17	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Acenaphthylene	4,840	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Acetophenone	- -	ug/L	<0.95	<0.96	<0.97	**0.15 JB**	<0.98	<0.96 [<0.95]	<0.97	**0.11 J**

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09
Aniline	4.1	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
Anthracene	0.035	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Aramite	- -	ug/L	<1.4	<1.4	<1.5	<1.5	<1.5	<1.4 [<1.4]	<1.5	<1.4
Benzo(a)anthracene	0.025	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Benzo(a)pyrene	0.014	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Benzo(b)fluoranthene	9.07	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Benzo(g,h,i)perylene	7.64	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Benzo(k)fluoranthene	- -	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Benzyl Alcohol	8.6	ug/L	<0.95	<0.96	<0.97	**0.18 J**	<0.98	<0.96 [<0.95]	<0.97	<0.96
bis(2-Chloroethoxy)methane	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
bis(2-Chloroethyl)ether	2,380	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
bis(2-Ethylhexyl)phthalate	0.3	ug/L	<1.9	**0.88 J**	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
Butylbenzylphthalate	22	ug/L	<0.95	**0.13 J**	**0.14 J**	<0.99	<0.98	<0.96 [<0.95]	<0.97	**0.12 J**
Chrysene	- -	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Diallate	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Dibenzo(a,h)anthracene	- -	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Dibenzofuran	4	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Diethylphthalate	521	ug/L	<0.95	**0.36 J**	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	**0.11 J**
Dimethoate	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0 J	<1.9 [<1.9]	<1.9	<1.9
Dimethylphthalate	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Di-n-Butylphthalate	9.7	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Di-n-Octylphthalate	30	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Dinoseb	0.48	ug/L	NA	NA	<1.9	<2.0	NA	NA	<1.9	<1.9
Diphenyl Ether	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	**0.46 J**
Disulfoton	0.0402	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
Ethyl Methanesulfonate	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
Ethyl Parathion	0.013	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
Famphur	- -	ug/L	<0.95	<0.96	<0.97	<0.99	R	<0.96 [<0.95]	R	R
Fluoranthene	39.8	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Fluorene	19	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Hexachlorobenzene	0.0003	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Hexachlorobutadiene	0.93	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Hexachlorocyclopentadiene	0.07	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
Hexachloroethane	9.8	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Hexachlorophene	- -	ug/L	<470	<480	<490	<490	<490	<480 [<480]	<480	<480
Hexachloropropene	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Indeno(1,2,3-cd)pyrene	4.31	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Isophorone	1,170	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Isosafrole	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
Methapyrilene	- -	ug/L	<190	<190	<190	<200	<200	<190 [<190]	<190	<190
Methyl Methanesulfonate	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
Methyl Parathion	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Naphthalene	62	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Nitrobenzene	270	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitrosodiethylamine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitrosodimethylamine	117	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitroso-di-n-butylamine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitroso-di-n-propylamine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitrosodiphenylamine	58.5	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitrosomethylethylamine	- -	ug/L	<1.9	<1.9	<1.9	<2.0	<2.0	<1.9 [<1.9]	<1.9	<1.9
N-Nitrosomorpholine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitrosopiperidine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
N-Nitrosopyrrolidine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
o,o,o-Triethylphosphorothioate	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	**2.2**	**1.7**
o-Toluidine	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
p-Dimethylaminoazobenzene	- -	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9 J	<4.8 [<4.8]	<4.8	<4.8
Pentachlorobenzene	50	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09
Pentachloronitrobenzene	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Pentachlorophenol	6.7	ug/L	NA	NA	<4.9	<4.9	NA	NA	<4.8	<4.8
Phenacetin	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Phenanthrene	3.6	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Phenol	102	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Phorate	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Pronamide	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98 J	<0.96 [<0.95]	<0.97	<0.96
Pyrene	0.3	ug/L	<0.19	<0.19	<0.19	<0.20	<0.20	<0.19 [<0.19]	<0.19	<0.19
Pyridine	2,380	ug/L	<4.7	<4.8	<4.9	<4.9	<4.9	<4.8 [<4.8]	<4.8	<4.8
Safrole	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Sulfotep	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Thionazin	- -	ug/L	<0.95	<0.96	<0.97	<0.99	<0.98	<0.96 [<0.95]	<0.97	<0.96
Organochlorine Pest Method 8081										
4,4'-DDD	0.0064	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
4,4'-DDE	10.5	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
4,4'-DDT	0.001	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
4-Chlorobenzilate	- -	ug/L	<0.49	<0.50	NA	NA	<0.47	<0.48 [<0.48]	NA	NA
Aldrin	0.3	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Alpha-BHC	500	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Beta-BHC	5,000	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Delta-BHC	667	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Dieldrin	0.056	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
Endosulfan I	0.056	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Endosulfan II	0.056	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
Endosulfan Sulfate	0.056	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
Endrin	0.036	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
Endrin Aldehyde	0.15	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
Gamma-BHC (Lindane)	0.08	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Heptachlor	0.0038	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Heptachlor Epoxide	0.0038	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Isodrin	- -	ug/L	<0.049	<0.050	NA	NA	<0.047	<0.048 [<0.048]	NA	NA
Kepone	- -	ug/L	<0.98	<1.0	NA	NA	<0.93	<0.96 [<0.95]	NA	NA
Methoxychlor	0.03	ug/L	<0.098	<0.10	NA	NA	<0.093	<0.096 [<0.095]	NA	NA
Technical Chlordane	0.0043	ug/L	<0.49	<0.50	NA	NA	<0.47	<0.48 [<0.48]	NA	NA
Toxaphene	- -	ug/L	<4.9	<5.0	NA	NA	<4.7	<4.8 [<4.8]	NA	NA
PCBs Method 8082										
Aroclor-1016	0.014	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA	NA
Aroclor-1221	0.014	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA	NA
Aroclor-1232	0.014	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA	NA
Aroclor-1242	0.014	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA	NA
Aroclor-1248	0.014	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA	NA
Aroclor-1254	0.014	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA	NA
Aroclor-1260	0.014	ug/L	<0.38	<0.38	NA	NA	<0.38	<0.38 [<0.38]	NA	NA
Herbicides Method 8151										
2,4,5-T	- -	ug/L	<0.48	<0.48	NA	NA	<0.48 J	<0.48 [<0.48]	NA	NA
2,4,5-TP	- -	ug/L	<0.48	<0.48	NA	NA	<0.48 J	<0.48 [<0.48]	NA	NA
2,4-D	220	ug/L	<0.48	<0.48	NA	NA	<0.48 J	<0.48 [<0.48]	NA	NA
Dinoseb	0.48	ug/L	<5.8	<5.8	NA	NA	<5.8	<5.8 [<5.8]	NA	NA
Pentachlorophenol	6.7	ug/L	<0.24	**0.063 J**	NA	NA	<0.24 J	<0.24 * [<0.24 *]	NA	NA
Dioxathion/Dioxenethion Method 8310										
cis-Dioxathion	- -	ug/L	NA	NA	NA	NA	<2.63	<2.78 [<2.55 J]	NA	NA
Dioxenethion	- -	ug/L	NA	NA	NA	NA	<0.526	<0.556 [0.582 J]	NA	NA
trans-Dioxathion	- -	ug/L	NA	NA	NA	NA	<2.63	<2.78 [<2.55 J]	NA	NA
Dioxins and Furans Method 8290										
1,2,3,4,6,7,8-HpCDD	- -	pg/L	**3.1 QJ**	<48	NA	NA	**1.5 J**	**2.4 QJ [<48]**	NA	NA
1,2,3,4,6,7,8-HpCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-01 (032012) 03/20/12 AO-SW-01	SW-AO-SW-02 (032012) 03/20/12 AO-SW-02	SW-AO-SW-03 (032012) 03/20/12 AO-SW-03	SW-AO-SW-04 (032012) 03/20/12 AO-SW-04	SW-AO-SW-05 (031612) 03/16/12 AO-SW-05	SW-AO-SW-06 (031512) 03/15/12 AO-SW-06	SW-AO-SW-07 (031412) 03/14/12 AO-SW-07	SW-AO-SW-09 (031412) 03/14/12 AO-SW-09
1,2,3,4,7,8,9-HpCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,4,7,8-HxCDD	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,4,7,8-HxCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,6,7,8-HxCDD	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,6,7,8-HxCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,7,8,9-HxCDD	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,7,8,9-HxCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,7,8-PeCDD	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
1,2,3,7,8-PeCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
2,3,4,6,7,8-HxCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
2,3,4,7,8-PeCDF	- -	pg/L	<48	<48	NA	NA	<48	<48 [<48]	NA	NA
2,3,7,8-TCDD	10	pg/L	<9.5	<9.5	NA	NA	<9.5	<9.5 [<9.5]	NA	NA
2,3,7,8-TCDF	- -	pg/L	<9.5	<9.5	NA	NA	<9.5	<9.5 [<9.5]	NA	NA
Octachlorodibenzofuran	- -	pg/L	<95	<95	NA	NA	<95	<95 [<95]	NA	NA
Octachlorodibenzo-p-Dioxin	- -	pg/L	**45 J**	**32 J**	NA	NA	**66 J**	**41 BJ [40 BJ]**	NA	NA
Total Metals Method 6020										
Antimony	160	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0
Arsenic	150	ug/L	**2.1 J**	**1.5 J**	**1.5 J**	**1.7 J**	**1.4 J**	**1.7 J [1.7 J]**	**1.8 J**	**2.1 J**
Barium	220	ug/L	**35**	**84**	**79**	**78**	**79**	**91 [96]**	**99**	**99**
Beryllium	0.53	ug/L	<0.50	**0.15 J**	<0.50	<0.50	<0.50	<0.50 [<0.5]	<0.50	<0.50
Cadmium	0.15	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 [<0.5]	<0.50	<0.50
Chromium	11	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0
Cobalt	24	ug/L	**0.39 J**	**1.1**	**0.47 J**	**0.46 J**	**0.38 J**	**1.1 [1.2]**	**1.3**	**2.4**
Copper	5	ug/L	**3.1 J**	**1.5 J**	**1.8 J**	**1.6 J**	**1.8 J**	**2.4 J [2.2 J]**	**5.3**	**6.4**
Lead	1.18	ug/L	<1.5	<1.5	<1.5	<1.5	**0.58 J**	<1.5 [<1.5]	**0.56 J**	**1.1 J**
Nickel	29	ug/L	<5.0	**2.0 J**	<5.0	**2.0 J**	<5.0	**5.0 [5]**	**6.5**	**6.4**
Selenium	4.6	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 [<2.5]	<2.5	<2.5
Silver	0.012	ug/L	**0.36 J**	<1.0	<1.0	<1.0	<1.0	<1.0 [<1]	<1.0	<1.0
Thallium	4	ug/L	<1.0	<1.0	<1.0	**0.26 J**	<1.0	<1.0 [<1]	<1.0	<1.0
Tin	180	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 [<5]	<5.0	<5.0
Vanadium	12	ug/L	<10	<10	<10	<10	<10	<10 [<10]	<10	<10
Zinc	65	ug/L	<20	**8.7 J**	<20	<20	<20	**10 J [11 J]**	**12 J**	**24**
Total Metals Method 7470										
Mercury	0.012	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 [<0.2]	<0.20	<0.20
Cyanide										
Cyanide	0.0052	mg/L	NA	NA	NA	NA	<0.010	<0.010 [<0.01]	NA	NA
Sulfide										
Sulfide	- -	mg/L	NA	NA	NA	NA	**1.8**	<1.0 [1.3]	NA	NA

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
VOCs Method 8260									
1,1,1,2-Tetrachloroethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	528	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	240	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	940	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	303	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	65	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	44.9	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	2,000	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	525	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	2,200	ug/L	<50	<50	<50	<50	<50	<50	<50
2-Butanone	2,200	ug/L	<10	<10	<10	<10	<10	<10	<10
2-Chloro-1,3-butadiene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	99	ug/L	<10	<10	<10	<10	<10	<10	<10
3-Chloropropene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	170	ug/L	<10	<10	<10	<10	<10	**2.3 J**	<10
Acetone	1,700	ug/L	<25	<25	<25	<25	<25	**7.8 J**	**12 J**
Acetonitrile	12,000	ug/L	<40	<40	<40	<40	<40	<40	<40
Acrolein	2.1	ug/L	<20	<20	<20	<20	<20	<20	<20
Acrylonitrile	75.5	ug/L	<20	<20	<20	<20	<20	<20	<20
Benzene	53	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	**14**	<1.0
Bromodichloromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	293	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	16	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	15	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	**3.0**	<2.0
Carbon Tetrachloride	352	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	**63**	<1.0
Chlorobenzene	195	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	**0.49 J**	<1.0
Chloroethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	289	ug/L	<1.0	<1.0	<1.0	<1.0	**0.25 J**	**30**	**0.45 J**
Chloromethane	5,500	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 *	<1.0
cis-1,3-Dichloropropene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl Methacrylate	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	453	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	0.93	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iodomethane	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutanol	- -	ug/L	<40	<40	<40	<40	<40	<40	<40
Methacrylonitrile	- -	ug/L	<20	<20	<20	<20	<20	<20	<20
Methyl Methacrylate	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	1,930	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	62	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Propionitrile	- -	ug/L	<20	<20	<20	<20	<20	<20	<20
Styrene	32	ug/L	<1.0	<1.0 *	<1.0 *	<1.0 *	<1.0 *	<1.0	<1.0 *
Tetrachloroethene	45	ug/L	<1.0	<1.0	**0.16 J**	<1.0	<1.0	<1.0	<1.0
Toluene	175	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	**4.7**	<1.0
trans-1,2-Dichloroethene	970	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	- -	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	47	ug/L	<1.0	<1.0	**0.41 J**	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	248	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
Vinyl Chloride	930	ug/L	<1.0	<1.0	**0.20 J**	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	27	ug/L	<2.0	<2.0 *	<2.0 *	<2.0 *	<2.0 *	<2.0	<2.0 *
VOCs Method 8011									
1,2-Dibromo-3-chloropropane	- -	ug/L	<0.020	<0.020	<0.020	<0.021	<0.020	<0.021	<0.020
1,2-Dibromoethane	- -	ug/L	<0.020	<0.020	<0.020	<0.021	<0.020	<0.021	<0.020
SVOCs Method 8270C									
1,1'-Biphenyl	14	ug/L	<0.96 B	**2.9**	<2.0	**0.11 J**	**0.099 J**	**1.7**	**0.13 J**
1,2,4,5-Tetrachlorobenzene	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,2,4-Trichlorobenzene	44.9	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,2-Dichlorobenzene	15.8	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,3,5-Trinitrobenzene	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,3-Dichlorobenzene	50.2	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,3-Dinitrobenzene	22	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1,4-Dichlorobenzene	11.2	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	**0.19 J**
1,4-Dioxane	2,200	ug/L	**0.38 J**	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
1,4-Naphthoquinone	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
1-Naphthylamine	- -	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	**0.27 J**	<0.94
2,3,4,6-Tetrachlorophenol	1.2	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4,5-Trichlorophenol	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4,6-Trichlorophenol	3.2	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4-Dichlorophenol	36.5	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,4-Dimethylphenol	100	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
2,4-Dinitrophenol	6.2	ug/L	<9.6	<20	<20	<9.5	<9.7	<10	<9.4
2,4-Dinitrotoluene	310	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,6-Dichlorophenol	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2,6-Dinitrotoluene	81	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Acetylaminofluorene	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Chloronaphthalene	0.396	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Chlorophenol	43.8	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Methylnaphthalene	329.55	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
2-Methylphenol	67	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
2-Naphthylamine	- -	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
2-Nitroaniline	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Nitrophenol	3,500	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
2-Picoline	- -	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
3,3'-Dichlorobenzidine	4.5	ug/L	<19	<40	<40	<19	<19	<21	<19
3,3'-Dimethylbenzidine	- -	ug/L	<19	<40	<40	<19	<19	<21	<19
3-Methylcholanthrene	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
3-Nitroaniline	- -	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4,6-Dinitro-2-methylphenol	- -	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Aminobiphenyl	- -	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Bromophenyl-phenylether	1.5	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
4-Chloro-3-Methylphenol	34.8	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
4-Chloroaniline	232	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
4-Chlorophenyl-phenylether	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
4-Methylphenol	25	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
4-Nitroaniline	- -	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Nitrophenol	82.8	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
4-Nitroquinoline-1-oxide	- -	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
4-Phenylenediamine	- -	ug/L	<190	<400	<400	<190	<190	<210	<190
5-Nitro-o-toluidine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
7,12-Dimethylbenz(a)anthracene	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
a,a'-Dimethylphenethylamine	- -	ug/L	<9.6	<20	<20	<9.5	<9.7	<10	<9.4
Acenaphthene	17	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Acenaphthylene	4,840	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Acetophenone	- -	ug/L	<0.96	**0.31 J**	<2.0	**0.10 J**	<0.97	**0.14 J**	**0.11 J**

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
Aniline	4.1	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Anthracene	0.035	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Aramite	- -	ug/L	<1.4	<3.0	<3.0	<1.4	<1.5	<1.6	<1.4
Benzo(a)anthracene	0.025	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzo(a)pyrene	0.014	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzo(b)fluoranthene	9.07	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzo(g,h,i)perylene	7.64	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzo(k)fluoranthene	- -	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Benzyl Alcohol	8.6	ug/L	<0.96	<2.0	<2.0	**0.14 J**	<0.97	<1.0	<0.94
bis(2-Chloroethoxy)methane	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
bis(2-Chloroethyl)ether	2,380	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
bis(2-Ethylhexyl)phthalate	0.3	ug/L	<1.9	**2.2 JB**	<4.0	<1.9	<1.9	**0.83 JB**	**0.61 JB**
Butylbenzylphthalate	22	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Chrysene	- -	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Diallate	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Dibenzo(a,h)anthracene	- -	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Dibenzofuran	4	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Diethylphthalate	521	ug/L	**0.13 J**	<2.0	<2.0	<0.95	<0.97	<1.0	**0.26 J**
Dimethoate	- -	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Dimethylphthalate	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Di-n-Butylphthalate	9.7	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Di-n-Octylphthalate	30	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Dinoseb	0.48	ug/L	<1.9	NA	<4.0	<1.9	<1.9	<2.1	<1.9
Diphenyl Ether	- -	ug/L	**0.41 J**	NA	<2.0	<0.95	<0.97	**11**	**0.30 J**
Disulfoton	0.0402	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Ethyl Methanesulfonate	- -	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Ethyl Parathion	0.013	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Famphur	- -	ug/L	R	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Fluoranthene	39.8	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Fluorene	19	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Hexachlorobenzene	0.0003	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Hexachlorobutadiene	0.93	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Hexachlorocyclopentadiene	0.07	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Hexachloroethane	9.8	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Hexachlorophene	- -	ug/L	<480	<1,000	<990	<470	<490	<520	<470
Hexachloropropene	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Indeno(1,2,3-cd)pyrene	4.31	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Isophorone	1,170	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Isosafrole	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Methapyrilene	- -	ug/L	<190	<400	<400	<190	<190	<210	<190
Methyl Methanesulfonate	- -	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
Methyl Parathion	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Naphthalene	62	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	**0.36**	<0.19
Nitrobenzene	270	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosodiethylamine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosodimethylamine	117	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitroso-di-n-butylamine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitroso-di-n-propylamine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosodiphenylamine	58.5	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosomethylethylamine	- -	ug/L	<1.9	<4.0	<4.0	<1.9	<1.9	<2.1	<1.9
N-Nitrosomorpholine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosopiperidine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
N-Nitrosopyrrolidine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
o,o,o-Triethylphosphorothioate	- -	ug/L	**1.5**	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
o-Toluidine	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
p-Dimethylaminoazobenzene	- -	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
Pentachlorobenzene	50	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94

