FIRST FIVE-YEAR REVIEW REPORT FOR
CAMILLA WOOD PRESERVING SUPERFUND SITE
MITCHELL COUNTY, GEORGIA

Prepared by

U.S. Environmental Protection Agency
Region 4
CAMILLA, GEORGIA

Franklin E. Hill, Director
Superfund Division

Date 9/21/17

Table of Contents

LIST OF ABBREVIATIONS & ACRONYMS

Black & Veatch	Black & Veatch Special Projects Corp.
BaP	Benzo(a)pyrene
bgs	Below Ground Surface
BRA	Baseline Risk Assessment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CIC	Community Involvement Coordinator
COC	Chemicals of Concern
cPAH	Carcinogenic Polycyclic Aromatic Hydrocarbons
DNAPL	dense non-aqueous phase liquid
DPT	Direct Push Technology
EPA	United States Environmental Protection Agency
FYR	Five-Year Review
GDOT	Georgia Department of Transportation
GEPD	Georgia Environmental Protection Division
HI	Hazard Index
HRS	Hazardous Ranking System
IC	Institutional Control
ISCO	In-situ Chemical Oxidation
µg/L	microgram per liter
µg/m^3	micrograms per cubic meter
MCL	maximum concentration levels
mg/kg-day	milligrams per kilogram per day
M/T/V	mobility/toxicity/volume
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
O&M	Operation and Maintenance
OU	Operating Unit
oz	ounce
PCP	Pentachlorophenol
PAH	Polycyclic Aromatic Hydrocarbons
RA	Remedial Action
RAO	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RfD	Reference Dose
RG	Remedial Goal
RGO	Remedial Goal Option
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RPM	Remedial Project Manager
SIM	Select Ion Monitoring
Site	Camilla Wood Preserving Superfund Site
SRI	Supplementary Remedial Investigation
SVOC	Semivolatile Organic Compounds
TCDD	Tetrachlorodibenzo-p-dioxin
TEQ	Toxicity Equivalents
UU/UE	Unlimited Use/Unrestricted Exposure

I. INTRODUCTION

The purpose of a Five-Year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in five-year review reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The U.S. Environmental Protection Agency (EPA) is preparing this five-year review pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121, consistent with the National Contingency Plan (NCP)(40 CFR Section 300.430(f)(4)(ii)), and considering the EPA policy.

This is the first FYR for the Camilla Wood Preserving Superfund Site. The triggering action for this statutory review is the on-Site construction start date of the remedial action (RA), which was on June 4, 2012. The FYR has been prepared because hazardous substances, pollutants, or contaminants remain at the Site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The Site was not divided into operable units (OUs). The soil and groundwater remedy for the entire Site are addressed in this FYR.

The Camilla Wood Preserving Superfund Site FYR was led by Scott Miller, the EPA Remedial Project Manager (RPM), the EPA Region 4. Participants included Ronald Tolliver, the EPA Community Involvement Coordinator (CIC). The review began on 9/7/2016.

Site Background

The Camilla Wood Preserving Superfund Site (Site) is located in the community of Camilla, Mitchell County, Georgia, approximately 0.25 miles west of U.S. Highway 19. The Superfund Site boundary encompasses the inactive Camilla Wood Preserving Company facility and the properties located east of Thomas Street between Bennett Street to the north, Powell Street to the south, and the railroad property to the east. The inactive wood treating facility is bordered by South Harney Street to the west, Thomas Street to the east, and Bennett Street to the north. A Georgia Department of Transportation (GDOT) facility and City of Camilla landfill border the facility to the south. The Site is comprised of an approximately 41-acre area. The adjacent properties located to the south of the eastern portion of the Site (including the GDOT facility and a former City Dump) comprise approximately 11 acres. Residential neighborhoods are located just north of the Site and approximately 0.25 miles to the west of the Site. Local residences have their drinking water supplied to them from the City of Camilla municipal water supply system. The City of Camilla municipal supply wells are more than 300 feet deep and withdraw water from the Ocala Limestone. Several deep sentinel wells between the Site and City of Camilla water supply well monitor the migration of COCs and confirm that Site-related contamination has not impacted the Ocala Limestone aquifer. The western portion of the Site, comprising approximately 23 acres, was remediated by the EPA in 2006 and has been successfully restored to serve as an athletic complex, including soccer fields and administrative offices for Mitchell County Recreation. The Site location and Site layouts are shown on Figures 1-1 and 1-2, provided in Appendix B.