Table A-6. Summary of Surface Water Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
Pentachloronitrobenzene	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Pentachlorophenol	6.7	ug/L	<4.8	NA	<9.9	<4.7	<4.9	<5.2	<4.7
Phenacetin	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Phenanthrene	3.6	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Phenol	102	ug/L	<0.96	**2.6**	<2.0	<0.95	<0.97	**5.9**	<0.94
Phorate	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Pronamide	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Pyrene	0.3	ug/L	<0.19	<0.40	<0.40	<0.19	<0.19	<0.21	<0.19
Pyridine	2,380	ug/L	<4.8	<10	<9.9	<4.7	<4.9	<5.2	<4.7
Safrole	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Sulfotep	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Thionazin	- -	ug/L	<0.96	<2.0	<2.0	<0.95	<0.97	<1.0	<0.94
Organochlorine Pest Method 8081									
4,4'-DDD	0.0064	ug/L	NA	<0.097	NA	NA	NA	NA	NA
4,4'-DDE	10.5	ug/L	NA	<0.097	NA	NA	NA	NA	NA
4,4'-DDT	0.001	ug/L	NA	<0.097	NA	NA	NA	NA	NA
4-Chlorobenzilate	- -	ug/L	NA	<0.49	NA	NA	NA	NA	NA
Aldrin	0.3	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Alpha-BHC	500	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Beta-BHC	5,000	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Delta-BHC	667	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Dieldrin	0.056	ug/L	NA	<0.097	NA	NA	NA	NA	NA
Endosulfan I	0.056	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Endosulfan II	0.056	ug/L	NA	<0.097	NA	NA	NA	NA	NA
Endosulfan Sulfate	0.056	ug/L	NA	<0.097	NA	NA	NA	NA	NA
Endrin	0.036	ug/L	NA	<0.097	NA	NA	NA	NA	NA
Endrin Aldehyde	0.15	ug/L	NA	<0.097	NA	NA	NA	NA	NA
Gamma-BHC (Lindane)	0.08	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Heptachlor	0.0038	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Heptachlor Epoxide	0.0038	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Isodrin	- -	ug/L	NA	<0.049	NA	NA	NA	NA	NA
Kepone	- -	ug/L	NA	<0.97	NA	NA	NA	NA	NA
Methoxychlor	0.03	ug/L	NA	<0.097	NA	NA	NA	NA	NA
Technical Chlordane	0.0043	ug/L	NA	<0.49	NA	NA	NA	NA	NA
Toxaphene	- -	ug/L	NA	<4.9	NA	NA	NA	NA	NA
PCBs Method 8082									
Aroclor-1016	0.014	ug/L	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1221	0.014	ug/L	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1232	0.014	ug/L	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1242	0.014	ug/L	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1248	0.014	ug/L	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1254	0.014	ug/L	NA	<0.38	NA	NA	NA	NA	NA
Aroclor-1260	0.014	ug/L	NA	<0.38	NA	NA	NA	NA	NA
Herbicides Method 8151									
2,4,5-T	- -	ug/L	NA	<0.48	NA	NA	NA	NA	NA
2,4,5-TP	- -	ug/L	NA	<0.48	NA	NA	NA	NA	NA
2,4-D	220	ug/L	NA	<0.48	NA	NA	NA	NA	NA
Dinoseb	0.48	ug/L	NA	<5.7	NA	NA	NA	NA	NA
Pentachlorophenol	6.7	ug/L	NA	<0.24	NA	NA	NA	NA	NA
Dioxathion/Dioxenethion Method 8310									
cis-Dioxathion	- -	ug/L	NA	<2.5	NA	NA	NA	NA	NA
Dioxenethion	- -	ug/L	NA	<0.5	NA	NA	NA	NA	NA
trans-Dioxathion	- -	ug/L	NA	<2.5	NA	NA	NA	NA	NA
Dioxins and Furans Method 8290									
1,2,3,4,6,7,8-HpCDD	- -	pg/L	NA	**2.9 J**	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA

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Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_WS	Units	SW-AO-SW-10 (031412) 03/14/12 AO-SW-10	SW-AO-SW-11 (031312) 03/13/12 AO-SW-11	SW-AO-SW-12 (031312) 03/13/12 AO-SW-12	SW-AO-SW-13 (031312) 03/13/12 AO-SW-13	SW-AO-SW-14 (031312) 03/13/12 AO-SW-14	SW-AO-SW-15 (031312) 03/13/12 AO-SW-15	SW-AO-SW-16 (031212) 03/12/12 AO-SW-16
1,2,3,4,7,8,9-HpCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	- -	pg/L	NA	<48	NA	NA	NA	NA	NA
2,3,7,8-TCDD	10	pg/L	NA	<9.5	NA	NA	NA	NA	NA
2,3,7,8-TCDF	- -	pg/L	NA	<9.5	NA	NA	NA	NA	NA
Octachlorodibenzofuran	- -	pg/L	NA	<95	NA	NA	NA	NA	NA
Octachlorodibenzo-p-Dioxin	- -	pg/L	NA	**26 BJ**	NA	NA	NA	NA	NA
Total Metals Method 6020									
Antimony	160	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	150	ug/L	**2.1 J**	**2.4 J**	**1.5 J**	**1.9 J**	**1.8 J**	<2.5	**1.7 J**
Barium	220	ug/L	**94**	**75**	**69**	**66**	**62**	**49**	**52**
Beryllium	0.53	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cadmium	0.15	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	11	ug/L	**2.5 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	24	ug/L	**1.7**	**2.4**	**0.34 J**	**1.3**	**1.2**	**5.0**	**0.81**
Copper	5	ug/L	**5.4**	<5.0	<5.0	<5.0	<5.0	<5.0	**5.0**
Lead	1.18	ug/L	**1.0 J**	<1.5	<1.5	**1.5**	**1.8**	<1.5	**3.0**
Nickel	29	ug/L	**7.0**	**8.0**	**2.9 J**	**4.2 J**	**4.7 J**	**23**	**6.5**
Selenium	4.6	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Silver	0.012	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium	4	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	180	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	12	ug/L	<10	<10	<10	<10	<10	<10	<10
Zinc	65	ug/L	**16 J**	**17 J**	**22**	**34**	**43**	**55**	**41**
Total Metals Method 7470									
Mercury	0.012	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cyanide									
Cyanide	0.0052	mg/L	NA	<0.010	NA	NA	NA	NA	NA
Sulfide									
Sulfide	- -	mg/L	NA	<1.0	NA	NA	NA	NA	NA

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

ARCADIS

Appendix A-7

Summary of Sediment Analytical Results, Human Health Comparison Criteria

Table A-7. Summary of Sediment Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
VOCs_8260												
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<10	<9.8	<12	<11	<11	<11 [<10]	<12
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	**2.6 J**	<25	<31	**4.6 J**	<27	<27 [<26]	<30
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<25	<25	<31	<27	<27	<27 [<26]	<30
3-Chloropropene	ug/kg	3,400	680	- -	- -	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<25	<25	<31	<27	<27	<27 [<26]	<30
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	**23 J**	**17 J**	<61	**22 J**	<54	<54 [<52 B]	<60 B
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<200	<200	<250	<220	<210	<220 [<210]	<240
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<100	<98	<120	<110	<110	<110 [<100]	<120
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<100	<98	<120	<110	<110	<110 [<100]	<120
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	**3.5 J**	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chloroform	ug/kg	1,500	290	478.05952	312.047672	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Iodomethane	ug/kg	- -	- -	- -	- -	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<200	<200	<250	<220	<210	<220 [<210]	<240
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<100	<98	<120	<110	<110	<110 [<100]	<120
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<10	<9.8	<12	<11	<11	<11 [<10]	<12
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<25	<25	<31	<27	<27	<27 [<26]	<30
Propionitrile	ug/kg	- -	- -	- -	- -	<100	<98	<120	<110	<110	<110 [<100]	<120
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<10	<9.8	<12	<11	<11	<11 [<10]	<12
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<10	<9.8	<12	<11	<11	<11 [<10]	<12
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<10	<9.8	<12	<11	<11	<11 [<10]	<12

Table A-7. Summary of Sediment Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
SVOCs_8270C												
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<720	<78	<810	<84	<800 J	<85 [<830]	<820
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1-Naphthylamine	ug/kg	- -	- -	- -	- -	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<360	<39	<400	<42	<400 J	<43 [<410]	<410
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<3,600	<390	<4,000	<420	<4,000 J	<430 [<4,100 J]	<4,100 J
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<360	<39	<400	<42	<400 J	<43 [<410]	<410
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<360	<39	<400	<42	<400 J	<43 [<410]	<410
2-Naphthylamine	ug/kg	960	270	- -	- -	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Picoline	ug/kg	- -	- -	- -	- -	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	<720	<78	<810	<84	<800 J	<85 [<830]	<820
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100]	<2,100
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
4-Aminobiphenyl	ug/kg	82	23	- -	- -	<720	<78	<810	<84	<800 J	<85 [<830]	<820
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<3,600	<390	<4,000	<420	<4,000 J	<430 [<4,100 J]	<4,100 J
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	<9,000	<980	<10,000	<1,100	R	R [R]	R
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<360	<39	<400	<42	<400 J	<43 [<410]	<410
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	<73,000	<7,900	<82,000	<8,500	<81,000 J	<8,700 [<84,000 J]	<83,000 J
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<73	**6.3 J**	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<360	<39	<400	<42	<400 J	<43 [<410]	<410
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<73	**3.9 J**	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Aramite	ug/kg	69,000	19,000	- -	- -	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J

Table A-7. Summary of Sediment Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	<73	<7.9	<82	<8.5	<81 J	**4.9 J [<84 J]**	<83 J
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	<73	**4.1 J**	<82	<8.5	<81 J	**5.7 J [<84 J]**	<83 J
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	<73	<7.9	<82	<8.5	<81 J	**4.9 J [<84 J]**	<83 J
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	<73	<7.9	<82	<8.5	<81 J	**5.1 J [<84 J]**	<83 J
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	<73	**3.5 J**	<82	<8.5	<81 J	**6.0 J [<84 J]**	<83 J
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	<360	<39	<400	<42	<400 J	**11 J [<410 J]**	<410 J
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	**890**	**31 J**	**490 J**	**12 J**	<800 J	<85 B [<830 J]	<820 J
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	**39 J**	<7.9	<82	<8.5	<81 J	**6.1 J [<84 J]**	<83 J
Diallate	ug/kg	28,000	8,000	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dimethoate	ug/kg	120,000	12,000	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Diphenyl Ether	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410]	<410
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Famphur	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<73	**6.4 J**	<82	<8.5	<81 J	**9.2 [<84 J]**	**62 J**
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<73	**7.0 J**	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	<180,000	<20,000	<210,000	<22,000	R	<22,000 [<210,000 J]	<210,000 J
Hexachloropropene	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	<73	<7.9	<82	<8.5	<81 J	**5.0 J [<84 J]**	<83 J
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Isosafrole	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Methapyrilene	ug/kg	- -	- -	- -	- -	<73,000	<7,900	<82,000	<8,500	<81,000 J	<8,700 [<84,000]	<83,000
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<360	<39	<400	<42	<400 J	<43 [<410]	<410
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<360	<39	<400	<42	<400 J	<43 [<410]	<410
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<360	<39	<400	<42	<400 J	<43 [<410]	<410
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<360	<39	<400	<42	<400 J	<43 [<410]	<410
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J

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Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
Phenacetin	ug/kg	780,000	220,000	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	<73	**12**	<82	<8.5	<81 J	<8.7 [<84 J]	**44 J**
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Phorate	ug/kg	120,000	12,000	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	<73	**6.2 J**	<82	<8.5	<81 J	**7.1 J [<84 J]**	**45 J**
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Safrole	ug/kg	7,800	520	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410]	<410
Sulfotep	ug/kg	310,000	31,000	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Thionazin	ug/kg	- -	- -	- -	- -	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Organochlorine Pest_8081												
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [0.57 J]	<4.1
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<18	<20	<21	<22	<21	<22 [<21]	<21
Aldrin	ug/kg	100	29	336.658824	37.57212	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1221	ug/kg	540	140	10,000	1,000	<72	<79	<82	<85	<81	<86 [<84]	<83
Aroclor-1232	ug/kg	540	140	10,000	1,000	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1242	ug/kg	740	220	10,000	1,000	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1248	ug/kg	740	220	10,000	1,000	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1254	ug/kg	740	220	10,000	1,000	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1260	ug/kg	740	220	10,000	1,000	<36	<39	<40	<42	<40	<42 [<41]	<41
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Delta-BHC	ug/kg	- -	- -	- -	- -	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Dieldrin	ug/kg	110	30	357.7	39.920378	**0.77 Jp**	<3.9	<4.0	<4.2	**1.2 J**	<4.2 [<4.1]	**0.52 J**
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Heptachlor	ug/kg	380	110	194.614481	127.03229	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Isodrin	ug/kg	- -	- -	- -	- -	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Kepone	ug/kg	170	49	- -	- -	<180	<200	<210	<220	<210	<220 [<210]	<210
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<18	<20	<21	<22	<21	<22 [<21]	<21
Total PCBs	ug/kg	740	220	10,000	1,000	<36	<39	<40	<42	<40	<42 [<41]	<41
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<180	<200	<210	<220	<210	<220 [<210]	<210
Herbicides_8151												
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<8.9	<9.8	<10	<11	<10	<11 [<10]	<10
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<8.9	<9.8	<10	<11	<10	<11 [<10]	<10
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<8.9	<9.8	<10	<11	<10	<11 [<10]	<10
Dioxathion/Dioxenethion_8310												
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**437**	**634**	<84.8	<83.4	**415**	<83.8 [<85]	**229 J**
Dioxenethion	ug/kg	- -	- -	- -	- -	**1,080**	<16.8	**136**	<16.7	<16.8	**51.2 J [169 J]**	**17.1**
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	<83.5	<83.8	<84.8	<83.4	**118**	<83.8 [<85]	<0.506
Dioxins and Furans_8290												
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**35**	**20**	**12**	**14**	**19**	**23 [13]**	**16**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	**7.4**	**3.6 J**	**2.6 J**	<6.3	**2.9 J**	**3.9 J [2.4 J]**	**3.4 J**
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	<5.4	<5.9	<6.2	<6.3	<4.9	**0.35 J [<4.9]**	<4.9
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	**0.96 J**	**0.30 QJ**	<6.2	<6.3	**0.52 J**	**0.58 J [<4.9]**	**0.48 J**

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Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**0.39 QJ**	**0.31 J**	<6.2	<6.3	<4.9	**0.35 J [<4.9]**	**0.34 J**
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	**1.9 J**	**0.94 J**	**0.57 QJ**	**0.63 QJ**	**1.2 J**	**1.1 J [0.6 J]**	**0.59 J**
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**1.0 QJ**	**0.63 J**	**0.31 QJ**	<6.3	**0.25 J**	**0.48 J [<4.9]**	**0.45 J**
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	**1.6 QJ**	**0.60 QJ**	**0.43 QJ**	**1.0 J**	**0.48 J**	**0.85 J [0.5 J]**	**0.75 J**
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	<1.1	<1.2	<1.2	<1.3	<0.99	<0.99 [<0.98]	<0.98
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	<1.1	<1.2	<1.2	<1.3	<0.99	<0.99 [<0.98]	<0.98
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	**23**	**5.1 SJ**	**4.5 J**	<13	**4.9 J**	**10 [4.8 J]**	**5.0 J**
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**420 B**	**410 B**	**120 B**	**130 B**	**280 J**	**240 B [100 B]**	**120 B**
Total Metals_6020												
Antimony	mg/kg	410	31	81.66666667	31.28571429	<2.0	<2.3	<2.2	<2.5	<2.4	<2.4 [<2.5]	<2.3
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**14**	**4.3**	**5.8**	**3.2**	**2.2**	**0.60 [0.32 J]**	**0.76**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**760**	**67**	**24**	**74**	**10**	**8.0 J [4.7 J]**	**8.3 J**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**1.9**	**0.42**	**0.30**	**4.2**	**0.21**	**0.12 [<0.12]**	**0.11 J**
Cadmium	mg/kg	800	70	1,022	39.10714286	**0.093 J**	<0.12	<0.11	**0.11 J**	<0.12	<0.12 [<0.12]	<0.12
Chromium	mg/kg	- -	- -	- -	- -	**30**	**6.0**	**4.4**	**12**	**4.1**	**1.8 [1.1 J]**	**1.9**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**140**	**3.2**	**1.5**	**9.4**	**1.6**	**0.67 J [0.37 J]**	**0.91 J**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**10**	**1.7**	**1.2**	**10**	**1.4**	**1.1 J [0.71 J]**	**1.1 J**
Lead	mg/kg	800	400	1,700	400	**74**	**16**	**5.3**	**8.4**	**4.4**	**3.5 [2.2]**	**3.0**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**10**	**1.1 J**	**1.3**	**20**	**2.5**	**1.3 [0.72 J]**	**1.8**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	**0.79 J**	<1.2	<1.1	<1.3	<1.2	<1.2 [<1.2]	<1.2
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	<0.20	<0.23	<0.22	<0.25	<0.24	<0.24 [<0.25]	<0.23
Thallium	mg/kg	10	0.78	143.08	5.475	**0.52**	<0.23	<0.22	**0.19 J**	<0.24	<0.24 [<0.25]	<0.23
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	<20	<23	<22	<25	<24	<24 [<25]	<23
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**55**	**12**	**10**	**21**	**6.0 J**	**2.3 [1.7]**	**2.9**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**19**	**8.6**	**8.2**	**59**	**10 J**	**6.5 J [4.9 J]**	**7.5 J**
Total Metals_7471												
Mercury	mg/kg	43	10	61.25	10	<0.021	<0.024	<0.022	<0.025	<0.023	<0.025 [<0.021]	<0.025
Cyanide												
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	<0.54	<0.58	**0.25 J**	**0.38 J**	<0.60	<0.62 [<0.62]	<0.60
Sulfide												
Sulfide	mg/kg	- -	- -	- -	- -	<57	<63	<70	<54	<73	<77 [<68]	<58
General Chemistry												
Percent Moisture	%	- -	- -	- -	- -	**9.4**	**17.0**	**21.9**	**22.6**	**17.7**	**17.7 [24.2]**	**17.7**
Total Solids	% passing	- -	- -	- -	- -	**93.1**	**83.3**	**83**	**77.7**	**85.3**	NA	NA
Total Solids	%dw	- -	- -	- -	- -	NA	NA	NA	NA	NA	**81.8 [83.2]**	**84.8**

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-7. Summary of Sediment Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
VOCs_8260												
1,1,1,2-Tetrachloroethane	ug/kg	9,300	1,900	220,123.0769	24,566.38645	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1,1-Trichloroethane	ug/kg	38,000,000	8,700,000	1,188,304.811	1,188,304.811	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1,2,2-Tetrachloroethane	ug/kg	2,800	560	1,004.735257	655.829001	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1,2-Trichloroethane	ug/kg	5,300	1,100	1,674.242013	1,092.841582	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1-Dichloroethane	ug/kg	17,000	3,300	115,743.5024	115,743.5024	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1-Dichloroethene	ug/kg	1,100,000	240,000	118.302042	77.220252	<5.4	<5.2	**3.7 J**	<13	<6.6	<4.8	<4.5
1,2,3-Trichloropropane	ug/kg	95	5	817.6	91.246578	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,2-Dibromo-3-chloropropane	ug/kg	69	5.4	99.926439	99.926439	<11	<10	<12	<27	<13	<9.6	<9.0
1,2-Dibromoethane	ug/kg	170	34	67.331765	7.514424	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,2-Dichloroethane	ug/kg	2,200	430	621.405291	405.614921	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,2-Dichloropropane	ug/kg	4,700	940	445.050482	445.050482	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
2-Butanone	ug/kg	200,000,000	28,000,000	84,515.1334	84,515.1334	<27	<26	**14 J**	**51 J**	**8.0 J**	**5.7 J**	**4.8 J**
2-Chloro-1,3-butadiene	ug/kg	47	9.4	4,083,333.333	1,564,285.714	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
2-Hexanone	ug/kg	1,400,000	210,000	81,760,000	3,128,571.429	<27	<26	<29	<67	<33	<24	<22
3-Chloropropene	ug/kg	3,400	680	- -	- -	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
4-Methyl-2-pentanone	ug/kg	53,000,000	5,300,000	163,333,333.3	6,257,142.857	<27	<26	<29	<67	<33	<24	<22
Acetone	ug/kg	630,000,000	61,000,000	103,751,000	7,821,428.571	<54 B	<52	**96**	**360**	**100**	**66**	**34 J**
Acetonitrile	ug/kg	3,700,000	870,000	111,488.1032	111,488.1032	<210	<210	<230	<540	<260	<190	<180
Acrolein	ug/kg	650	150	40,880,000	1,564,285.714	<110	<100	<120	<270	<130	<96	<90
Acrylonitrile	ug/kg	1,200	240	10,598.51852	1,182.826014	<110	<100	<120	<270	<130	<96	<90
Benzene	ug/kg	5,400	1,100	1,358.397751	886.677992	<5.4	<5.2	<5.8	<13	<6.6	**150**	<4.5
Bromodichloromethane	ug/kg	1,400	270	1,893.579211	1,236.011331	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Bromoform	ug/kg	220,000	62,000	90,128.52711	58,830.32521	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Bromomethane	ug/kg	32,000	7,300	2,968	2,968	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Carbon Disulfide	ug/kg	3,700,000	820,000	7,969.865193	7,969.865193	<5.4	<5.2	**3.3 J**	**11 J**	<6.6	**12**	**3.3 J**
Carbon Tetrachloride	ug/kg	3,000	610	568.568976	371.126644	<5.4	<5.2	<5.8	<13	<6.6	**1.6 J**	<4.5
Chlorobenzene	ug/kg	1,400,000	290,000	1,194.86876	1,194.86876	<5.4	<5.2	<5.8	<13	<6.6	**36**	<4.5
Chloroethane	ug/kg	61,000,000	15,000,000	1,973,517.241	220,250.3613	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Chloroform	ug/kg	1,500	290	478.05952	312.047672	<5.4	<5.2	<5.8	<13	<6.6	**1.9 J**	<4.5
Chloromethane	ug/kg	500,000	120,000	440,246.1538	49,132.77291	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
cis-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Dibromochloromethane	ug/kg	3,300	680	68,133.33333	7,603.881521	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Dibromomethane	ug/kg	110,000	25,000	20,416,666.67	782,142.8571	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Dichlorodifluoromethane	ug/kg	400,000	94,000	408,800,000	15,642,857.14	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Ethyl Methacrylate	ug/kg	7,500,000	1,500,000	18,375,000	7,039,285.714	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Ethylbenzene	ug/kg	27,000	5,400	395,315.7654	395,315.7654	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Iodomethane	ug/kg	- -	- -	- -	- -	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Isobutanol	ug/kg	180,000,000	18,000,000	612,500,000	23,464,285.71	<210	<210	<230	<540	<260	<190	<180
Methacrylonitrile	ug/kg	18,000	3,200	204,166.6667	7,821.428571	<110	<100	<120	<270	<130	<96	<90
Methyl Methacrylate	ug/kg	21,000,000	4,800,000	16,333,333.33	16,333,333.33	<11	<10	<12	<27	<13	<9.6	<9.0
Methylene Chloride	ug/kg	960,000	56,000	21,905.95926	14,298.85463	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Pentachloroethane	ug/kg	19,000	5,400	- -	- -	<27	<26	<29	<67	<33	<24	<22
Propionitrile	ug/kg	- -	- -	- -	- -	<110	<100	<120	<270	<130	<96	<90
Styrene	ug/kg	36,000,000	6,300,000	383,545.5354	383,545.5354	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Tetrachloroethene	ug/kg	110,000	22,000	18,161.69301	11,854.82932	<5.4	<5.2	**150**	<13	<6.6	<4.8	<4.5
Toluene	ug/kg	45,000,000	5,000,000	37,980.65289	37,980.65289	<5.4	<5.2	**1.2 J**	**3.6 J**	**2.6 J**	**3.2 J**	**2.9 J**
trans-1,2-Dichloroethene	ug/kg	690,000	150,000	3,073,666.981	1,564,285.714	<5.4	<5.2	**12**	<13	<6.6	<4.8	<4.5
trans-1,3-Dichloropropene	ug/kg	- -	- -	- -	- -	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
trans-1,4-Dichloro-2-butene	ug/kg	35	6.9	- -	- -	<11	<10	<12	<27	<13	<9.6	<9.0
Trichloroethene	ug/kg	6,400	910	7,917.65949	5,168.158158	<5.4	<5.2	**34**	<13	<6.6	<4.8	<4.5
Trichlorofluoromethane	ug/kg	3,400,000	790,000	142,916,666.7	23,464,285.71	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Vinyl Acetate	ug/kg	4,100,000	970,000	9,126.459867	9,126.459867	<11	<10	<12	<27	<13	<9.6	<9.0
Vinyl Chloride	ug/kg	1,700	60	938.916586	425.817365	<5.4	<5.2	**63**	<13	<6.6	<4.8	<4.5
Xylenes (total)	ug/kg	2,700,000	630,000	317,562.8302	317,562.8302	<11	<10	<12	<27	<13	<9.6	<9.0

Table A-7. Summary of Sediment Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
SVOCs_8270C												
1,1'-Biphenyl	ug/kg	210,000	51,000	10,208,333.33	3,910,714.286	<44	<42	<410 J	**380 J**	<54	**4,200 J**	<390 J
1,2,4,5-Tetrachlorobenzene	ug/kg	180,000	18,000	612,500	23,464.28571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,2,4-Trichlorobenzene	ug/kg	99,000	22,000	823,591.0055	782,142.8571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,2-Dichlorobenzene	ug/kg	9,800,000	1,900,000	279,215.6971	279,215.6971	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,3,5-Trinitrobenzene	ug/kg	27,000,000	2,200,000	102,083.3333	102,083.3333	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
1,3-Dichlorobenzene	ug/kg	- -	- -	1,839,600	70,392.85714	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,3-Dinitrobenzene	ug/kg	62,000	6,100	204,166.6667	7,821.428571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,4-Dichlorobenzene	ug/kg	12,000	2,400	238,466.6667	26,613.58532	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,4-Dioxane	ug/kg	17,000	4,900	520,290.9091	58,066.00434	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,4-Naphthoquinone	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1-Naphthylamine	ug/kg	- -	- -	- -	- -	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
2,2'-Oxybis(1-Chloropropane)	ug/kg	22,000	4,600	9,084.857382	5,930.032714	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,3,4,6-Tetrachlorophenol	ug/kg	18,000,000	1,800,000	61,250,000	2,346,428.571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4,5-Trichlorophenol	ug/kg	62,000,000	6,100,000	204,400,000	7,821,428.571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4,6-Trichlorophenol	ug/kg	160,000	44,000	314,446.8866	58,066.00434	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4-Dichlorophenol	ug/kg	1,800,000	180,000	612,500	234,642.8571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4-Dimethylphenol	ug/kg	12,000,000	1,200,000	40,833,333.33	1,564,285.714	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
2,4-Dinitrophenol	ug/kg	1,200,000	120,000	408,333.3333	156,428.5714	<440	<420	<4,100 J	<7,700 J	<540	<3,800 J	<3,900 J
2,4-Dinitrotoluene	ug/kg	5,500	1,600	408,333.3333	156,428.5714	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,6-Dichlorophenol	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,6-Dinitrotoluene	ug/kg	620,000	61,000	2,041,666.667	78,214.28571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Acetylaminofluorene	ug/kg	450	130	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Chloronaphthalene	ug/kg	82,000,000	6,300,000	163,520,000	6,257,142.857	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Chlorophenol	ug/kg	5,100,000	390,000	10,208,333.33	391,071.4286	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Methylnaphthalene	ug/kg	2,200,000	230,000	40,880,000	1,564,285.714	<8.9	<8.4	<84 J	<160 J	<11	<76 J	<80 J
2-Methylphenol	ug/kg	31,000,000	3,100,000	102,200,000	3,910,714.286	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Naphthylamine	ug/kg	960	270	- -	- -	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
2-Nitroaniline	ug/kg	6,000,000	610,000	491.587777	491.587777	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
2-Nitrophenol	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Picoline	ug/kg	- -	- -	- -	- -	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
3,3'-Dichlorobenzidine	ug/kg	3,800	1,100	12,718.22222	1,419.391217	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
3,3'-Dimethylbenzidine	ug/kg	160	44	622.086957	69.426744	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
3-Methylcholanthrene	ug/kg	78	5.2	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
3-Nitroaniline	ug/kg	- -	- -	- -	- -	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4,6-Dinitro-2-methylphenol	ug/kg	49,000	4,900	204,400	7,821.428571	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4-Aminobiphenyl	ug/kg	82	23	- -	- -	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
4-Bromophenyl-phenylether	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
4-Chloro-3-Methylphenol	ug/kg	62,000,000	6,100,000	408,333,333.3	156,428,571.4	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
4-Chloroaniline	ug/kg	8,600	2,400	816,666.6667	312,857.1429	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
4-Chlorophenyl-phenylether	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
4-Methylphenol	ug/kg	62,000,000	6,100,000	10,220,000	391,071.4286	<44	<42	<410 J	<770 J	**29 J**	<380 J	<390 J
4-Nitroaniline	ug/kg	86,000	24,000	- -	- -	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4-Nitrophenol	ug/kg	- -	- -	16,352,000	625,714.2857	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4-Nitroquinoline-1-oxide	ug/kg	- -	- -	- -	- -	<440	<420 J	<4,100 J	<7,700 J	<540	<3,800 J	<3,900 J
4-Phenylenediamine	ug/kg	120,000,000	12,000,000	388,360,000	14,860,714.29	R	R	<10,000 J	<19,000 J	<1,300	<9,500 J	<9,900 J
5-Nitro-o-toluidine	ug/kg	190,000	54,000	173,430.303	19,355.33478	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
7,12-Dimethylbenz(a)anthracene	ug/kg	6.2	0.43	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
a,a'-Dimethylphenethylamine	ug/kg	- -	- -	- -	- -	<8,900	R	<84,000 J	<160,000 J	<11,000	<76,000 J	<80,000 J
Acenaphthene	ug/kg	33,000,000	3,400,000	122,500,000	4,692,857.143	<8.9	<8.4	<84 J	<160 J	**6.3 J**	<76 J	<80 J
Acenaphthylene	ug/kg	- -	- -	122,640,000	4,692,857.143	<8.9	<8.4	<84 J	<160 J	<11	<76 J	<80 J
Acetophenone	ug/kg	100,000,000	7,800,000	2,632,769.579	2,632,769.579	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Aniline	ug/kg	300,000	85,000	1,004,070.175	112,057.2014	<88	<83	<830 J	<1,500 J	<110	<750 J	**140 J**
Anthracene	ug/kg	170,000,000	17,000,000	612,500,000	23,464,285.71	<8.9	<8.4	<84 J	<160 J	**9.4 J**	<76 J	<80 J
Aramite	ug/kg	69,000	19,000	- -	- -	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J

Table A-7. Summary of Sediment Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
Benzo(a)anthracene	ug/kg	2,100	150	7,840	874.967189	**17**	**4.6 J**	<84 J	<160 J	**38**	<76 J	<80 J
Benzo(a)pyrene	ug/kg	210	15	784	87.496719	**22**	**7.2 J**	<84 J	<160 J	**41**	<76 J	<80 J
Benzo(b)fluoranthene	ug/kg	2,100	150	7,840	874.967189	**30**	**9.6**	<84 J	**160 J**	**56**	<76 J	<80 J
Benzo(g,h,i)perylene	ug/kg	- -	- -	61,320,000	2,346,428.571	**16**	**5.6 J**	<84 J	<160 J	**27**	<76 J	<80 J
Benzo(k)fluoranthene	ug/kg	21,000	1,500	78,400	8,749.671887	**14**	**7.8 J**	<84 J	<160 J	**43**	<76 J	<80 J
Benzyl Alcohol	ug/kg	62,000,000	6,100,000	204,166,666.7	23,464,285.71	**9.4 J**	**15 J**	**140 J**	<770 J	**16 J**	<380 J	<390 J
bis(2-Chloroethoxy)methane	ug/kg	1,800,000	180,000	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
bis(2-Chloroethyl)ether	ug/kg	1,000	210	418.695583	273.298567	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
bis(2-Ethylhexyl)phthalate	ug/kg	120,000	35,000	408,800	45,623.28913	<88 B	<83 B	<830 JB	<1,500 B	<110 B	<750 J	<790 BJ
Butylbenzylphthalate	ug/kg	910,000	260,000	928,319.0263	928,319.0263	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Chrysene	ug/kg	210,000	15,000	784,000	87,496.71887	**26**	**8.2 J**	<84 J	<160 J	**49**	<76 J	<80 J
Diallate	ug/kg	28,000	8,000	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dibenzo(a,h)anthracene	ug/kg	210	15	784	87.496719	<8.9	<8.4	<84 J	<160 J	**12**	<76 J	<80 J
Dibenzofuran	ug/kg	1,000,000	78,000	8,176,000	312,857.1429	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Diethylphthalate	ug/kg	490,000,000	49,000,000	1,974,243.782	1,974,243.782	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dimethoate	ug/kg	120,000	12,000	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dimethylphthalate	ug/kg	- -	- -	20,440,000,000	782,142,857.1	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Di-n-Butylphthalate	ug/kg	62,000,000	6,100,000	2,279,200	2,279,200	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
Di-n-Octylphthalate	ug/kg	- -	- -	4,083,333.333	1,564,285.714	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dinoseb	ug/kg	620,000	61,000	204,166.6667	78,214.28571	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
Diphenyl Ether	ug/kg	- -	- -	- -	- -	<44	<42	**260 J**	**5,000 J**	**36 J**	**28,000 EJ**	**250 J**
Disulfoton	ug/kg	25,000	2,400	8,166.666667	3,128.571429	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Ethyl Methanesulfonate	ug/kg	- -	- -	- -	- -	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
Ethyl Parathion	ug/kg	3,700,000	370,000	1,225,000	469,285.7143	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Famphur	ug/kg	- -	- -	- -	- -	<44	<42 J	<410 J	<770 J	<54	<380 J	<390 J
Fluoranthene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	**41**	**14**	**54 J**	**180 J**	**70**	<76 J	<80 J
Fluorene	ug/kg	22,000,000	2,300,000	81,666,666.67	3,128,571.429	<8.9	<8.4	<84 J	<160 J	**6.3 J**	<76 J	<80 J
Hexachlorobenzene	ug/kg	1,100	300	1,652.954258	399.20378	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Hexachlorobutadiene	ug/kg	22,000	6,200	135.124777	88.201093	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Hexachlorocyclopentadiene	ug/kg	3,700,000	370,000	950.504879	950.504879	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
Hexachloroethane	ug/kg	43,000	12,000	93,343.42197	45,623.28913	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Hexachlorophene	ug/kg	180,000	18,000	612,500	23,464.28571	<23,000	<21,000	<210,000 J	<390,000 J	<28,000	<190,000 J	<200,000 J
Hexachloropropene	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Indeno(1,2,3-cd)pyrene	ug/kg	2,100	150	7,840	874.967189	**14**	**5.4 J**	<84 J	<160 J	**30 J**	<76 J	<80 J
Isophorone	ug/kg	1,800,000	510,000	4,570,217.902	672,343.2082	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Isosafrole	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Methapyrilene	ug/kg	- -	- -	- -	- -	<8,900	<8,400	<84,000 J	<160,000 J	<11,000	<76,000 J	<80,000 J
Methyl Methanesulfonate	ug/kg	17,000	4,900	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Methyl Parathion	ug/kg	150,000	15,000	408,333.3333	19,553.57143	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Naphthalene	ug/kg	18,000	3,600	247,080.2903	193,534.4685	<8.9	<8.4	<84 J	<160 J	**7.5 J**	<76 J	<80 J
Nitrobenzene	ug/kg	24,000	4,800	8,405.812055	8,405.812055	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosodiethylamine	ug/kg	11	0.77	38.154667	4.258174	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
N-Nitrosodimethylamine	ug/kg	34	2.3	112.219608	12.52404	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitroso-di-n-butylamine	ug/kg	400	87	1,059.851852	118.282601	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitroso-di-n-propylamine	ug/kg	250	69	817.6	91.246578	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosodiphenylamine	ug/kg	350,000	99,000	1,168,000	130,352.2546	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosomethylethylamine	ug/kg	78	22	260.145455	29.033002	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosomorpholine	ug/kg	260	73	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosopiperidine	ug/kg	180	52	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosopyrrolidine	ug/kg	820	230	2,725.333333	304.155261	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
o,o,o-Triethylphosphorothioate	ug/kg	- -	- -	- -	- -	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
o-Toluidine	ug/kg	- -	- -	23,846.66667	2,661.358532	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
p-Dimethylaminoazobenzene	ug/kg	370	110	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pentachlorobenzene	ug/kg	490,000	49,000	1,633,333.333	62,571.42857	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pentachloronitrobenzene	ug/kg	6,600	1,900	22,012.30769	2,456.638645	<44	<42	<410 J	<770 J	<54	<380 J	<390 J

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Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
Pentachlorophenol	ug/kg	2,700	890	23,846.66667	2,661.358532	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
Phenacetin	ug/kg	780,000	220,000	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Phenanthrene	ug/kg	- -	- -	61,320,000	2,346,428.571	**15**	**3.4 J**	<84 J	<160 J	**22**	<76 J	<80 J
Phenol	ug/kg	180,000,000	18,000,000	122,500,000	46,928,571.43	<44	<42	<410 J	<770 J	<54	**93 J**	<390 J
Phorate	ug/kg	120,000	12,000	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pronamide	ug/kg	46,000,000	4,600,000	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pyrene	ug/kg	17,000,000	1,700,000	61,250,000	2,346,428.571	**34**	**13**	<84 J	**130 J**	**66**	<76 J	<80 J
Pyridine	ug/kg	1,000,000	78,000	2,041,666.667	78,214.28571	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Safrole	ug/kg	7,800	520	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Sulfotep	ug/kg	310,000	31,000	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Thionazin	ug/kg	- -	- -	- -	- -	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Organochlorine Pest_8081												
4,4'-DDD	ug/kg	7,200	2,000	23,846.66667	2,661.358532	<4.4	<4.1	**16**	<7.6	<5.4	<3.8	<3.9
4,4'-DDE	ug/kg	5,100	1,400	16,832.94118	1,878.606023	<4.4	<4.1	**7.2 J**	**5.1 J**	**0.81 J**	<3.8	<3.9
4,4'-DDT	ug/kg	7,000	1,700	16,832.94118	1,878.606023	<4.4	**0.74 J**	**4.8 J**	**13 JN**	<5.4	<3.8	<3.9
4-Chlorobenzilate	ug/kg	16,000	4,400	21,197.03704	2,365.652029	<23	<21	<21	<39	<28	<19	<20
Aldrin	ug/kg	100	29	336.658824	37.57212	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Alpha-BHC	ug/kg	270	77	908.444444	101.385087	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Aroclor-1016	ug/kg	21,000	3,900	10,000	1,000	<44	<41	<41	<76	<54	<38	<39
Aroclor-1221	ug/kg	540	140	10,000	1,000	<89	<84	<84	<150	<110	<77	<80
Aroclor-1232	ug/kg	540	140	10,000	1,000	<44	<41	<41	<76	<54	<38	<39
Aroclor-1242	ug/kg	740	220	10,000	1,000	<44	<41	<41	<76	<54	<38	<39
Aroclor-1248	ug/kg	740	220	10,000	1,000	<44	<41	<41	<76	<54	<38	<39
Aroclor-1254	ug/kg	740	220	10,000	1,000	<44	<41	<41	<76	<54	<38	<39
Aroclor-1260	ug/kg	740	220	10,000	1,000	<44	<41	<41	<76	<54	**66 J**	<39
Beta-BHC	ug/kg	960	270	3,179.555556	354.847804	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Delta-BHC	ug/kg	- -	- -	- -	- -	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Dieldrin	ug/kg	110	30	357.7	39.920378	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	**2.0 J**
Endosulfan I	ug/kg	- -	- -	1,225,000	469,285.7	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Endosulfan II	ug/kg	- -	- -	1,225,000	469,285.7	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Endosulfan Sulfate	ug/kg	- -	- -	- -	- -	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Endrin	ug/kg	180,000	18,000	61,250	23,464.28571	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Endrin Aldehyde	ug/kg	- -	- -	- -	- -	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Gamma-BHC (Lindane)	ug/kg	2,100	520	4,402.461538	491.327729	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Heptachlor	ug/kg	380	110	194.614481	127.03229	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Heptachlor Epoxide	ug/kg	190	53	628.923077	70.189676	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Isodrin	ug/kg	- -	- -	- -	- -	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Kepone	ug/kg	170	49	- -	- -	<230	<210	<210	<390	<280	<190	<200
Methoxychlor	ug/kg	3,100,000	310,000	1,020,833.333	391,071.4286	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Technical Chlordane	ug/kg	- -	- -	12,250	1,824.931565	<23	<21	<21	<39	<28	<19	<20
Total PCBs	ug/kg	740	220	10,000	1,000	<44	<41	<41	<76	<54	**66 J**	<39
Toxaphene	ug/kg	1,600	440	5,202.909091	580.660043	<230	<210	<210	<390	<280	<190	<200
Herbicides_8151												
2,4,5-T	ug/kg	6,200,000	610,000	20,416,666.67	782,142.8571	<11	<10	R	<19	<13	<9.6	<9.8
2,4,5-TP	ug/kg	4,900,000	490,000	1,633,333.333	625,714.2857	<11	<10	R	<19 J	<13 J	<9.6 J	<9.8 J
2,4-D	ug/kg	7,700,000	690,000	2,041,666.667	782,142.8571	<11	<10	R	<19	<13	<9.6	<9.8
Dioxathion/Dioxenethion_8310												
cis-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**1,260 J**	<82.6	**453 J**	**1,470 J**	**1,270 J**	**328 J**	**1,530 J**
Dioxenethion	ug/kg	- -	- -	- -	- -	<0.503	**34.4**	**589**	<0.507	<0.51	**204**	<0.502
trans-Dioxathion	ug/kg	- -	- -	3,066,000	117,321.4286	**74.7**	<82.6	**190**	<0.507	<0.51	**264**	**93.3**
Dioxins and Furans_8290												
1,2,3,4,6,7,8-HpCDD	pg/g	- -	- -	3,815.467	425.817	**200**	**13**	**230 J**	**1,400**	**130 J**	**28 J**	**200 J**
1,2,3,4,6,7,8-HpCDF	pg/g	- -	- -	3,815.467	425.817	**18 Q**	**2.2 J**	**36 J**	**170**	**16 J**	**5.2 J**	**60 J**
1,2,3,4,7,8,9-HpCDF	pg/g	- -	- -	3,815.467	425.817	**1.3 J**	<4.9	**2.8 J**	**16**	**1.1 J**	<4.8 J	**8.4 J**
1,2,3,4,7,8-HxCDD	pg/g	- -	- -	381.547	42.5817	**0.83 J**	<4.9	**3.7 J**	**17**	**1.3 J**	**0.61 J**	**1.4 J**