Wood treating operations began at the Site in 1947. The facility was constructed by the Louis Wood Preserving Company on land that was previously a cypress swamp. In 1950, the Escambia Treating Company purchased the property and continued wood preserving operations. In 1985, through a series of corporate reorganizations and stock transfers, International Utility and Supply Corporation assumed control of the company and facility operations. The Escambia Treating Company retained the surface impoundments and their associated environmental liabilities. At that time, the name of the operating company was changed to Camilla Wood Preserving, Inc. On February 8, 1991, Camilla Wood Preserving, Inc., filed for bankruptcy protection, and on February 26, 1991, the facility closed.

During 44 years of wood treating operations, the facility prepared trees for treatment and treated prepared poles using either coal tar creosote or a solution of ten percent pentachlorophenol (PCP). After treatment, the poles were removed to the drip track area for drying and storage. Initially, wastewater generated throughout the process was collected in unlined impoundments located in the northeastern portion of the Site near the corner of Thomas and Bennett Streets. Later, the waste streams were treated in an onsite wastewater treatment system, before being discharged to the City of Camilla's wastewater treatment plant. In the 1960s, surface water and sometimes wastewater drained into two injection wells in the south-central portion of the property. These wells likely drained into the aquifer, and the Georgia State Water Board ordered the wells sealed in 1996.

FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION		
Site Name: Camilla Wood Preserving		
EPA ID: GAD008212409		
Region: 4	**State:** GA	**City/County:** Camilla, Mitchell County
SITE STATUS		
NPL Status: Final		
Multiple OUs? No	**Has the site achieved construction completion?** Yes	
REVIEW STATUS		
Lead agency: EPA *[If "Other Federal Agency", enter Agency name]*:		
Author name (Federal or State Project Manager): Scott Miller		
Author affiliation: EPA		
Review period: 9/7/2016 - 6/4/2017		
Date of site inspection: 1/10/2017		
Type of review: Statutory		
Review number: 1		
Triggering action date: 6/4/2012		
Due date *(five years after triggering action date)*: 6/4/2017		

II. RESPONSE ACTION SUMMARY

Basis for Taking Action

As described in the Record of Decision (ROD) (EPA, 2009), the Site Baseline Risk Assessment (BRA) provided the basis for taking action and identified the contaminants and exposure pathways to be addressed by the RA.

Based on the understanding of the fate and transport of contaminants and the potential for human contact, the following scenarios, exposure pathways, and exposure routes were quantitatively evaluated in the BRA and presented in the ROD:

- Future On-Site/Off-Site Recreational Users. Child and adult recreational users may participate in recreational activities at the Site. Potential routes of exposure for the On-Site child and adult recreational users include ingestion, inhalation, and dermal contact with Chemicals of Concern (COCs) in surface soil.
- Future On-Site Construction/Excavation Worker. Future construction/excavation workers may be exposed to COCs in soil while working at the Site. Potential exposure routes for the construction/excavation worker include incidental ingestion of, dermal contact with, and inhalation of particulate emissions from surface and subsurface soil. Future construction/excavation workers may also be exposed to COCs in groundwater via ingestion.
- Future On-Site Resident. Residents may be exposed to the COCs in groundwater and surface soil if the land use allowed for residential development at the Site. Potential routes of exposure for the On-Site child and adult residents include ingestion, inhalation, and dermal contact with groundwater while showering, ingestion and dermal contact with COCs in surface soil.