Table A-7. Summary of Sediment Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	Units	RSL INDUSTRIAL SOIL	RSL RESIDENT SOIL	SOIL TIER 1 TRG RESTRICTED	SOIL TIER 1 TRG UNRESTRICTED	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
1,2,3,4,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**0.71 J**	<4.9	**3.4 J**	**9.8**	**1.3 J**	**0.80 J**	**2.4 J**
1,2,3,6,7,8-HxCDD	pg/g	- -	- -	923.097	103.02	**2.7 J**	**0.67 J**	**9.1 J**	**49**	**3.9 J**	**2.0 J**	**7.6 J**
1,2,3,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**0.73 J**	**0.13 J**	**6.2 J**	**23 Q**	**1.7 J**	**0.89 J**	**3.9 J**
1,2,3,7,8,9-HxCDD	pg/g	- -	- -	923.097	103.02	**1.9 J**	**0.46 J**	**9.0 J**	**40 J**	**12 J**	**1.5 J**	**3.6 J**
1,2,3,7,8,9-HxCDF	pg/g	- -	- -	381.547	42.5817	<4.9	<4.9	<4.9 J	**0.43 J**	<4.8 J	<4.8 J	<4.8 J
1,2,3,7,8-PeCDD	pg/g	- -	- -	76.3093	8.51635	**0.40 J**	<4.9	**2.0 J**	**7.7 Q**	**0.52 J**	**0.41 J**	<4.8 J
1,2,3,7,8-PeCDF	pg/g	- -	- -	763.093	85.1635	<4.9	<4.9	<4.9 J	**1.7 J**	<4.8 J	<4.8 J	<4.8 J
2,3,4,6,7,8-HxCDF	pg/g	- -	- -	381.547	42.5817	**0.40 J**	<4.9	**1.5 J**	**5.5 J**	**0.42 J**	<4.8 J	**0.67 J**
2,3,4,7,8-PeCDF	pg/g	- -	- -	76.3093	8.51635	<4.9	<4.9	**0.79 J**	**2.9 J**	<4.8 J	**0.31 J**	<4.8 J
2,3,7,8-TCDD	pg/g	18	4.5	38.1547	4.25817	<0.99	<0.97	<0.98 J	**0.27 J**	<0.97 J	<0.96 J	<0.97 J
2,3,7,8-TCDF	pg/g	- -	- -	381.547	42.5817	<0.99	<0.97	**0.46 J**	**2.7 Q**	<0.97 J	**0.46 J**	**0.26 J**
Octachlorodibenzofuran	pg/g	- -	- -	38,154.667	4,258.174	**100**	**3.7 J**	**77 J**	**450 S**	**38 J**	**10 J**	**460 J**
Octachlorodibenzo-p-Dioxin	pg/g	- -	- -	38,154.667	4,258.174	**3,500 B**	**120 B**	**2,400 J**	**12,000 EJ**	**1,700 J**	**410 J**	**1,800 J**
Total Metals_6020												
Antimony	mg/kg	410	31	81.66666667	31.28571429	<2.6	<2.3	<2.5	<4.5	<3.1	<2.0	<2.2
Arsenic	mg/kg	1.6	0.39	3.815466667	0.425817365	**1.6**	**0.46 J**	**2.0**	**7.4**	**3.9**	**1.9**	**1.9**
Barium	mg/kg	190,000	15,000	14,291.66667	5,475	**18 J**	**6.5 J**	**18**	**99**	**65**	**15**	**30**
Beryllium	mg/kg	2,000	160	1,020.833333	156.4285714	**0.17**	<0.11	**0.089 J**	**0.47**	**0.30**	**0.17**	**0.081 J**
Cadmium	mg/kg	800	70	1,022	39.10714286	**0.057 J**	**0.035 J**	**0.19**	**0.73**	**0.10 J**	**0.079 J**	**0.12**
Chromium	mg/kg	- -	- -	- -	- -	**2.4**	**1.2**	**3.3 J**	**18 J**	**9.7 J**	**8.8 J**	**3.4 J**
Cobalt	mg/kg	300	23	12,250	4,692.857143	**1.2**	**0.47**	**1.2 J**	**8.3 J**	**4.2 J**	**180 J**	**1.3 J**
Copper	mg/kg	41,000	3,100	8,166.666667	3,128.571429	**2.9 J**	**0.78 J**	**12**	**55**	**5.6**	**10**	**11**
Lead	mg/kg	800	400	1,700	400	**87**	**1.6**	**30 J**	**86 J**	**30 J**	**8.9 J**	**6.5 J**
Nickel	mg/kg	20,000	1,500	4,083.333333	1,564.285714	**1.8**	<1.1	**3.2**	**23**	**8.4**	**530**	**4.2**
Selenium	mg/kg	5,100	390	1,020.833333	391.0714286	<1.3	<1.1	<1.2	<2.3	<1.5	<1.0	<1.1
Silver	mg/kg	5,100	390	1,020.833333	391.0714286	<0.26	<0.23	**0.32**	**1.7**	<0.31	<0.20	<0.22
Thallium	mg/kg	10	0.78	143.08	5.475	<0.26	<0.23	<0.25	**0.21 J**	**0.24 J**	<0.20	<0.22
Tin	mg/kg	610,000	47,000	122,500	46,928.57143	<26	<23	<25	<45	<31	<20	<22
Vanadium	mg/kg	5,200	390	1,429.166667	547.5	**3.5**	**1.5**	**4.0 J**	**23 J**	**14 J**	**6.8 J**	**4.8 J**
Zinc	mg/kg	310,000	23,000	61,250	23,464.28571	**14 J**	**4.9 J**	**180**	**670**	**42**	**51**	**44**
Total Metals_7471												
Mercury	mg/kg	43	10	61.25	10	<0.026	<0.024	**0.028**	**0.18**	**0.030**	**0.063**	<0.022
Cyanide												
Cyanide	mg/kg	610	47	4,083.333333	1,564.285714	**0.46 J**	<0.60	<0.60	**0.63 J**	<0.78	**0.63**	<0.57
Sulfide												
Sulfide	mg/kg	- -	- -	- -	- -	<69	<68	<66	<130	<88	<61	<58
General Chemistry												
Percent Moisture	%	- -	- -	- -	- -	**23.9**	**17.6**	**20.0**	**62.6**	**31.6**	**18.2**	**18.1**
Total Solids	% passing	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA
Total Solids	%dw	- -	- -	- -	- -	**77.9**	**82.7**	**82.2**	**42.7**	**80.9**	**83.2**	**82.5**

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

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Appendix A-8

Summary of Sediment Analytical Results, Ecological Comparison Criteria

Table A-8. Summary of Sediment Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
VOCs_8260									
1,1,1,2-Tetrachloroethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1,1-Trichloroethane	213	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1,2,2-Tetrachloroethane	850	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1,2-Trichloroethane	518	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1-Dichloroethane	0.575	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,1-Dichloroethene	19.4	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2,3-Trichloropropane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2-Dibromo-3-chloropropane	- -	ug/kg	<10	<9.8	<12	<11	<11	<11 [<10]	<12
1,2-Dibromoethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2-Dichloroethane	260	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
1,2-Dichloropropane	333	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
2-Butanone	42.4	ug/kg	**2.6 J**	<25	<31	**4.6 J**	<27	<27 [<26]	<30
2-Chloro-1,3-butadiene	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
2-Hexanone	58.2	ug/kg	<25	<25	<31	<27	<27	<27 [<26]	<30
3-Chloropropene	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
4-Methyl-2-pentanone	25.1	ug/kg	<25	<25	<31	<27	<27	<27 [<26]	<30
Acetone	9.9	ug/kg	**23 J**	**17 J**	<61	**22 J**	<54	<54 [<52 B]	<60 B
Acetonitrile	56	ug/kg	<200	<200	<250	<220	<210	<220 [<210]	<240
Acrolein	0.00152	ug/kg	<100	<98	<120	<110	<110	<110 [<100]	<120
Acrylonitrile	1.2	ug/kg	<100	<98	<120	<110	<110	<110 [<100]	<120
Benzene	141.57	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Bromodichloromethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Bromoform	492	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Bromomethane	0.137	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Carbon Disulfide	23.9	ug/kg	**3.5 J**	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Carbon Tetrachloride	1,450	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chlorobenzene	291	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chloroethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chloroform	121	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Chloromethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
cis-1,3-Dichloropropene	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Dibromochloromethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Dibromomethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Dichlorodifluoromethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Ethyl Methacrylate	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Ethylbenzene	175	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Iodomethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Isobutanol	- -	ug/kg	<200	<200	<250	<220	<210	<220 [<210]	<240
Methacrylonitrile	- -	ug/kg	<100	<98	<120	<110	<110	<110 [<100]	<120
Methyl Methacrylate	- -	ug/kg	<10	<9.8	<12	<11	<11	<11 [<10]	<12
Methylene Chloride	159	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Pentachloroethane	- -	ug/kg	<25	<25	<31	<27	<27	<27 [<26]	<30
Propionitrile	- -	ug/kg	<100	<98	<120	<110	<110	<110 [<100]	<120
Styrene	254	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Tetrachloroethene	990	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Toluene	1,220	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
trans-1,2-Dichloroethene	654	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
trans-1,3-Dichloropropene	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
trans-1,4-Dichloro-2-butene	- -	ug/kg	<10	<9.8	<12	<11	<11	<11 [<10]	<12
Trichloroethene	112	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Trichlorofluoromethane	- -	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Vinyl Acetate	13	ug/kg	<10	<9.8	<12	<11	<11	<11 [<10]	<12
Vinyl Chloride	202	ug/kg	<5.0	<4.9	<6.1	<5.4	<5.4	<5.4 [<5.2]	<6.0
Xylenes (total)	433	ug/kg	<10	<9.8	<12	<11	<11	<11 [<10]	<12

Table A-8. Summary of Sediment Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
SVOCs_8270C									
1,1'-Biphenyl	1,220	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,2,4,5-Tetrachlorobenzene	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,2,4-Trichlorobenzene	5,062	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,2-Dichlorobenzene	294	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,3,5-Trinitrobenzene	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830]	<820
1,3-Dichlorobenzene	1,315	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,3-Dinitrobenzene	8.61	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
1,4-Dichlorobenzene	318	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,4-Dioxane	119	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1,4-Naphthoquinone	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
1-Naphthylamine	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
2,2'-Oxybis(1-Chloropropane)	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,3,4,6-Tetrachlorophenol	129	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,4,5-Trichlorophenol	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
2,4,6-Trichlorophenol	208	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,4-Dichlorophenol	81.7	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,4-Dimethylphenol	304	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
2,4-Dinitrophenol	6.21	ug/kg	<3,600	<390	<4,000	<420	<4,000 J	<430 [<4,100 J]	<4,100 J
2,4-Dinitrotoluene	14.4	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,6-Dichlorophenol	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2,6-Dinitrotoluene	39.8	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Acetylaminofluorene	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Chloronaphthalene	417	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Chlorophenol	31.9	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
2-Methylnaphthalene	330	ug/kg	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
2-Methylphenol	55.4	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
2-Naphthylamine	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
2-Nitroaniline	- -	ug/kg	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
2-Nitrophenol	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
2-Picoline	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
3,3'-Dichlorobenzidine	127	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830]	<820
3,3'-Dimethylbenzidine	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
3-Methylcholanthrene	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
3-Nitroaniline	- -	ug/kg	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100]	<2,100
4,6-Dinitro-2-methylphenol	- -	ug/kg	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
4-Aminobiphenyl	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830]	<820
4-Bromophenyl-phenylether	1,550	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Chloro-3-Methylphenol	388	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Chloroaniline	146	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
4-Chlorophenyl-phenylether	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Methylphenol	20.2	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
4-Nitroaniline	- -	ug/kg	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
4-Nitrophenol	13.3	ug/kg	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
4-Nitroquinoline-1-oxide	- -	ug/kg	<3,600	<390	<4,000	<420	<4,000 J	<430 [<4,100 J]	<4,100 J
4-Phenylenediamine	- -	ug/kg	<9,000	<980	<10,000	<1,100	R	R [R]	R
5-Nitro-o-toluidine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
7,12-Dimethylbenz(a)anthracene	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
a,a'-Dimethylphenethylamine	- -	ug/kg	<73,000	<7,900	<82,000	<8,500	<81,000 J	<8,700 [<84,000 J]	<83,000 J
Acenaphthene	330	ug/kg	<73	**6.3 J**	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Acenaphthylene	330	ug/kg	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Acetophenone	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
Aniline	0.31	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Anthracene	330	ug/kg	<73	**3.9 J**	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Aramite	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J

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Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-01 (03-20-2012) 03/20/12 AO-SD-01	SD-AO-SD-02 (03-20-2012) 03/20/12 AO-SD-02	SD-AO-SD-03 (03-20-2012) 03/20/12 AO-SD-03	SD-AO-SD-04 (03-20-2012) 03/20/12 AO-SD-04	SD-AO-SD-05 (03-16-2012) 03/16/12 AO-SD-05	SD-AO-SD-06 03/15/12 AO-SD-06	SD-AO-SD-07 03/14/12 AO-SD-07
Benzo(a)anthracene	330	ug/kg	<73	<7.9	<82	<8.5	<81 J	**4.9 J [<84 J]**	<83 J
Benzo(a)pyrene	330	ug/kg	<73	**4.1 J**	<82	<8.5	<81 J	**5.7 J [<84 J]**	<83 J
Benzo(b)fluoranthene	10,400	ug/kg	<73	<7.9	<82	<8.5	<81 J	**4.9 J [<84 J]**	<83 J
Benzo(g,h,i)perylene	170	ug/kg	<73	<7.9	<82	<8.5	<81 J	**5.1 J [<84 J]**	<83 J
Benzo(k)fluoranthene	240	ug/kg	<73	**3.5 J**	<82	<8.5	<81 J	**6.0 J [<84 J]**	<83 J
Benzyl Alcohol	1.04	ug/kg	<360	<39	<400	<42	<400 J	**11 J [<410 J]**	<410 J
bis(2-Chloroethoxy)methane	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
bis(2-Chloroethyl)ether	3,520	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
bis(2-Ethylhexyl)phthalate	182	ug/kg	**890**	**31 J**	**490 J**	**12 J**	<800 J	<85 B [<830 J]	<820 J
Butylbenzylphthalate	1,970	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Chrysene	330	ug/kg	**39 J**	<7.9	<82	<8.5	<81 J	**6.1 J [<84 J]**	<83 J
Diallate	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dibenzo(a,h)anthracene	330	ug/kg	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Dibenzofuran	449	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Diethylphthalate	295	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dimethoate	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dimethylphthalate	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Di-n-Butylphthalate	1,114	ug/kg	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
Di-n-Octylphthalate	40,600	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Dinoseb	14.5	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Diphenyl Ether	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
Disulfoton	324	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Ethyl Methanesulfonate	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Ethyl Parathion	0.757	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Famphur	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Fluoranthene	330	ug/kg	<73	**6.4 J**	<82	<8.5	<81 J	**9.2 [<84 J]**	**62 J**
Fluorene	330	ug/kg	<73	**7.0 J**	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Hexachlorobenzene	20	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Hexachlorobutadiene	26.5	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Hexachlorocyclopentadiene	901	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
Hexachloroethane	584	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Hexachlorophene	- -	ug/kg	<180,000	<20,000	<210,000	<22,000	R	<22,000 [<210,000 J]	<210,000 J
Hexachloropropene	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Indeno(1,2,3-cd)pyrene	200	ug/kg	<73	<7.9	<82	<8.5	<81 J	**5.0 J [<84 J]**	<83 J
Isophorone	432	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Isosafrole	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Methapyrilene	- -	ug/kg	<73,000	<7,900	<82,000	<8,500	<81,000 J	<8,700 [<84,000]	<83,000
Methyl Methanesulfonate	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Methyl Parathion	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Naphthalene	330	ug/kg	<73	<7.9	<82	<8.5	<81 J	<8.7 [<84 J]	<83 J
Nitrobenzene	145	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
N-Nitrosodiethylamine	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
N-Nitrosodimethylamine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitroso-di-n-butylamine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
N-Nitroso-di-n-propylamine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosodiphenylamine	2,680	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosomethylethylamine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosomorpholine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosopiperidine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
N-Nitrosopyrrolidine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
o,o,o-Triethylphosphorothioate	- -	ug/kg	<720	<78	<810	<84	<800 J	<85 [<830 J]	<820 J
o-Toluidine	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
p-Dimethylaminoazobenzene	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pentachlorobenzene	24	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pentachloronitrobenzene	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J

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Pentachlorophenol	23,000	ug/kg	<1,800	<200	<2,100	<220	<2,100 J	<220 [<2,100 J]	<2,100 J
Phenacetin	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Phenanthrene	330	ug/kg	<73	**12**	<82	<8.5	<81 J	<8.7 [<84 J]	**44 J**
Phenol	49.1	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Phorate	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pronamide	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Pyrene	330	ug/kg	<73	**6.2 J**	<82	<8.5	<81 J	**7.1 J [<84 J]**	**45 J**
Pyridine	106	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Safrole	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410]	<410
Sulfotep	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Thionazin	- -	ug/kg	<360	<39	<400	<42	<400 J	<43 [<410 J]	<410 J
Organochlorine Pest_8081									
4,4'-DDD	3.3	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
4,4'-DDE	3.3	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
4,4'-DDT	3.3	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [0.57 J]	<4.1
4-Chlorobenzilate	- -	ug/kg	<18	<20	<21	<22	<21	<22 [<21]	<21
Aldrin	2	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Alpha-BHC	6	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Aroclor-1016	59.8	ug/kg	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1221	67,000	ug/kg	<72	<79	<82	<85	<81	<86 [<84]	<83
Aroclor-1232	59.8	ug/kg	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1242	59.8	ug/kg	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1248	59.8	ug/kg	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1254	59.8	ug/kg	<36	<39	<40	<42	<40	<42 [<41]	<41
Aroclor-1260	59.8	ug/kg	<36	<39	<40	<42	<40	<42 [<41]	<41
Beta-BHC	5	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Delta-BHC	71,500	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Dieldrin	3.3	ug/kg	**0.77 Jp**	<3.9	<4.0	<4.2	**1.2 J**	<4.2 [<4.1]	**0.52 J**
Endosulfan I	3.26	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Endosulfan II	1.94	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Endosulfan Sulfate	3.46	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Endrin	3.3	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Endrin Aldehyde	480	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Gamma-BHC (Lindane)	3.3	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Heptachlor	0.6	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Heptachlor Epoxide	2.47	ug/kg	<1.8	<2.0	<2.1	<2.2	<2.1	<2.2 [<2.1]	<2.1
Isodrin	- -	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Kepone	- -	ug/kg	<180	<200	<210	<220	<210	<220 [<210]	<210
Methoxychlor	13.6	ug/kg	<3.6	<3.9	<4.0	<4.2	<4.0	<4.2 [<4.1]	<4.1
Technical Chlordane	3.24	ug/kg	<18	<20	<21	<22	<21	<22 [<21]	<21
Total PCBs	33,000	ug/kg	<36	<39	<40	<42	<40	<42 [<41]	<41
Toxaphene	- -	ug/kg	<180	<200	<210	<220	<210	<220 [<210]	<210
Herbicides_8151									
2,4,5-T	- -	ug/kg	<8.9	<9.8	<10	<11	<10	<11 [<10]	<10
2,4,5-TP	- -	ug/kg	<8.9	<9.8	<10	<11	<10	<11 [<10]	<10
2,4-D	1,273	ug/kg	<8.9	<9.8	<10	<11	<10	<11 [<10]	<10
Dioxathion/Dioxenethion_8310									
cis-Dioxathion	- -	ug/kg	**437**	**634**	<84.8	<83.4	**415**	<83.8 [<85]	**229 J**
Dioxenethion	- -	ug/kg	**1,080**	<16.8	**136**	<16.7	<16.8	**51.2 J [169 J]**	**17.1**
trans-Dioxathion	- -	ug/kg	<83.5	<83.8	<84.8	<83.4	**118**	<83.8 [<85]	<0.506
Dioxins and Furans_8290									
1,2,3,4,6,7,8-HpCDD	- -	pg/g	**35**	**20**	**12**	**14**	**19**	**23 [13]**	**16**
1,2,3,4,6,7,8-HpCDF	- -	pg/g	**7.4**	**3.6 J**	**2.6 J**	<6.3	**2.9 J**	**3.9 J [2.4 J]**	**3.4 J**
1,2,3,4,7,8,9-HpCDF	- -	pg/g	<5.4	<5.9	<6.2	<6.3	<4.9	**0.35 J [<4.9]**	<4.9
1,2,3,4,7,8-HxCDD	- -	pg/g	**0.96 J**	**0.30 QJ**	<6.2	<6.3	**0.52 J**	**0.58 J [<4.9]**	**0.48 J**

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1,2,3,4,7,8-HxCDF	- -	pg/g	**0.39 QJ**	**0.31 J**	<6.2	<6.3	<4.9	**0.35 J [<4.9]**	**0.34 J**
1,2,3,6,7,8-HxCDD	- -	pg/g	**1.9 J**	**0.94 J**	**0.57 QJ**	**0.63 QJ**	**1.2 J**	**1.1 J [0.6 J]**	**0.59 J**
1,2,3,6,7,8-HxCDF	- -	pg/g	**1.0 QJ**	**0.63 J**	**0.31 QJ**	<6.3	**0.25 J**	**0.48 J [<4.9]**	**0.45 J**
1,2,3,7,8,9-HxCDD	- -	pg/g	**1.6 QJ**	**0.60 QJ**	**0.43 QJ**	**1.0 J**	**0.48 J**	**0.85 J [0.5 J]**	**0.75 J**
1,2,3,7,8,9-HxCDF	- -	pg/g	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
1,2,3,7,8-PeCDD	- -	pg/g	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
1,2,3,7,8-PeCDF	- -	pg/g	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
2,3,4,6,7,8-HxCDF	- -	pg/g	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
2,3,4,7,8-PeCDF	- -	pg/g	<5.4	<5.9	<6.2	<6.3	<4.9	<4.9 [<4.9]	<4.9
2,3,7,8-TCDD	0.12	pg/g	<1.1	<1.2	<1.2	<1.3	<0.99	<0.99 [<0.98]	<0.98
2,3,7,8-TCDF	- -	pg/g	<1.1	<1.2	<1.2	<1.3	<0.99	<0.99 [<0.98]	<0.98
Octachlorodibenzofuran	- -	pg/g	**23**	**5.1 SJ**	**4.5 J**	<13	**4.9 J**	**10 [4.8 J]**	**5.0 J**
Octachlorodibenzo-p-Dioxin	- -	pg/g	**420 B**	**410 B**	**120 B**	**130 B**	**280 J**	**240 B [100 B]**	**120 B**
Total Metals_6020									
Antimony	12	mg/kg	<2.0	<2.3	<2.2	<2.5	<2.4	<2.4 [<2.5]	<2.3
Arsenic	7.24	mg/kg	**14**	**4.3**	**5.8**	**3.2**	**2.2**	**0.60 [0.32 J]**	**0.76**
Barium	- -	mg/kg	**760**	**67**	**24**	**74**	**10**	**8.0 J [4.7 J]**	**8.3 J**
Beryllium	- -	mg/kg	**1.9**	**0.42**	**0.30**	**4.2**	**0.21**	**0.12 [<0.12]**	**0.11 J**
Cadmium	0.676	mg/kg	**0.093 J**	<0.12	<0.11	**0.11 J**	<0.12	<0.12 [<0.12]	<0.12
Chromium	52.3	mg/kg	**30**	**6.0**	**4.4**	**12**	**4.1**	**1.8 [1.1 J]**	**1.9**
Cobalt	50	mg/kg	**140**	**3.2**	**1.5**	**9.4**	**1.6**	**0.67 J [0.37 J]**	**0.91 J**
Copper	18.7	mg/kg	**10**	**1.7**	**1.2**	**10**	**1.4**	**1.1 J [0.71 J]**	**1.1 J**
Lead	30.2	mg/kg	**74**	**16**	**5.3**	**8.4**	**4.4**	**3.5 [2.2]**	**3.0**
Nickel	15.9	mg/kg	**10**	**1.1 J**	**1.3**	**20**	**2.5**	**1.3 [0.72 J]**	**1.8**
Selenium	2	mg/kg	**0.79 J**	<1.2	<1.1	<1.3	<1.2	<1.2 [<1.2]	<1.2
Silver	2	mg/kg	<0.20	<0.23	<0.22	<0.25	<0.24	<0.24 [<0.25]	<0.23
Thallium	- -	mg/kg	**0.52**	<0.23	<0.22	**0.19 J**	<0.24	<0.24 [<0.25]	<0.23
Tin	- -	mg/kg	<20	<23	<22	<25	<24	<24 [<25]	<23
Vanadium	- -	mg/kg	**55**	**12**	**10**	**21**	**6.0 J**	**2.3 [1.7]**	**2.9**
Zinc	124	mg/kg	**19**	**8.6**	**8.2**	**59**	**10 J**	**6.5 J [4.9 J]**	**7.5 J**
Total Metals_7471									
Mercury	0.13	mg/kg	<0.021	<0.024	<0.022	<0.025	<0.023	<0.025 [<0.021]	<0.025
Cyanide									
Cyanide	0.0001	mg/kg	<0.54	<0.58	**0.25 J**	**0.38 J**	<0.60	<0.62 [<0.62]	<0.60
Sulfide									
Sulfide	- -	mg/kg	<57	<63	<70	<54	<73	<77 [<68]	<58
General Chemistry									
Percent Moisture	- -	%	**9.4**	**17.0**	**21.9**	**22.6**	**17.7**	**17.7 [24.2]**	**17.7**
Total Solids	- -	% passing	**93.1**	**83.3**	**83**	**77.7**	**85.3**	NA	NA
Total Solids	- -	%dw	NA	NA	NA	NA	NA	**81.8 [83.2]**	**84.8**

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

Table A-8. Summary of Sediment Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
VOCs_8260									
1,1,1,2-Tetrachloroethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1,1-Trichloroethane	213	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1,2,2-Tetrachloroethane	850	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1,2-Trichloroethane	518	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1-Dichloroethane	0.575	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,1-Dichloroethene	19.4	ug/kg	<5.4	<5.2	**3.7 J**	<13	<6.6	<4.8	<4.5
1,2,3-Trichloropropane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,2-Dibromo-3-chloropropane	- -	ug/kg	<11	<10	<12	<27	<13	<9.6	<9.0
1,2-Dibromoethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,2-Dichloroethane	260	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
1,2-Dichloropropane	333	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
2-Butanone	42.4	ug/kg	<27	<26	**14 J**	**51 J**	**8.0 J**	**5.7 J**	**4.8 J**
2-Chloro-1,3-butadiene	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
2-Hexanone	58.2	ug/kg	<27	<26	<29	<67	<33	<24	<22
3-Chloropropene	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
4-Methyl-2-pentanone	25.1	ug/kg	<27	<26	<29	<67	<33	<24	<22
Acetone	9.9	ug/kg	<54 B	<52	**96**	**360**	**100**	**66**	**34 J**
Acetonitrile	56	ug/kg	<210	<210	<230	<540	<260	<190	<180
Acrolein	0.00152	ug/kg	<110	<100	<120	<270	<130	<96	<90
Acrylonitrile	1.2	ug/kg	<110	<100	<120	<270	<130	<96	<90
Benzene	141.57	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	**150**	<4.5
Bromodichloromethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Bromoform	492	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Bromomethane	0.137	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Carbon Disulfide	23.9	ug/kg	<5.4	<5.2	**3.3 J**	**11 J**	<6.6	**12**	**3.3 J**
Carbon Tetrachloride	1,450	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	**1.6 J**	<4.5
Chlorobenzene	291	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	**36**	<4.5
Chloroethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Chloroform	121	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	**1.9 J**	<4.5
Chloromethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
cis-1,3-Dichloropropene	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Dibromochloromethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Dibromomethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Dichlorodifluoromethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Ethyl Methacrylate	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Ethylbenzene	175	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Iodomethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Isobutanol	- -	ug/kg	<210	<210	<230	<540	<260	<190	<180
Methacrylonitrile	- -	ug/kg	<110	<100	<120	<270	<130	<96	<90
Methyl Methacrylate	- -	ug/kg	<11	<10	<12	<27	<13	<9.6	<9.0
Methylene Chloride	159	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Pentachloroethane	- -	ug/kg	<27	<26	<29	<67	<33	<24	<22
Propionitrile	- -	ug/kg	<110	<100	<120	<270	<130	<96	<90
Styrene	254	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Tetrachloroethene	990	ug/kg	<5.4	<5.2	**150**	<13	<6.6	<4.8	<4.5
Toluene	1,220	ug/kg	<5.4	<5.2	**1.2 J**	**3.6 J**	**2.6 J**	**3.2 J**	**2.9 J**
trans-1,2-Dichloroethene	654	ug/kg	<5.4	<5.2	**12**	<13	<6.6	<4.8	<4.5
trans-1,3-Dichloropropene	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
trans-1,4-Dichloro-2-butene	- -	ug/kg	<11	<10	<12	<27	<13	<9.6	<9.0
Trichloroethene	112	ug/kg	<5.4	<5.2	**34**	<13	<6.6	<4.8	<4.5
Trichlorofluoromethane	- -	ug/kg	<5.4	<5.2	<5.8	<13	<6.6	<4.8	<4.5
Vinyl Acetate	13	ug/kg	<11	<10	<12	<27	<13	<9.6	<9.0
Vinyl Chloride	202	ug/kg	<5.4	<5.2	**63**	<13	<6.6	<4.8	<4.5
Xylenes (total)	433	ug/kg	<11	<10	<12	<27	<13	<9.6	<9.0

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Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
SVOCs_8270C									
1,1'-Biphenyl	1,220	ug/kg	<44	<42	<410 J	**380 J**	<54	**4,200 J**	<390 J
1,2,4,5-Tetrachlorobenzene	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,2,4-Trichlorobenzene	5,062	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,2-Dichlorobenzene	294	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,3,5-Trinitrobenzene	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
1,3-Dichlorobenzene	1,315	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,3-Dinitrobenzene	8.61	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,4-Dichlorobenzene	318	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,4-Dioxane	119	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1,4-Naphthoquinone	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
1-Naphthylamine	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
2,2'-Oxybis(1-Chloropropane)	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,3,4,6-Tetrachlorophenol	129	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4,5-Trichlorophenol	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4,6-Trichlorophenol	208	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4-Dichlorophenol	81.7	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,4-Dimethylphenol	304	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
2,4-Dinitrophenol	6.21	ug/kg	<440	<420	<4,100 J	<7,700 J	<540	<3,800 J	<3,900 J
2,4-Dinitrotoluene	14.4	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,6-Dichlorophenol	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2,6-Dinitrotoluene	39.8	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Acetylaminofluorene	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Chloronaphthalene	417	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Chlorophenol	31.9	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Methylnaphthalene	330	ug/kg	<8.9	<8.4	<84 J	<160 J	<11	<76 J	<80 J
2-Methylphenol	55.4	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Naphthylamine	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
2-Nitroaniline	- -	ug/kg	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
2-Nitrophenol	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
2-Picoline	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
3,3'-Dichlorobenzidine	127	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
3,3'-Dimethylbenzidine	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
3-Methylcholanthrene	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
3-Nitroaniline	- -	ug/kg	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4,6-Dinitro-2-methylphenol	- -	ug/kg	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4-Aminobiphenyl	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
4-Bromophenyl-phenylether	1,550	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
4-Chloro-3-Methylphenol	388	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
4-Chloroaniline	146	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
4-Chlorophenyl-phenylether	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
4-Methylphenol	20.2	ug/kg	<44	<42	<410 J	<770 J	**29 J**	<380 J	<390 J
4-Nitroaniline	- -	ug/kg	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4-Nitrophenol	13.3	ug/kg	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
4-Nitroquinoline-1-oxide	- -	ug/kg	<440	<420 J	<4,100 J	<7,700 J	<540	<3,800 J	<3,900 J
4-Phenylenediamine	- -	ug/kg	R	R	<10,000 J	<19,000 J	<1,300	<9,500 J	<9,900 J
5-Nitro-o-toluidine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
7,12-Dimethylbenz(a)anthracene	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
a,a'-Dimethylphenethylamine	- -	ug/kg	<8,900	R	<84,000 J	<160,000 J	<11,000	<76,000 J	<80,000 J
Acenaphthene	330	ug/kg	<8.9	<8.4	<84 J	<160 J	**6.3 J**	<76 J	<80 J
Acenaphthylene	330	ug/kg	<8.9	<8.4	<84 J	<160 J	<11	<76 J	<80 J
Acetophenone	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Aniline	0.31	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	**140 J**
Anthracene	330	ug/kg	<8.9	<8.4	<84 J	<160 J	**9.4 J**	<76 J	<80 J
Aramite	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J

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Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
Benzo(a)anthracene	330	ug/kg	**17**	**4.6 J**	<84 J	<160 J	**38**	<76 J	<80 J
Benzo(a)pyrene	330	ug/kg	**22**	**7.2 J**	<84 J	<160 J	**41**	<76 J	<80 J
Benzo(b)fluoranthene	10,400	ug/kg	**30**	**9.6**	<84 J	**160 J**	**56**	<76 J	<80 J
Benzo(g,h,i)perylene	170	ug/kg	**16**	**5.6 J**	<84 J	<160 J	**27**	<76 J	<80 J
Benzo(k)fluoranthene	240	ug/kg	**14**	**7.8 J**	<84 J	<160 J	**43**	<76 J	<80 J
Benzyl Alcohol	1.04	ug/kg	**9.4 J**	**15 J**	**140 J**	<770 J	**16 J**	<380 J	<390 J
bis(2-Chloroethoxy)methane	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
bis(2-Chloroethyl)ether	3,520	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
bis(2-Ethylhexyl)phthalate	182	ug/kg	<88 B	<83 B	<830 BJ	<1,500 B	<110 B	<750 J	<790 BJ
Butylbenzylphthalate	1,970	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Chrysene	330	ug/kg	**26**	**8.2 J**	<84 J	<160 J	**49**	<76 J	<80 J
Diallate	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dibenzo(a,h)anthracene	330	ug/kg	<8.9	<8.4	<84 J	<160 J	**12**	<76 J	<80 J
Dibenzofuran	449	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Diethylphthalate	295	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dimethoate	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dimethylphthalate	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Di-n-Butylphthalate	1,114	ug/kg	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
Di-n-Octylphthalate	40,600	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Dinoseb	14.5	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
Diphenyl Ether	- -	ug/kg	<44	<42	**260 J**	**5,000 J**	**36 J**	**28,000 EJ**	**250 J**
Disulfoton	324	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Ethyl Methanesulfonate	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
Ethyl Parathion	0.757	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Famphur	- -	ug/kg	<44	<42 J	<410 J	<770 J	<54	<380 J	<390 J
Fluoranthene	330	ug/kg	**41**	**14**	**54 J**	**180 J**	**70**	<76 J	<80 J
Fluorene	330	ug/kg	<8.9	<8.4	<84 J	<160 J	**6.3 J**	<76 J	<80 J
Hexachlorobenzene	20	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Hexachlorobutadiene	26.5	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Hexachlorocyclopentadiene	901	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
Hexachloroethane	584	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Hexachlorophene	- -	ug/kg	<23,000	<21,000	<210,000 J	<390,000 J	<28,000	<190,000 J	<200,000 J
Hexachloropropene	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Indeno(1,2,3-cd)pyrene	200	ug/kg	**14**	**5.4 J**	<84 J	<160 J	**30 J**	<76 J	<80 J
Isophorone	432	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Isosafrole	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Methapyrilene	- -	ug/kg	<8,900	<8,400	<84,000 J	<160,000 J	<11,000	<76,000 J	<80,000 J
Methyl Methanesulfonate	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Methyl Parathion	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Naphthalene	330	ug/kg	<8.9	<8.4	<84 J	<160 J	**7.5 J**	<76 J	<80 J
Nitrobenzene	145	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosodiethylamine	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
N-Nitrosodimethylamine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitroso-di-n-butylamine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitroso-di-n-propylamine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosodiphenylamine	2,680	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosomethylethylamine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosomorpholine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosopiperidine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
N-Nitrosopyrrolidine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
o,o,o-Triethylphosphorothioate	- -	ug/kg	<88	<83	<830 J	<1,500 J	<110	<750 J	<790 J
o-Toluidine	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
p-Dimethylaminoazobenzene	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pentachlorobenzene	24	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pentachloronitrobenzene	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J