Since future receptors represent the greatest potential risk, the ROD presented risks and hazards for future receptors. According to the ROD, "The risks and hazards relevant to the action proposed in this ROD are presented for the future recreational users, future On-Site construction/excavation worker and future residents. These receptors represent the greatest potential risk and justify implementation of the Selected Remedy."

The contaminants listed below by media, were present above the acceptable target carcinogenic risk of $1x10^{-5}$, or the acceptable target non-carcinogenic risk at a Hazard Index (HI) of 1.

- Surface soil – carcinogenic polycyclic aromatic hydrocarbon (cPAH) benzo(a)pyrene (BaP) equivalents, dibenzofuran, pentachlorophenol, and 2,3,7,8-TCDD TEQ (dioxin).
- Subsurface soil - cPAH BaP equivalents, 2-methylnaphthalene, and pentachlorophenol.
- Shallow groundwater (screened intervals ranging from approximately 15 to 25 feet below ground surface [bgs]) – benzene, 2,4-dimethylphenol, 2-methylnaphthalene, cPAH BaP equivalents, carbazole, dibenzofuran, naphthalene, pentachlorophenol, phenanthrene, arsenic, and manganese.
- Intermediate groundwater (screened intervals ranging from 60 to 70 feet bgs to 160 to 170 feet bgs targeted just below the top of the Ocala Limestone) – benzene, ethylbenzene, 2-methylnaphthalene, acenaphthene, cPAH BaP equivalents, carbazole, dibenzofuran, fluorene, naphthalene, pentachlorophenol, phenanthrene, arsenic, manganese, and nickel.

Numerical Remedial Goal Options (RGOs) were developed for individual chemicals contributing to each exposure pathway, if their contribution was more than 10^{-6} risk for carcinogens or a hazard quotient more than 0.1 for noncarcinogens. Soil and groundwater RGOs were considered in development of Site remedial goals (RGs).

The ecological risk assessment concluded that the potential for adverse risk to wildlife from contaminants at the Camilla Wood Site are low and not expected to be ecologically significant. The Site has been mostly covered with gravel and backfill following soil removal actions. Therefore, most of the area provides poor habitat conditions for wildlife. Although a few small areas may pose some risks to individuals that may reside on or adjacent to the Site, the assessment concluded that populations of local birds and small mammals are not threatened.

Response Actions

RCRA Sampling and Initial Removal Action

Between 1980 and 1991, the Georgia Environmental Protection Division (GEPD) conducted Resource Conservation and Recovery Act (RCRA) sampling and testing. Sampling found elevated concentrations of

hazardous waste constituents in soil at the former creosote recovery unit, the eastern and western cooling water ponds, and from the evaporation pond.

In 1991 after facility closure, the EPA secured the Site by placing a fence along the perimeter. Between 1991 and 1995, the EPA conducted a series of removal actions to clean up contamination at the Site. During this time, the EPA:

- Treated approximately 667,000 gallons of contaminated wastewater.
- Backfilled 75 percent of the impoundment area.
- Stabilized the remaining impoundment area that contained sludge.
- Installed a protective cap over the impoundment area.
- Removed approximately nine tons of contaminated soil from a parking lot, an easement along Bennett Street, and four residential properties across Bennett Street.

Soils from residential yards north of East Bennett Street were reportedly excavated by the EPA in October 1994 and backfilled with clean fill (EPA, 2006). In 1998, during the RI, surface and subsurface soil grid samples were collected from the residences. None of the surface soil samples were above RGs, including the 1 µg/kg RG for dioxin.

In 1998, the Site was proposed for the National Priorities List (NPL) due to the magnitude of remaining soil and groundwater contamination.

Site Investigations

The GEPD conducted numerous investigations of the Site since closure in February 1991. In May, June, and July 1997, GEPD conducted a Site Assessment to characterize soil and groundwater contamination in the extreme northeastern portion of the Site. Results indicated that elevated levels of wood treating solution compounds were present in the underlying soil and groundwater.