Table A-8. Summary of Sediment Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
Pentachlorophenol	23,000	ug/kg	<230	<210	<2,100 J	<3,900 J	<280	<1,900 J	<2,000 J
Phenacetin	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Phenanthrene	330	ug/kg	**15**	**3.4 J**	<84 J	<160 J	**22**	<76 J	<80 J
Phenol	49.1	ug/kg	<44	<42	<410 J	<770 J	<54	**93 J**	<390 J
Phorate	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pronamide	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Pyrene	330	ug/kg	**34**	**13**	<84 J	**130 J**	**66**	<76 J	<80 J
Pyridine	106	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Safrole	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Sulfotep	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Thionazin	- -	ug/kg	<44	<42	<410 J	<770 J	<54	<380 J	<390 J
Organochlorine Pest_8081									
4,4'-DDD	3.3	ug/kg	<4.4	<4.1	**16**	<7.6	<5.4	<3.8	<3.9
4,4'-DDE	3.3	ug/kg	<4.4	<4.1	**7.2 J**	**5.1 J**	**0.81 J**	<3.8	<3.9
4,4'-DDT	3.3	ug/kg	<4.4	**0.74 J**	**4.8 J**	**13 JN**	<5.4	<3.8	<3.9
4-Chlorobenzilate	- -	ug/kg	<23	<21	<21	<39	<28	<19	<20
Aldrin	2	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Alpha-BHC	6	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Aroclor-1016	59.8	ug/kg	<44	<41	<41	<76	<54	<38	<39
Aroclor-1221	67,000	ug/kg	<89	<84	<84	<150	<110	<77	<80
Aroclor-1232	59.8	ug/kg	<44	<41	<41	<76	<54	<38	<39
Aroclor-1242	59.8	ug/kg	<44	<41	<41	<76	<54	<38	<39
Aroclor-1248	59.8	ug/kg	<44	<41	<41	<76	<54	<38	<39
Aroclor-1254	59.8	ug/kg	<44	<41	<41	<76	<54	<38	<39
Aroclor-1260	59.8	ug/kg	<44	<41	<41	<76	<54	**66 J**	<39
Beta-BHC	5	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Delta-BHC	71,500	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Dieldrin	3.3	ug/kg	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	**2.0 J**
Endosulfan I	3.26	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Endosulfan II	1.94	ug/kg	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Endosulfan Sulfate	3.46	ug/kg	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Endrin	3.3	ug/kg	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Endrin Aldehyde	480	ug/kg	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Gamma-BHC (Lindane)	3.3	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Heptachlor	0.6	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Heptachlor Epoxide	2.47	ug/kg	<2.3	<2.1	<2.1	<3.9	<2.8	<1.9	<2.0
Isodrin	- -	ug/kg	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Kepone	- -	ug/kg	<230	<210	<210	<390	<280	<190	<200
Methoxychlor	13.6	ug/kg	<4.4	<4.1	<4.1	<7.6	<5.4	<3.8	<3.9
Technical Chlordane	3.24	ug/kg	<23	<21	<21	<39	<28	<19	<20
Total PCBs	33,000	ug/kg	<44	<41	<41	<76	<54	**66 J**	<39
Toxaphene	- -	ug/kg	<230	<210	<210	<390	<280	<190	<200
Herbicides_8151									
2,4,5-T	- -	ug/kg	<11	<10	R	<19	<13	<9.6	<9.8
2,4,5-TP	- -	ug/kg	<11	<10	R	<19 J	<13 J	<9.6 J	<9.8 J
2,4-D	1,273	ug/kg	<11	<10	R	<19	<13	<9.6	<9.8
Dioxathion/Dioxenethion_8310									
cis-Dioxathion	- -	ug/kg	**1,260 J**	<82.6	**453 J**	**1,470 J**	**1,270 J**	**328 J**	**1,530 J**
Dioxenethion	- -	ug/kg	<0.503	**34.4**	**589**	<0.507	<0.51	**204**	<0.502
trans-Dioxathion	- -	ug/kg	**74.7**	<82.6	**190**	<0.507	<0.51	**264**	**93.3**
Dioxins and Furans_8290									
1,2,3,4,6,7,8-HpCDD	- -	pg/g	**200**	**13**	**230 J**	**1,400**	**130 J**	**28 J**	**200 J**
1,2,3,4,6,7,8-HpCDF	- -	pg/g	**18 Q**	**2.2 J**	**36 J**	**170**	**16 J**	**5.2 J**	**60 J**
1,2,3,4,7,8,9-HpCDF	- -	pg/g	**1.3 J**	<4.9	**2.8 J**	**16**	**1.1 J**	<4.8 J	**8.4 J**
1,2,3,4,7,8-HxCDD	- -	pg/g	**0.83 J**	<4.9	**3.7 J**	**17**	**1.3 J**	**0.61 J**	**1.4 J**

Table A-8. Summary of Sediment Analytical Results, Ecological Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	HERC_HATTIE_ECO_SE	Units	SD-AO-SD-09 03/14/12 AO-SD-09	SD-AO-SD-10 03/14/12 AO-SD-10	SD-AO-SD-12 (03-13-2012) 03/13/12 AO-SD-12	SD-AO-SD-13 (03-13-2012) 03/13/12 AO-SD-13	SD-AO-SD-14 (03-13-2012) 03/13/12 AO-SD-14	SD-AO-SD-15 (03-13-2012) 03/13/12 AO-SD-15	SD-AO-SD-16 (03-12-2012) 03/12/12 AO-SD-16
1,2,3,4,7,8-HxCDF	- -	pg/g	**0.71 J**	<4.9	**3.4 J**	**9.8**	**1.3 J**	**0.80 J**	**2.4 J**
1,2,3,6,7,8-HxCDD	- -	pg/g	**2.7 J**	**0.67 J**	**9.1 J**	**49**	**3.9 J**	**2.0 J**	**7.6 J**
1,2,3,6,7,8-HxCDF	- -	pg/g	**0.73 J**	**0.13 J**	**6.2 J**	**23 Q**	**1.7 J**	**0.89 J**	**3.9 J**
1,2,3,7,8,9-HxCDD	- -	pg/g	**1.9 J**	**0.46 J**	**9.0 J**	**40 J**	**12 J**	**1.5 J**	**3.6 J**
1,2,3,7,8,9-HxCDF	- -	pg/g	<4.9	<4.9	<4.9 J	**0.43 J**	<4.8 J	<4.8 J	<4.8 J
1,2,3,7,8-PeCDD	- -	pg/g	**0.40 J**	<4.9	**2.0 J**	**7.7 Q**	**0.52 J**	**0.41 J**	<4.8 J
1,2,3,7,8-PeCDF	- -	pg/g	<4.9	<4.9	<4.9 J	**1.7 J**	<4.8 J	<4.8 J	<4.8 J
2,3,4,6,7,8-HxCDF	- -	pg/g	**0.40 J**	<4.9	**1.5 J**	**5.5 J**	**0.42 J**	<4.8 J	**0.67 J**
2,3,4,7,8-PeCDF	- -	pg/g	<4.9	<4.9	**0.79 J**	**2.9 J**	<4.8 J	**0.31 J**	<4.8 J
2,3,7,8-TCDD	0.12	pg/g	<0.99	<0.97	<0.98 J	**0.27 J**	<0.97 J	<0.96 J	<0.97 J
2,3,7,8-TCDF	- -	pg/g	<0.99	<0.97	**0.46 J**	**2.7 Q**	<0.97 J	**0.46 J**	**0.26 J**
Octachlorodibenzofuran	- -	pg/g	**100**	**3.7 J**	**77 J**	**450 S**	**38 J**	**10 J**	**460 J**
Octachlorodibenzo-p-Dioxin	- -	pg/g	**3,500 B**	**120 B**	**2,400 J**	**12,000 EJ**	**1,700 J**	**410 J**	**1,800 J**
Total Metals_6020									
Antimony	12	mg/kg	<2.6	<2.3	<2.5	<4.5	<3.1	<2.0	<2.2
Arsenic	7.24	mg/kg	**1.6**	**0.46 J**	**2.0**	**7.4**	**3.9**	**1.9**	**1.9**
Barium	- -	mg/kg	**18 J**	**6.5 J**	**18**	**99**	**65**	**15**	**30**
Beryllium	- -	mg/kg	**0.17**	<0.11	**0.089 J**	**0.47**	**0.30**	**0.17**	**0.081 J**
Cadmium	0.676	mg/kg	**0.057 J**	**0.035 J**	**0.19**	**0.73**	**0.10 J**	**0.079 J**	**0.12**
Chromium	52.3	mg/kg	**2.4**	**1.2**	**3.3 J**	**18 J**	**9.7 J**	**8.8 J**	**3.4 J**
Cobalt	50	mg/kg	**1.2**	**0.47**	**1.2 J**	**8.3 J**	**4.2 J**	**180 J**	**1.3 J**
Copper	18.7	mg/kg	**2.9 J**	**0.78 J**	**12**	**55**	**5.6**	**10**	**11**
Lead	30.2	mg/kg	**87**	**1.6**	**30 J**	**86 J**	**30 J**	**8.9 J**	**6.5 J**
Nickel	15.9	mg/kg	**1.8**	<1.1	**3.2**	**23**	**8.4**	**530**	**4.2**
Selenium	2	mg/kg	<1.3	<1.1	<1.2	<2.3	<1.5	<1.0	<1.1
Silver	2	mg/kg	<0.26	<0.23	**0.32**	**1.7**	<0.31	<0.20	<0.22
Thallium	- -	mg/kg	<0.26	<0.23	<0.25	**0.21 J**	**0.24 J**	<0.20	<0.22
Tin	- -	mg/kg	<26	<23	<25	<45	<31	<20	<22
Vanadium	- -	mg/kg	**3.5**	**1.5**	**4.0 J**	**23 J**	**14 J**	**6.8 J**	**4.8 J**
Zinc	124	mg/kg	**14 J**	**4.9 J**	**180**	**670**	**42**	**51**	**44**
Total Metals_7471									
Mercury	0.13	mg/kg	<0.026	<0.024	**0.028**	**0.18**	**0.030**	**0.063**	<0.022
Cyanide									
Cyanide	0.0001	mg/kg	**0.46 J**	<0.60	<0.60	**0.63 J**	<0.78	**0.63**	<0.57
Sulfide									
Sulfide	- -	mg/kg	<69	<68	<66	<130	<88	<61	<58
General Chemistry									
Percent Moisture	- -	%	**23.9**	**17.6**	**20.0**	**62.6**	**31.6**	**18.2**	**18.1**
Total Solids	- -	% passing	NA	NA	NA	NA	NA	NA	NA
Total Solids	- -	%dw	**77.9**	**82.7**	**82.2**	**42.7**	**80.9**	**83.2**	**82.5**

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

ARCADIS

Appendix A-9

Summary of Industrial Well Analytical Results, Human Health Comparison Criteria

Table A-9. Summary of Industrial Well Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	PW-HI-01 (031312) 03/13/12 HI-01	PW-HI-03 (031512) 03/15/12 HI-03	PW-RTT-01 (040312) 04/03/12 PW-RTT-01	PW-ZC-01 (022812) 02/28/12 PW-ZC-01	PW-ZC-02 (022812) 02/28/12 PW-ZC-02
VOCs_8260								
1,1,1,2-Tetrachloroethane	0.405735883	0.5	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	7,500	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	0.052745665	0.066	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	0.24	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	798.4375	2.4	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	260	ug/L	<1.0	<1.0	**0.56 J**	<1.0	<1.0
1,2,3-Trichloropropane	0.006233456	0.00065	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	0.99	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	0.05	0.0065	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	280	ug/L	NA	NA	<1.0	NA	NA
1,2-Dichloroethane	5	0.15	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	0.38	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	5.475	- -	ug/L	NA	NA	<1.0	NA	NA
1,4-Dichlorobenzene	75	0.42	ug/L	NA	NA	<1.0	NA	NA
1,4-Dioxane	6.088407006	0.67	ug/L	<50	<50	<50	<50	<50
2-Butanone	1,906.086427	4,900	ug/L	<10	<10	<10	<10	<10
2-Chloro-1,3-butadiene	14.31372549	0.016	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	1,460	34	ug/L	<10	<10	<10	<10	<10
3-Chloropropene	- -	0.63	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	139.047619	1,000	ug/L	<10	<10	<10	<10	<10
Acetone	608.3333333	12,000	ug/L	<25	<25	<25	<25	<25
Acetonitrile	125.1428571	130	ug/L	<40	<40	<40	<40	<40
Acrolein	0.041607628	0.041	ug/L	<20	<20	<20	<20	<20
Acrylonitrile	0.036724017	0.045	ug/L	<20	<20	<20	<20	<20
Benzene	5	0.39	ug/L	<1.0	<1.0	**0.76 J**	<1.0	<1.0
Bromodichloromethane	0.167866259	0.12	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	8.477528742	7.9	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	8.516666667	7	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	1,042.857143	720	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	5	0.39	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	72	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	3.637632051	21,000	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	0.154585689	0.19	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	1.434212853	190	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	0.125584916	0.15	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	60.83333333	7.9	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	347.6190476	190	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl Methacrylate	547.5	420	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	700	1.3	ug/L	<1.0	**0.43 J**	<1.0	<1.0	<1.0
Hexachlorobutadiene	0.858621501	0.26	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Iodomethane	- -	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutanol	1,825	4,600	ug/L	<40	<40	<40	<40	<40
Methacrylonitrile	1.042857143	0.75	ug/L	<20	<20	<20	<20	<20
Methyl Methacrylate	1,419.444444	1,400	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	5	9.9	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	6.203966006	0.14	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachloroethane	- -	0.56	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Propionitrile	- -	- -	ug/L	<20	<20	<20	<20	<20
Styrene	100	1,100	ug/L	<1.0 *	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	9.7	ug/L	<1.0	<1.0	**12**	<1.0	<1.0
Toluene	1,000	860	ug/L	<1.0	**1.2**	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	86	ug/L	<1.0	<1.0	**0.51 J**	<1.0	<1.0

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Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	PW-HI-01 (031312) 03/13/12 HI-01	PW-HI-03 (031512) 03/15/12 HI-03	PW-RTT-01 (040312) 04/03/12 PW-RTT-01	PW-ZC-01 (022812) 02/28/12 PW-ZC-01	PW-ZC-02 (022812) 02/28/12 PW-ZC-02
trans-1,3-Dichloropropene	- -	- -	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	- -	0.0012	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	5	0.44	ug/L	<1.0	<1.0	**77**	<1.0	<1.0
Trichlorofluoromethane	1,288.235294	1,100	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	412.1235491	410	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	2	0.015	ug/L	<1.0	<1.0	**1.9**	<1.0	<1.0
Xylenes (total)	10,000	190	ug/L	<2.0 *	**2.5**	<2.0	<2.0	**0.62 J**
VOCs_8011								
1,2-Dibromo-3-chloropropane	0.2	0.00032	ug/L	<0.021	<0.021	<0.021	<0.020	<0.020
1,2-Dibromoethane	0.05	0.0065	ug/L	<0.021	<0.021	<0.021	<0.020	<0.020
SVOCs_8270C								
1,1'-Biphenyl	304.1666667	0.83	ug/L	<0.94	<0.95	<0.96	**0.099 J**	<1.0 J
1,2,4,5-Tetrachlorobenzene	10.95	1.2	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1,2,4-Trichlorobenzene	70	0.99	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1,2-Dichlorobenzene	600	280	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1,3,5-Trinitrobenzene	1,095	460	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1,3-Dichlorobenzene	5.475	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1,3-Dinitrobenzene	3.65	1.5	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1,4-Dichlorobenzene	75	0.42	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1,4-Dioxane	6.088407006	0.67	ug/L	<1.9	<1.9	**2.5**	<1.9 J	<2.0 J
1,4-Naphthoquinone	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
1-Naphthylamine	- -	- -	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
2,2'-Oxybis(1-Chloropropane)	0.2603888	0.31	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2,3,4,6-Tetrachlorophenol	1,095	170	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2,4,5-Trichlorophenol	3,650	890	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2,4,6-Trichlorophenol	6.088407006	3.5	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2,4-Dichlorophenol	109.5	35	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2,4-Dimethylphenol	730	270	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
2,4-Dinitrophenol	73	30	ug/L	<9.4	<9.5	<9.6	<9.6 J	<10 J
2,4-Dinitrotoluene	73	0.2	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2,6-Dichlorophenol	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2,6-Dinitrotoluene	36.5	15	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2-Acetylaminofluorene	- -	0.014	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2-Chloronaphthalene	486.6666667	550	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2-Chlorophenol	30.41666667	71	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2-Methylnaphthalene	121.6666667	27	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
2-Methylphenol	1,825	720	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
2-Naphthylamine	- -	0.033	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
2-Nitroaniline	0.417142857	150	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2-Nitrophenol	0.4161	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
2-Picoline	- -	- -	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
3,3'-Dichlorobenzidine	0.148827727	0.11	ug/L	<19	<19	<19	<19 J	R
3,3'-Dimethylbenzidine	0.007279617	0.0056	ug/L	<19	<19	<19	<19 J	<20 J
3-Methylcholanthrene	- -	0.00098	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
3-Nitroaniline	- -	- -	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
4,6-Dinitro-2-methylphenol	3.65	1.2	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
4-Aminobiphenyl	- -	0.0026	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
4-Bromophenyl-phenylether	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
4-Chloro-3-Methylphenol	73,000	1,100	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
4-Chloroaniline	146	0.32	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
4-Chlorophenyl-phenylether	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
4-Methylphenol	182.5	1,400	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
4-Nitroaniline	- -	3.3	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
4-Nitrophenol	292	- -	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
4-Nitroquinoline-1-oxide	- -	- -	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J

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Sample Name: Date Collected: Location ID:	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	PW-HI-01 (031312) 03/13/12 HI-01	PW-HI-03 (031512) 03/15/12 HI-03	PW-RTT-01 (040312) 04/03/12 PW-RTT-01	PW-ZC-01 (022812) 02/28/12 PW-ZC-01	PW-ZC-02 (022812) 02/28/12 PW-ZC-02
4-Phenylenediamine	6,935	3,000	ug/L	<190	<190	<190	<190 J	<200 J
5-Nitro-o-toluidine	2.029469002	7	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
7,12-Dimethylbenz(a)anthracene	- -	0.000086	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
a,a'-Dimethylphenethylamine	- -	- -	ug/L	<9.4	<9.5	<9.6	<9.6 J	<10 J
Acenaphthene	365	400	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Acenaphthylene	2,190	- -	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Acetophenone	0.041609526	1,500	ug/L	<0.94	<0.95	<0.96	<0.96 J	**0.15 J**
Aniline	11.74955738	12	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
Anthracene	43.4	1,300	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Aramite	- -	2.7	ug/L	<1.4	<1.4	<1.4	<1.4 J	<1.5 J
Benzo(a)anthracene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Benzo(a)pyrene	0.2	0.0029	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Benzo(b)fluoranthene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Benzo(g,h,i)perylene	1,095	- -	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Benzo(k)fluoranthene	0.917431193	0.29	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Benzyl Alcohol	10,950	1,500	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
bis(2-Chloroethoxy)methane	- -	47	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
bis(2-Chloroethyl)ether	0.009202473	0.012	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
bis(2-Ethylhexyl)phthalate	6	0.071	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
Butylbenzylphthalate	2,690	14	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Chrysene	9.174311927	2.9	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Diallate	- -	0.46	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Dibenzo(a,h)anthracene	0.009174312	0.0029	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Dibenzofuran	24.33333333	5.8	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Diethylphthalate	29,200	11,000	ug/L	<0.94	<0.95	**0.11 J**	<0.96 J	<1.0 J
Dimethoate	- -	3.1	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
Dimethylphthalate	365,000	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Di-n-Butylphthalate	3,650	670	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Di-n-Octylphthalate	20	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Diphenyl Ether	- -	- -	ug/L	<0.94	<0.95	**25**	<0.96 J	<1.0 J
Disulfoton	1.46	0.38	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Ethyl Methanesulfonate	- -	- -	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
Ethyl Parathion	219	65	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
Famphur	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Fluoranthene	1,460	630	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Fluorene	243.3333333	220	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Hexachlorobenzene	1	0.042	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Hexachlorobutadiene	0.858621501	0.26	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Hexachlorocyclopentadiene	50	22	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
Hexachloroethane	4.783748362	0.79	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Hexachlorophene	10.95	4.7	ug/L	<470	<470	R	<480 J	<500 J
Hexachloropropene	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Indeno(1,2,3-cd)pyrene	0.091743119	0.029	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Isophorone	70.49734428	67	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Isosafrole	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Methapyrilene	- -	- -	ug/L	<190	<190	<190	<190 J	<200 J
Methyl Methanesulfonate	- -	0.68	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
Methyl Parathion	9.125	3.4	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Naphthalene	6.203966006	0.14	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Nitrobenzene	3.532258065	0.12	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
N-Nitrosodiethylamine	0.000446483	0.00014	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
N-Nitrosodimethylamine	0.001313186	0.00042	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
N-Nitroso-di-n-butylamine	0.001894431	0.0024	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
N-Nitroso-di-n-propylamine	0.009567497	0.0093	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
N-Nitrosodiphenylamine	13.66785246	10	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J

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N-Nitrosomethylethylamine	0.003044204	0.003	ug/L	<1.9	<1.9	<1.9	<1.9 J	<2.0 J
N-Nitrosomorpholine	- -	0.01	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
N-Nitrosopiperidine	- -	0.0071	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
N-Nitrosopyrrolidine	0.031891656	0.032	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
o,o,o-Triethylphosphorothioate	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
o-Toluidine	0.279051988	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
p-Dimethylaminoazobenzene	- -	0.0043	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
Pentachlorobenzene	29.2	2.3	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Pentachloronitrobenzene	0.25758645	0.1	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Phenacetin	- -	30	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Phenanthrene	1,095	- -	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Phenol	21,900	4,500	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Phorate	- -	2.3	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Pronamide	- -	900	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Pyrene	182.5	87	ug/L	<0.19	<0.19	<0.19	<0.19 J	<0.20 J
Pyridine	36.5	15	ug/L	<4.7	<4.7	<4.8	<4.8 J	<5.0 J
Safrole	- -	0.062	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Sulfotep	- -	5.3	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Thionazin	- -	- -	ug/L	<0.94	<0.95	<0.96	<0.96 J	<1.0 J
Organochlorine Pest_8081								
4,4'-DDD	0.279051988	0.28	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
4,4'-DDE	0.196977874	0.2	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
4,4'-DDT	0.196977874	0.2	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
4-Chlorobenzilate	0.248046211	0.27	ug/L	<0.47	<0.49	<0.49	<0.48	<0.48
Aldrin	0.003939557	0.00021	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Alpha-BHC	0.010630552	0.0062	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Beta-BHC	0.037206932	0.022	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Delta-BHC	- -	- -	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Dieldrin	0.00418578	0.0015	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
Endosulfan I	219	- -	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Endosulfan II	219	- -	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
Endosulfan Sulfate	- -	- -	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
Endrin	2	1.7	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
Endrin Aldehyde	- -	- -	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
Gamma-BHC (Lindane)	0.2	0.036	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Heptachlor	0.4	0.0018	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Heptachlor Epoxide	0.2	0.0033	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Isodrin	- -	- -	ug/L	<0.047	<0.049	<0.049	<0.048	<0.048
Kepone	- -	0.003	ug/L	<0.95	<0.97	<0.98	<0.96	<0.96
Methoxychlor	40	27	ug/L	<0.095	<0.097	<0.098	<0.096	<0.096
Technical Chlordane	2	- -	ug/L	<0.47	<0.49	<0.49	<0.48	<0.48
Toxaphene	3	0.013	ug/L	<4.7	<4.9	<4.9	<4.8	<4.8
PCBs_8082								
Aroclor-1016	0.956749672	0.96	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38
Aroclor-1221	0.033486239	0.0043	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38
Aroclor-1232	0.033486239	0.0043	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38
Aroclor-1242	0.033486239	0.034	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38
Aroclor-1248	0.033486239	0.034	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38
Aroclor-1254	0.033486239	0.034	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38
Aroclor-1260	0.033486239	0.034	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38
Herbicides_8151								
2,4,5-T	365	120	ug/L	<0.48	<0.49	<0.49	<0.48	<0.48
2,4,5-TP	50	84	ug/L	<0.48	<0.49	<0.49	<0.48	<0.48
2,4-D	70	130	ug/L	<0.48	<0.49	<0.49	<0.48	<0.48

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Dinoseb	7	11	ug/L	<5.7	<5.8	<5.9	<5.8	<5.8
Pentachlorophenol	1	0.17	ug/L	<0.24 *	<0.24 *	<0.25	<0.24	<0.24
Dioxathion/Dioxenethion_8310								
cis-Dioxathion	54.75	- -	ug/L	<2.5	<2.63	<2.5	<2.84	<2.87
Dioxenethion	- -	- -	ug/L	<0.5	<0.526	**5.51**	<0.568	<0.575
trans-Dioxathion	54.75	- -	ug/L	<2.5	<2.63	<2.5	<2.84	<2.87
Dioxins and Furans_8290								
1,2,3,4,6,7,8-HpCDD	44.6483	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,4,6,7,8-HpCDF	44.6483	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,4,7,8,9-HpCDF	44.6483	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,4,7,8-HxCDD	4.46483	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,4,7,8-HxCDF	4.46483	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,6,7,8-HxCDD	10.802	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,6,7,8-HxCDF	4.46483	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,7,8,9-HxCDD	10.802	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,7,8,9-HxCDF	4.46483	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,7,8-PeCDD	0.892966	- -	pg/L	<48	<48	<48	<47.6	<47.6
1,2,3,7,8-PeCDF	8.92966	- -	pg/L	<48	<48	<48	<47.6	<47.6
2,3,4,6,7,8-HxCDF	4.46483	- -	pg/L	<48	<48	<48	<47.6	<47.6
2,3,4,7,8-PeCDF	0.892966	- -	pg/L	<48	<48	<48	<47.6	<47.6
2,3,7,8-TCDD	30	0.52	pg/L	<9.5	<9.5	<9.5	<9.52	<9.52
2,3,7,8-TCDF	4.46483	- -	pg/L	<9.5	<9.5	<9.5	<9.52	<9.52
Octachlorodibenzofuran	446.483	- -	pg/L	<95	<95	<95	<95.2	<95.2
Octachlorodibenzo-p-Dioxin	446.483	- -	pg/L	**4.9 BJ**	<95	<95	<95.2	<95.2 B
Total Metals_6020								
Antimony	6	6	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	50	0.045	ug/L	**2.4 J**	<2.5	**5.0**	<2.5	<2.5
Barium	2,000	2,900	ug/L	**87**	**49**	**140**	**56**	**53**
Beryllium	4	16	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50
Cadmium	5	6.9	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	- -	- -	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	2,190	4.7	ug/L	<0.50	<0.50	**1.0**	<0.50	<0.50
Copper	1,300	620	ug/L	**3.1 J**	<5.0	<5.0	<5.0	<5.0
Lead	15	- -	ug/L	**0.89 J**	<1.5	<1.5 B	<1.5	<1.5
Nickel	730	300	ug/L	<5.0	<5.0	**3.4 J**	<5.0	<5.0
Selenium	50	78	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5
Silver	182.5	71	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium	2	0.16	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Tin	21,900	9,300	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0
Vanadium	255.5	78	ug/L	<10	<10	<10	<10	<10
Zinc	10,950	4,700	ug/L	<20	<20	<20	<20	<20
Total Metals_7470								
Mercury	2	0.63	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20
Cyanide								
Cyanide	0.2	0.0093	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Sulfide								
Sulfide	- -	- -	mg/L	<1.0	<1.0	**1.5**	**1.6**	**1.1**

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

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Appendix A-10

Summary of Residential Well Analytical Results, Human Health Comparison Criteria

Table A-10. Summary of Residential Well Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	MCLs	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	PW-CMS-01 (022712) 02/27/12 PW-CMS-01	PW-CMS-01 (022812) 02/28/12 PW-CMS-01
VOCs_8260						
2-Butanone	- -	1,906.086427	4,900	ug/L	<10	NA
2-Chloro-1,3-butadiene	- -	14.31372549	0.016	ug/L	<1.0	NA
2-Hexanone	- -	1,460	34	ug/L	<10	NA
3-Chloropropene	- -	- -	0.63	ug/L	<1.0	NA
4-Methyl-2-pentanone	- -	139.047619	1,000	ug/L	<10	NA
Acetone	- -	608.3333333	12,000	ug/L	<25	NA
Acetonitrile	- -	125.1428571	130	ug/L	<40	NA
Acrolein	- -	0.041607628	0.041	ug/L	<20	NA
Acrylonitrile	- -	0.036724017	0.045	ug/L	<20	NA
Carbon Disulfide	- -	1,042.857143	720	ug/L	<2.0	NA
Dichlorodifluoromethane	- -	347.6190476	190	ug/L	<1.0	NA
Ethyl Methacrylate	- -	547.5	420	ug/L	<1.0	NA
Iodomethane	- -	- -	- -	ug/L	<5.0	NA
Isobutanol	- -	1,825	4,600	ug/L	<40	NA
Methacrylonitrile	- -	1.042857143	0.75	ug/L	<20	NA
Methyl Methacrylate	- -	1,419.444444	1,400	ug/L	<1.0	NA
Pentachloroethane	- -	- -	0.56	ug/L	<5.0	NA
Propionitrile	- -	- -	- -	ug/L	<20	NA
trans-1,4-Dichloro-2-butene	- -	- -	0.0012	ug/L	<2.0	NA
Trichlorofluoromethane	- -	1,288.235294	1,100	ug/L	<1.0	NA
Vinyl Acetate	- -	412.1235491	410	ug/L	<2.0	NA
VOCs_E524.2						
1,1,1,2-Tetrachloroethane	- -	0.405735883	0.5	ug/L	<0.50	NA
1,1,1-Trichloroethane	200	200	7,500	ug/L	<0.50	NA
1,1,2,2-Tetrachloroethane	- -	0.052745665	0.066	ug/L	<0.50	NA
1,1,2-Trichloroethane	5	5	0.24	ug/L	<0.50	NA
1,1-Dichloroethane	- -	798.4375	2.4	ug/L	<0.50 J	NA
1,1-Dichloroethene	7	7	260	ug/L	<0.50	NA
1,1-Dichloropropene	- -	- -	- -	ug/L	<0.50	NA
1,2,3-Trichloropropane	- -	0.006233456	0.00065	ug/L	<0.50	NA
1,2,4-Trichlorobenzene	70	70	0.99	ug/L	<0.50	NA
1,2-Dichlorobenzene	600	600	280	ug/L	<0.50	NA
1,2-Dichloroethane	5	5	0.15	ug/L	<0.50	NA
1,2-Dichloropropane	5	5	0.38	ug/L	<0.50	NA
1,3-Dichlorobenzene	- -	5.475	- -	ug/L	<0.50	NA
1,3-Dichloropropane	- -	- -	290	ug/L	<0.50	NA
1,4-Dichlorobenzene	75	75	0.42	ug/L	<0.50	NA
2,2-Dichloropropane	- -	- -	- -	ug/L	<0.50	NA
2-Chlorotoluene	- -	121.6666667	180	ug/L	<0.50	NA
4-Chlorotoluene	- -	- -	190	ug/L	<0.50	NA
Benzene	5	5	0.39	ug/L	<0.50	NA
Bromobenzene	- -	- -	54	ug/L	<0.50	NA
Bromodichloromethane	80	0.167866259	0.12	ug/L	<1.0	NA
Bromoform	80	8.477528742	7.9	ug/L	<0.50	NA
Bromomethane	- -	8.516666667	7	ug/L	<1.0 J	NA
Carbon Tetrachloride	5	5	0.39	ug/L	<0.50	NA
Chlorobenzene	100	100	72	ug/L	<0.50	NA
Chloroethane	- -	3.637632051	21,000	ug/L	<1.0	NA
Chloroform	80	0.154585689	0.19	ug/L	<0.50	NA
Chloromethane	- -	1.434212853	190	ug/L	<0.50 J	NA
cis-1,2-Dichloroethene	70	70	28	ug/L	<0.50	NA
cis-1,3-Dichloropropene	- -	- -	- -	ug/L	<0.50	NA
Dibromochloromethane	80	0.125584916	0.15	ug/L	<0.50	NA
Dibromomethane	- -	60.83333333	7.9	ug/L	<0.50	NA

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Sample Name: Date Collected: Location ID:	MCLs	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	PW-CMS-01 (022712) 02/27/12 PW-CMS-01	PW-CMS-01 (022812) 02/28/12 PW-CMS-01
Ethylbenzene	700	700	1.3	ug/L	<0.50	NA
Methyl tert-butyl ether	- -	40	12	ug/L	<0.50 J	NA
Methylene Chloride	5	5	9.9	ug/L	<0.50 J	NA
o,p-Xylene	- -	- -	- -	ug/L	<0.50	NA
o-Xylene	- -	12,166.66667	190	ug/L	<0.50	NA
Styrene	100	100	1,100	ug/L	<0.50	NA
Tetrachloroethene	5	5	9.7	ug/L	<0.50	NA
Toluene	1,000	1,000	860	ug/L	<0.50	NA
trans-1,2-Dichloroethene	100	100	86	ug/L	<0.50	NA
trans-1,3-Dichloropropene	- -	- -	- -	ug/L	<0.50	NA
Trichloroethene	5	5	0.44	ug/L	<0.50	NA
Vinyl Chloride	2	2	0.015	ug/L	<0.50	NA
Xylenes (total)	10,000	10,000	190	ug/L	<0.50	NA
VOCs_E504.1						
1,2-Dibromo-3-chloropropane	0.2	0.2	0.00032	ug/L	<0.021	NA
1,2-Dibromoethane	0.05	0.05	0.0065	ug/L	<0.021	NA
SVOCs_8270C						
1,1'-Biphenyl	- -	304.1666667	0.83	ug/L	<0.98 J	NA
1,2,4,5-Tetrachlorobenzene	- -	10.95	1.2	ug/L	<0.98 J	NA
1,2,4-Trichlorobenzene	70	70	0.99	ug/L	<0.98 J	NA
1,3,5-Trinitrobenzene	- -	1,095	460	ug/L	<0.98 J	NA
1,3-Dinitrobenzene	- -	3.65	1.5	ug/L	<0.98 J	NA
1,4-Dioxane	- -	6.088407006	0.67	ug/L	**0.47 J**	NA
1,4-Naphthoquinone	- -	- -	- -	ug/L	<0.98 J	NA
1-Naphthylamine	- -	- -	- -	ug/L	<4.9 J	NA
2,2'-Oxybis(1-Chloropropane)	- -	0.2603888	0.31	ug/L	<0.98 J	NA
2,3,4,6-Tetrachlorophenol	- -	1,095	170	ug/L	<0.98 J	NA
2,4,5-Trichlorophenol	- -	3,650	890	ug/L	<0.98 J	NA
2,4,6-Trichlorophenol	- -	6.088407006	3.5	ug/L	<0.98 J	NA
2,4-Dichlorophenol	- -	109.5	35	ug/L	<0.98 J	NA
2,4-Dimethylphenol	- -	730	270	ug/L	<2.0 J	NA
2,4-Dinitrophenol	- -	73	30	ug/L	<9.8 J	NA
2,4-Dinitrotoluene	- -	73	0.2	ug/L	<0.98 J	NA
2,6-Dichlorophenol	- -	- -	- -	ug/L	<0.98 J	NA
2,6-Dinitrotoluene	- -	36.5	15	ug/L	<0.98 J	NA
2-Acetylaminofluorene	- -	- -	0.014	ug/L	<0.98 J	NA
2-Chloronaphthalene	- -	486.6666667	550	ug/L	<0.98 J	NA
2-Chlorophenol	- -	30.41666667	71	ug/L	<0.98 J	NA
2-Methylnaphthalene	- -	121.6666667	27	ug/L	<0.20 J	NA
2-Methylphenol	- -	1,825	720	ug/L	<2.0 J	NA
2-Naphthylamine	- -	- -	0.033	ug/L	R	NA
2-Nitroaniline	- -	0.417142857	150	ug/L	<0.98 J	NA
2-Nitrophenol	- -	0.4161	- -	ug/L	<0.98 J	NA
2-Picoline	- -	- -	- -	ug/L	<2.0 J	NA
3,3'-Dichlorobenzidine	- -	0.148827727	0.11	ug/L	<20 J	NA
3,3'-Dimethylbenzidine	- -	0.007279617	0.0056	ug/L	R	NA
3-Methylcholanthrene	- -	- -	0.00098	ug/L	<0.98 J	NA
3-Nitroaniline	- -	- -	- -	ug/L	<4.9 J	NA
4,6-Dinitro-2-methylphenol	- -	3.65	1.2	ug/L	<4.9 J	NA
4-Aminobiphenyl	- -	- -	0.0026	ug/L	R	NA
4-Bromophenyl-phenylether	- -	- -	- -	ug/L	<0.98 J	NA
4-Chloro-3-Methylphenol	- -	73,000	1,100	ug/L	<0.98 J	NA
4-Chloroaniline	- -	146	0.32	ug/L	<2.0 J	NA
4-Chlorophenyl-phenylether	- -	- -	- -	ug/L	<0.98 J	NA
4-Methylphenol	- -	182.5	1,400	ug/L	<2.0 J	NA

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4-Nitroaniline	- -	- -	3.3	ug/L	<4.9 J	NA
4-Nitrophenol	- -	292	- -	ug/L	<4.9 J	NA
4-Nitroquinoline-1-oxide	- -	- -	- -	ug/L	<2.0 J	NA
4-Phenylenediamine	- -	6,935	3,000	ug/L	R	NA
5-Nitro-o-toluidine	- -	2.029469002	7	ug/L	R	NA
7,12-Dimethylbenz(a)anthracene	- -	- -	0.000086	ug/L	<0.98 J	NA
a,a'-Dimethylphenethylamine	- -	- -	- -	ug/L	R	NA
Acenaphthene	- -	365	400	ug/L	<0.20 J	NA
Acenaphthylene	- -	2,190	- -	ug/L	<0.20 J	NA
Acetophenone	- -	0.041609526	1,500	ug/L	**0.16 J**	NA
Aniline	- -	11.74955738	12	ug/L	<2.0 J	NA
Anthracene	- -	43.4	1,300	ug/L	<0.20 J	NA
Aramite	- -	- -	2.7	ug/L	<1.5 J	NA
Benzo(a)anthracene	- -	0.091743119	0.029	ug/L	<0.20 J	NA
Benzo(b)fluoranthene	- -	0.091743119	0.029	ug/L	<0.20 J	NA
Benzo(g,h,i)perylene	- -	1,095	- -	ug/L	<0.20 J	NA
Benzo(k)fluoranthene	- -	0.917431193	0.29	ug/L	<0.20 J	NA
Benzyl Alcohol	- -	10,950	1,500	ug/L	<0.98 J	NA
bis(2-Chloroethoxy)methane	- -	- -	47	ug/L	<0.98 J	NA
bis(2-Chloroethyl)ether	- -	0.009202473	0.012	ug/L	<0.98 J	NA
Butylbenzylphthalate	- -	2,690	14	ug/L	<0.98 J	NA
Chrysene	- -	9.174311927	2.9	ug/L	<0.20 J	NA
Diallate	- -	- -	0.46	ug/L	<0.98 J	NA
Dibenzo(a,h)anthracene	- -	0.009174312	0.0029	ug/L	<0.20 J	NA
Dibenzofuran	- -	24.33333333	5.8	ug/L	<0.98 J	NA
Diethylphthalate	- -	29,200	11,000	ug/L	<0.98 J	NA
Dimethoate	- -	- -	3.1	ug/L	<2.0 J	NA
Dimethylphthalate	- -	365,000	- -	ug/L	<0.98 J	NA
Di-n-Butylphthalate	- -	3,650	670	ug/L	<0.98 J	NA
Di-n-Octylphthalate	- -	20	- -	ug/L	<0.98 J	NA
Diphenyl Ether	- -	- -	- -	ug/L	<0.98 J	NA
Disulfoton	- -	1.46	0.38	ug/L	<0.98 J	NA
Ethyl Methanesulfonate	- -	- -	- -	ug/L	<2.0 J	NA
Ethyl Parathion	- -	219	65	ug/L	<2.0 J	NA
Famphur	- -	- -	- -	ug/L	<0.98 J	NA
Fluoranthene	- -	1,460	630	ug/L	<0.20 J	NA
Fluorene	- -	243.3333333	220	ug/L	<0.20 J	NA
Hexachlorobutadiene	- -	0.858621501	0.26	ug/L	<0.98 J	NA
Hexachloroethane	- -	4.783748362	0.79	ug/L	<0.98 J	NA
Hexachlorophene	- -	10.95	4.7	ug/L	<490 J	NA
Hexachloropropene	- -	- -	- -	ug/L	<0.98 J	NA
Indeno(1,2,3-cd)pyrene	- -	0.091743119	0.029	ug/L	<0.20 J	NA
Isophorone	- -	70.49734428	67	ug/L	<0.98 J	NA
Isosafrole	- -	- -	- -	ug/L	<0.98 J	NA
Methapyrilene	- -	- -	- -	ug/L	<200 J	NA
Methyl Methanesulfonate	- -	- -	0.68	ug/L	<2.0 J	NA
Methyl Parathion	- -	9.125	3.4	ug/L	<0.98 J	NA
Naphthalene	- -	6.203966006	0.14	ug/L	<0.20 J	NA
Nitrobenzene	- -	3.532258065	0.12	ug/L	<0.98 J	NA
N-Nitrosodiethylamine	- -	0.000446483	0.00014	ug/L	<0.98 J	NA
N-Nitrosodimethylamine	- -	0.001313186	0.00042	ug/L	<0.98 J	NA
N-Nitroso-di-n-butylamine	- -	0.001894431	0.0024	ug/L	<0.98 J	NA
N-Nitroso-di-n-propylamine	- -	0.009567497	0.0093	ug/L	<0.98 J	NA
N-Nitrosodiphenylamine	- -	13.66785246	10	ug/L	<0.98 J	NA
N-Nitrosomethylethylamine	- -	0.003044204	0.003	ug/L	<2.0 J	NA