Between 2002 and 2009, the EPA conducted a Supplementary Remedial Investigation (SRI) in four phases.

- Phases 1 and 2 investigations in 2002 confirmed polyaromatic hydrocarbons (PAH) concentrations at most soil sampling locations, with the highest detections found in the drip track area in the northwest portion of the Site. The EPA addressed the drip track area with a removal action in 2006. PCP was found to be widespread in surface soil, and concentrations of it were found in the shallow aquifer. PCP concentrations were highest east of Thomas Street and on Singleton Street, which is north-northeast of the Site.

- Phase 3, conducted in 2004, concluded that the extent of contamination in shallow groundwater had been adequately defined; however, contamination from the shallow aquifer had reached into the deeper intermediate aquifer.

- Phase 4, conducted between 2006 and 2008, began with the installation of monitoring wells in the intermediate aquifer. In March 2008, a small-scale in-situ chemical oxidation (ISCO) study using potassium permanganate began. Investigative results showed a continuing increase in PCP concentrations in one well, despite the addition of increasing doses of potassium permanganate. Additionally, concentrations of naphthalene, PCP, and total PAHs continued to increase in monitoring well MW10I (located near the eastern edge of the Site along Thomas Street).

  In 2008, the EPA increased the dose of potassium permanganate in a previously existing well, MWPBEI, on the west half of the Site well by ten times. Eastern pole barn well MWPBEI was closed during

remedial construction and well MW28I was installed in its place. In 2009, groundwater sampling results showed a noted absence of shallow groundwater contamination in wells on the portion of the property used by the Mitchell County Recreation Department. Free product was noted in wells near the eastern and northern edges of the Site along Thomas and Bennett Streets.

Time-Critical Removal Action

Results of Site investigations and propensity of the Site to flooding resulted in a response action. Between 2006 and 2007, the Superfund Removal Program conducted a contamination assessment for removal actions and excavated soil and sediment containing cPAHs, PCP, dioxin, and creosote contamination on the western portion of the Site through a time-critical removal action (EPA, 2008). Approximately 10,000 cubic yards of excavated soil were placed in a soil pile on the eastern portion of the Site, were compacted, and covered with a 12 mil woven polyliner. Approximately 12 inches of soil was placed over the polyliner to provide a base for vegetative cover. Other contaminated waste removed/recycled and disposed from the Site included scrap steel, tin, and railroad ties/poles. The former pole barn structures were removed, and the ditch channel was improved. Species inhabiting the ditch were captured and relocated. After contaminated soil was excavated from the recreational areas, a 4 ounce (oz) geo-filter fabric was emplaced before the areas were backfilled with clean fill, graded, and tested, and topsoil and sod were placed throughout the two soccer fields (EPA, 2007). Chain link fencing was installed to separate the east and west portions of the Site.

Remedial Investigation/Feasibility Study

In 2009, the EPA and GEPD completed a Remedial Investigation/Feasibility Study (RI/FS), which summarized the nature and extent of the contaminants (Black & Veatch, 2009). The RI/FS documented and evaluated alternatives that would address Site contamination.

Results of the RI/FS determined that cPAHs were generally detected in surface soil throughout the Site with the exception of the 2006-2007 removal action area. The highest concentrations of cPAHs and PCP were located in the former chemical area, located across Powell Street - east of the Site. Higher concentrations of cPAHs and PCPs were noted in subsurface soil (greater than 6 inches in depth) than in surface soil. Dioxins were noted in surface soil (less than 6 inches of soil depth).

PCP was noted to be fairly widespread in the intermediate groundwater wells at the Site, but limited to the area west of the railroad tracks east of the Site. Naphthalene contamination in groundwater appeared to be isolated to two plumes (one practically bisecting the eastern portion of the Site in an east-west direction and one in the former pole barn area on the western side of the Site). There was also one smaller hot spot at the northwest corner of the Site. Contaminants found in the shallow and intermediate groundwater zones exceeded protective maximum concentration levels (MCLs). Therefore, potential consumption of groundwater exceeded the EPA's range of acceptable risk for Superfund Sites. Contaminated surface soil posed risks in the unacceptable range for children to reside at the Site in the future, and for industrial workers or recreational users. Risks to wildlife were not considered ecologically significant.