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N-Nitrosomorpholine	- -	- -	0.01	ug/L	<0.98 J	NA
N-Nitrosopiperidine	- -	- -	0.0071	ug/L	<0.98 J	NA
N-Nitrosopyrrolidine	- -	0.031891656	0.032	ug/L	<0.98 J	NA
o,o,o-Triethylphosphorothioate	- -	- -	- -	ug/L	<0.98 J	NA
o-Toluidine	- -	0.279051988	- -	ug/L	<0.98 J	NA
p-Dimethylaminoazobenzene	- -	- -	0.0043	ug/L	<4.9 J	NA
Pentachlorobenzene	- -	29.2	2.3	ug/L	<0.98 J	NA
Pentachloronitrobenzene	- -	0.25758645	0.1	ug/L	<0.98 J	NA
Phenacetin	- -	- -	30	ug/L	<0.98 J	NA
Phenanthrene	- -	1,095	- -	ug/L	<0.20 J	NA
Phenol	- -	21,900	4,500	ug/L	<0.98 J	NA
Phorate	- -	- -	2.3	ug/L	<0.98 J	NA
Pronamide	- -	- -	900	ug/L	<0.98 J	NA
Pyrene	- -	182.5	87	ug/L	<0.20 J	NA
Pyridine	- -	36.5	15	ug/L	<4.9 J	NA
Safrole	- -	- -	0.062	ug/L	<0.98 J	NA
Sulfotep	- -	- -	5.3	ug/L	<0.98 J	NA
Thionazin	- -	- -	- -	ug/L	<0.98 J	NA
SVOCs_E525.2						
Alachlor	2	2	0.91	ug/L	<0.19	NA
Atrazine	3	3	0.26	ug/L	<0.19	NA
Benzo(a)pyrene	0.2	0.2	0.0029	ug/L	<0.19	NA
bis(2-Ethylhexyl)adipate	400	400	56	ug/L	<1.5	NA
bis(2-Ethylhexyl)phthalate	6	6	0.071	ug/L	<1.9	NA
Hexachlorobenzene	1	1	0.042	ug/L	<0.19	NA
Hexachlorocyclopentadiene	50	50	22	ug/L	<1.9 J	NA
Methoxychlor	40	40	27	ug/L	<0.49	NA
Simazine	4	4	0.52	ug/L	<0.49	NA
Organochlorine Pest_8081						
4,4'-DDD	- -	0.279051988	0.28	ug/L	<0.095	NA
4,4'-DDE	- -	0.196977874	0.2	ug/L	<0.095	NA
4,4'-DDT	- -	0.196977874	0.2	ug/L	<0.095	NA
4-Chlorobenzilate	- -	0.248046211	0.27	ug/L	<0.47	NA
Aldrin	- -	0.003939557	0.00021	ug/L	<0.047	NA
Alpha-BHC	- -	0.010630552	0.0062	ug/L	<0.047	NA
Beta-BHC	- -	0.037206932	0.022	ug/L	<0.047	NA
Delta-BHC	- -	- -	- -	ug/L	<0.047	NA
Dieldrin	- -	0.00418578	0.0015	ug/L	<0.095	NA
Endosulfan I	- -	219	- -	ug/L	<0.047	NA
Endosulfan II	- -	219	- -	ug/L	<0.095	NA
Endosulfan Sulfate	- -	- -	- -	ug/L	<0.095	NA
Endrin Aldehyde	- -	- -	- -	ug/L	<0.095	NA
Endrin Ketone	- -	- -	- -	ug/L	<0.095	NA
Isodrin	- -	- -	- -	ug/L	<0.047	NA
Kepone	- -	- -	0.003	ug/L	<0.95	NA
PCBs_E508.1						
Aroclor-1016	- -	0.956749672	0.96	ug/L	R	NA
Aroclor-1221	- -	0.033486239	0.0043	ug/L	R	NA
Aroclor-1232	- -	0.033486239	0.0043	ug/L	R	NA
Aroclor-1242	- -	0.033486239	0.034	ug/L	R	NA
Aroclor-1248	- -	0.033486239	0.034	ug/L	R	NA
Aroclor-1254	- -	0.033486239	0.034	ug/L	R	NA
Aroclor-1260	- -	0.033486239	0.034	ug/L	R	NA
Endrin	2	2	1.7	ug/L	<0.047	NA
Gamma-BHC (Lindane)	0.2	0.2	0.036	ug/L	<0.024	NA

Table A-10. Summary of Residential Well Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	MCLs	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	PW-CMS-01 (022712) 02/27/12 PW-CMS-01	PW-CMS-01 (022812) 02/28/12 PW-CMS-01
Heptachlor	0.4	0.4	0.0018	ug/L	<0.024	NA
Heptachlor Epoxide	0.2	0.2	0.0033	ug/L	<0.024	NA
Methoxychlor	40	40	27	ug/L	<0.094	NA
Technical Chlordane	- -	2	- -	ug/L	<0.24	NA
Total PCBs	0.5	0.5	0.17	ug/L	R	NA
Toxaphene	3	3	0.013	ug/L	<2.4	NA
Herbicides_8151						
2,2-Dichloropropionic Acid	200	200	470	ug/L	<9.5	NA
2,4,5-T	- -	365	120	ug/L	<0.48	NA
2,4,5-TP	50	50	84	ug/L	<0.48	NA
2,4-D	70	70	130	ug/L	<0.48	NA
4-Amino-3,5,6-Trichloropicolinic Acid	500	- -	1,100	ug/L	<0.48	NA
Dinoseb	7	7	11	ug/L	<2.9	NA
Pentachlorophenol	1	1	0.17	ug/L	<0.19	NA
Dioxathion/Dioxenethion_8310						
cis-Dioxathion	- -	54.75	- -	ug/L	NA	<2.91
Dioxenethion	- -	- -	- -	ug/L	NA	<0.581
trans-Dioxathion	- -	54.75	- -	ug/L	NA	<2.91
Dioxins and Furans_1613						
1,2,3,4,6,7,8-HpCDD	- -	44.6483	- -	pg/L	<47.6	NA
1,2,3,4,6,7,8-HpCDF	- -	44.6483	- -	pg/L	<47.6	NA
1,2,3,4,7,8,9-HpCDF	- -	44.6483	- -	pg/L	<47.6	NA
1,2,3,4,7,8-HxCDD	- -	4.46483	- -	pg/L	<47.6	NA
1,2,3,4,7,8-HxCDF	- -	4.46483	- -	pg/L	<47.6	NA
1,2,3,6,7,8-HxCDD	- -	10.802	- -	pg/L	<47.6	NA
1,2,3,6,7,8-HxCDF	- -	4.46483	- -	pg/L	<47.6	NA
1,2,3,7,8,9-HxCDD	- -	10.802	- -	pg/L	<47.6	NA
1,2,3,7,8,9-HxCDF	- -	4.46483	- -	pg/L	<47.6	NA
1,2,3,7,8-PeCDD	- -	0.892966	- -	pg/L	<47.6	NA
1,2,3,7,8-PeCDF	- -	8.92966	- -	pg/L	<47.6	NA
2,3,4,6,7,8-HxCDF	- -	4.46483	- -	pg/L	<47.6	NA
2,3,4,7,8-PeCDF	- -	0.892966	- -	pg/L	<47.6	NA
2,3,7,8-TCDD	30	30	0.52	pg/L	<9.52	NA
2,3,7,8-TCDF	- -	4.46483	- -	pg/L	<9.52	NA
Octachlorodibenzofuran	- -	446.483	- -	pg/L	<95.2	NA
Octachlorodibenzo-p-Dioxin	- -	446.483	- -	pg/L	<95.2	NA
Total Metals_200.8						
Antimony	6	6	6	ug/L	<1.0	NA
Arsenic	10	50	0.045	ug/L	**0.76 J**	NA
Barium	2,000	2,000	2,900	ug/L	**50**	NA
Beryllium	4	4	16	ug/L	<0.40	NA
Cadmium	5	5	6.9	ug/L	<0.10	NA
Chromium	100	- -	- -	ug/L	<2.0	NA
Copper	1,300	1,300	620	ug/L	**14**	NA
Lead	15	15	- -	ug/L	**1.2**	NA
Mercury	2	2	0.63	ug/L	<0.20	NA
Selenium	50	50	78	ug/L	**0.61 J**	NA
Thallium	2	2	0.16	ug/L	<0.20	NA
Total Metals_245.1						
Mercury	2	2	0.63	ug/L	<0.20	NA
Total Metals_200.7						
Aluminum	- -	36,500	16,000	ug/L	<200	NA
Cobalt	- -	2,190	4.7	ug/L	<10	NA
Iron	- -	10,950	11,000	ug/L	**55**	NA
Manganese	- -	730	320	ug/L	**14**	NA

Table A-10. Summary of Residential Well Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	MCLs	GROUNDWATER TIER 1 TRG	RSL TAPWATER	Units	PW-CMS-01 (022712) 02/27/12 PW-CMS-01	PW-CMS-01 (022812) 02/28/12 PW-CMS-01
Nickel	- -	730	300	ug/L	<40	NA
Silver	- -	182.5	71	ug/L	<10	NA
Tin	- -	21,900	9,300	ug/L	<50	NA
Vanadium	- -	255.5	78	ug/L	<10	NA
Zinc	- -	10,950	4,700	ug/L	**16 J**	NA
Cyanide						
Cyanide	0.2	0.2	0.0093	mg/L	<0.010	NA
Sulfide						
Sulfide	- -	- -	- -	mg/L	**1.4**	NA

PCBs - Polychlorinated Biphenyls.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
VOCs - Volatile Organic Compounds.
SVOCs - Semivolatile Organic Compounds.

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Appendix A-11

Summary of Soil Gas Analytical Results, Human Health Comparison Criteria

Table A-11. Summary of Soil Gas Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	SOIL GAS INDUSTRIAL AIR SCREENING LEVEL	SOIL GAS RESIDENTIAL AIR SCREENING LEVEL	Units	SG-AO-SG-01(032712) 03/27/12 AO-SG-01	SG-AO-SG-02(032712) 03/27/12 AO-SG-02	SG-AO-SG-03(032812) 03/28/12 AO-SG-03	SG-AO-SG-04(040212) 04/02/12 AO-SG-04	SG-AO-SG-05(040212) 04/02/12 AO-SG-05
Volatile Organic Compounds_TO15								
1,1,1-Trichloroethane	220,000	52,000	ug/m3	<980	<1.6	<1.5 [<1.5]	<1.6	<1.6
1,1,2,2-Tetrachloroethane	2.1	0.42	ug/m3	<2,500	<4.2	<3.8 [<3.8]	<4.2	<4.2
1,1,2-trichloro-1,2,2-trifluoroethane	1,300,000	310,000	ug/m3	<1,400	<2.4	<2.2 [<2.2]	<2.4	<2.4
1,1,2-Trichloroethane	7.7	1.5	ug/m3	<1,800	<2.9	<2.7 [<2.7]	<2.9	<2.9
1,1-Dichloroethane	77	15	ug/m3	<630	<1.1	<0.96 [<0.96]	<1.1	<1.1
1,1-Dichloroethene	8,800	2,100	ug/m3	<760	<1.3	<1.2 [<1.2]	<1.3	<1.3
1,2,4-Trichlorobenzene	88	21	ug/m3	<4,400	<7.3	<6.6 [<6.6]	<7.3	<7.3
1,2,4-Trimethylbenzene	310	73	ug/m3	<1,900	**8.1 J**	<2.8 [<2.8]	**15 est**	<3.1
1,2-Dibromoethane	0.2	0.041	ug/m3	<2,000	<3.4	<3.1 [<3.1]	<3.4	<3.4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	- -	- -	ug/m3	<1,300	<2.2	<2 [<2]	<2.2	<2.2
1,2-Dichlorobenzene	8,800	2,100	ug/m3	<2,500	<4.2	<3.8 [<3.8]	<4.2	<4.2
1,2-Dichloroethane	4.7	0.94	ug/m3	<1,100	<1.9	<1.7 [<1.7]	<1.9	<1.9
1,2-Dichloropropane	12	2.4	ug/m3	<1,400	<2.4	<2.2 [<2.2]	<2.4	<2.4
1,3,5-Trimethylbenzene	- -	- -	ug/m3	<1,900	<3.2	<2.9 [<2.9]	**3.9 Jest**	<3.2
1,3-Dichlorobenzene	- -	- -	ug/m3	<2,300	<3.9	<3.6 [<3.6]	<3.9	<3.9
1,4-Dichlorobenzene	11	2.2	ug/m3	<2,300	<3.8	<3.5 [<3.5]	<3.8	<3.8
Benzene	16	3.1	ug/m3	<1,100	<1.8	<1.6 [<1.6]	**35 est**	**5.4 J**
Benzyl Chloride	2.5	0.5	ug/m3	<2,400	<4	<3.7 [<3.7]	<4	<4
Bromomethane	220	52	ug/m3	<740	<1.2	<1.1 [<1.1]	<1.2	<1.2
Carbon Tetrachloride	20	4.1	ug/m3	**490,000**	<2.4	**55 [59]**	<2.4	<2.4
Chlorobenzene	2,200	520	ug/m3	<1,400	<2.3	<2.1 [<2.1]	<2.3	<2.3
Chloroethane	440,000	100,000	ug/m3	<550	<0.92	<0.84 [<0.84]	**1.2 Jest**	<0.92
Chloroform	5.3	1.1	ug/m3	**29,000**	**1.9 J**	**5.9 J [4.7 J]**	**6.3 Jest**	**2.2 J**
Chloromethane	3,900	940	ug/m3	**5,000 J**	<3.3	<3 [<3]	**23 est**	<3.3
cis-1,2-Dichloroethene	- -	- -	ug/m3	<1,400	<2.4	<2.2 [<2.2]	<2.4	<2.4
cis-1,3-Dichloropropene	- -	- -	ug/m3	<2,000	<3.4	<3.1 [<3.1]	<3.4	<3.4
Dichlorodifluoromethane	4,400	1,000	ug/m3	<2,000	<3.4	<3.1 [<3.1]	**3.6 Jest**	<3.4
Ethylbenzene	49	9.7	ug/m3	<1,800	<3	<2.7 [<2.7]	**16 est**	<3
Hexachlorobutadiene	5.6	1.1	ug/m3	<5,000	<8.3	<7.6 [<7.6]	<8.3	<8.3
Methylene Chloride	12,000	960	ug/m3	**5,500 J**	**3.0 J**	**3.7 J [3.1 J]**	**10 JBest**	**3.6 JB**
o,p-Xylene	- -	- -	ug/m3	<3,100	**7.3 J**	<4.7 [<4.7]	**33 est**	**5.2 J**
o-Xylene	4,400	1,000	ug/m3	<1,600	**3.0 J**	<2.4 [<2.4]	**13 est**	<2.6
Styrene	44,000	10,000	ug/m3	<1,500	<2.5	<2.2 [<2.2]	**6.3 Jest**	<2.5
Tetrachloroethene	470	94	ug/m3	<1,600	<2.7	<2.5 [<2.5]	**21 est**	**5.4 J**
Toluene	220,000	52,000	ug/m3	<1,200	**5.0 J**	<1.8 [<1.8]	**79 est**	**11**
trans-1,3-Dichloropropene	- -	- -	ug/m3	<1,300	<2.2	<2 [<2]	<2.2	<2.2
Trichloroethene	30	4.3	ug/m3	<1,200	<1.9	<1.8 [<1.8]	**2.5 Jest**	<1.9
Trichlorofluoromethane	31,000	7,300	ug/m3	<810	**1.6 J**	**1.7 J [1.8 J]**	**3.3 Jest**	<1.3
Vinyl Chloride	28	1.6	ug/m3	<1,100	<1.8	<1.6 [<1.6]	<1.8	<1.8

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Appendix A-12

Summary of Ambient Air Analytical Results, Human Health Comparison Criteria

Table A-12. Summary of Ambient Air Analytical Results, Human Health Comparison Criteria, Constituents of Potential Concern Technical Report, Hercules Incorporated, Hattiesburg, Mississippi.

Sample Name: Date Collected: Location ID:	INDUSTRIAL AIR SCREENING LEVEL	RESIDENTIAL AIR SCREENING LEVEL	Units	AA-AO-BDB-01(050112) 05/01/12 AO-BDB-01	AA-AO-BDB-01(062712) 06/27/12 AO-BDB-01	CS-AO-BDB-01(050112) 05/02/12 AO-BDB-01	CS-AO-BDB-01(062712) 06/27/12 AO-BDB-01
Volatile Organic Compounds_TO15							
1,1,1-Trichloroethane	22,000	5,200	ug/m3	<3.0	<0.44	<1.1	<0.44
1,1,2,2-Tetrachloroethane	0.21	0.042	ug/m3	<3.8	<0.55	<1.4	<0.55
1,1,2-trichloro-1,2,2-trifluoroethane	130,000	31,000	ug/m3	<4.2	**0.57 J**	**0.49 J**	**0.56 J**
1,1,2-Trichloroethane	0.77	0.15	ug/m3	<3.0	<0.44	<1.1	<0.44
1,1-Dichloroethane	7.7	1.5	ug/m3	<2.2	<0.32	<0.81	<0.32
1,1-Dichloroethene	880	210	ug/m3	<2.2	<0.32	<0.79	<0.32
1,2,4-Trichlorobenzene	8.8	2.1	ug/m3	<20	<3.0	<7.4	<3.0
1,2,4-Trimethylbenzene	31	7.3	ug/m3	**11**	<0.39	<0.98	**1.5**
1,2-Dibromoethane	0.02	0.0041	ug/m3	<4.2	<0.61	<1.5	<0.61
1,2-Dichloro-1,1,2,2-tetrafluoroethane	- -	- -	ug/m3	<3.8	<0.56	<1.4	**0.099 J**
1,2-Dichlorobenzene	880	210	ug/m3	<3.3	<0.48	<1.2	<0.48
1,2-Dichloroethane	0.47	0.094	ug/m3	**0.87 J**	<0.32	<0.81	<0.32
1,2-Dichloropropane	1.2	0.24	ug/m3	<2.5	<0.37	<0.92	<0.37
1,3,5-Trimethylbenzene	- -	- -	ug/m3	**4.5**	<0.39	<0.98	**0.89**
1,3-Dichlorobenzene	- -	- -	ug/m3	<3.3	<0.48	<1.2	<0.48
1,4-Dichlorobenzene	1.1	0.22	ug/m3	<3.3	<0.48	<1.2	<0.48
Benzene	1.6	0.31	ug/m3	**5.1**	**0.77**	**0.23 J**	**0.71**
Benzyl Chloride	0.25	0.05	ug/m3	<5.7	<0.83	<2.1	<0.83
Bromomethane	22	5.2	ug/m3	<2.1	<0.31	<0.78	<0.31
Carbon Tetrachloride	2	0.41	ug/m3	<3.5	**0.61**	**0.46 J**	**0.68**
Chlorobenzene	220	52	ug/m3	<2.5	<0.37	<0.92	<0.37
Chloroethane	44,000	10,000	ug/m3	<1.5	<0.21	<0.53	<0.21
Chloroform	0.53	0.11	ug/m3	**0.89 J**	**0.13 J**	<0.98	**0.15 J**
Chloromethane	390	94	ug/m3	<2.8	**1.4**	**1.1**	**1.3**
cis-1,2-Dichloroethene	- -	- -	ug/m3	<2.2	<0.32	<0.79	**0.15 J**
cis-1,3-Dichloropropene	- -	- -	ug/m3	<2.5	<0.36	<0.91	<0.36
Dichlorodifluoromethane	440	100	ug/m3	**2.2 J**	**2.3**	**2.1**	**2.3**
Ethylbenzene	4.9	0.97	ug/m3	**23**	**0.72**	<0.87	**0.45**
Hexachlorobutadiene	0.56	0.11	ug/m3	<29	<4.3	<11	<4.3
Methylene Chloride	1,200	96	ug/m3	**120**	**1.4 B**	**2.6**	**5.0 B**
o,p-Xylene	- -	- -	ug/m3	**81**	**1.4**	**0.62 J**	**2.4**
o-Xylene	440	100	ug/m3	**25**	**0.31 J**	<0.87	**1.1**
Styrene	4,400	1,000	ug/m3	**12**	<0.34	<0.85	**0.27 J**
Tetrachloroethene	47	9.4	ug/m3	<3.7	**1.1**	<1.4	<0.54
Toluene	22,000	5,200	ug/m3	**200**	**17**	**1.2**	**8.1**
trans-1,3-Dichloropropene	- -	- -	ug/m3	<2.5	<0.36	<0.91	<0.36
Trichloroethene	3	0.43	ug/m3	**8.1**	**6.2**	<1.1	<0.21
Trichlorofluoromethane	3,100	730	ug/m3	**1.2 J**	**1.4**	**1.2**	**2.9**
Vinyl Chloride	2.8	0.16	ug/m3	<1.4	<0.20	<0.51	<0.20