Remedial Action Objectives

The Remedial Action Objectives (RAOs) developed for contaminated soil at the Site are to:

- Prevent ingestion, inhalation, or direct contact with surface soil that contain concentrations in excess of the RGs.
- Control migration and leaching of contaminants in soil to groundwater that could result in groundwater contamination in excess of MCLs or health-based levels.
- Prevent ingestion or inhalation of soil particulates in air that contain concentrations in soil in excess of the RGs.
- Permanently and/or significantly reduce the mobility/toxicity/volume (M/T/V) of characteristic hazardous waste with treatment.
- Control future releases of contaminants to ensure protection of human health and the environment.

The RAOs developed for contaminated groundwater at the Site are to:

- Prevent ingestion or direct contact with groundwater containing constituents at concentrations in excess of current federal regulatory drinking water standards (MCLs), current GEPD MCLs, total HIs greater than 1, and a cumulative excess lifetime cancer risk of greater than 1E-05.

Remedy Components

The community joined the EPA and GEPD in selecting the final remedy that was documented in the September 2009 ROD. The major components of the selected remedy included the following:

- *In situ* stabilization/solidification of contaminated soils in the source area.
- *In situ* stabilization/solidification of the top 2 feet of contaminated soils outside of the highly contaminated source area.
- Karst features, which are found to be sources of migration from the shallow to the intermediate zone, will be sealed using compression or jet grouting, if needed.
- Install a vertical barrier wall around the perimeter of the source area.
- Implement storm water improvements.
- *In situ* chemical oxidation with bioaugmentation within the contaminant plume to treat the dissolved phase contamination in the intermediate aquifer.
- Institutional controls (ICs) through a restrictive covenant to limit future land use to recreational uses only; prohibit potable groundwater use on the property; prohibit soil removal or digging within the boundary of the treated material; and
- Establish and implement a long-term monitoring program to assess the effectiveness of the RA.

Cleanup Levels

RGs applicable to the Site soil and groundwater were selected to be protective of human health in consideration of exposure risks for the future recreational users, future On-Site construction/excavation worker and future residents. The RGs selected in the ROD are included in Appendix C.

Status of Implementation

Since the ROD was signed in 2009, the EPA conducted additional investigations between 2009 and 2011 in support of the Remedial Design (RD), including collection of groundwater samples in 2010. In 2011, the Final RD Basis of Design Report was prepared to address the treatment of groundwater and contaminated soil at the Site (Black & Veatch, 2011).

In July 2015, a RA Report, Revision 1, was prepared to document implementation of the selected remedy identified in the 2009 ROD (Black & Veatch, 2015). The soil component of the remedy was designed to eliminate direct contact with contaminated media, eliminate onsite physical hazards, and significantly reduce contaminant migration to groundwater from the Site. The groundwater component was designed to contain the most contaminated shallow groundwater and treat the most contaminated intermediate aquifer contamination to levels where natural attenuation can occur. RA activities consisted of the following elements:

- Completion of additional investigation activities between 2011 and 2013 to refine and finalize the RA approach, scope, and design.
- Excavation of contaminated soils from the area east of Thomas Street; onsite consolidation of contaminated soils within containment cell footprint; backfilling excavated areas with clean soil; and installation of storm water improvements (i.e., construction of a lined storm water detention pond and Site drainage improvements).

- Installation of a low-permeability barrier wall to contain the greatest source of groundwater contamination in the shallow aquifer and confinement of additional excavated contaminated soils.
- Placement of a 10-acre composite cap over the containment cell to reduce rainwater infiltration and potential leaching of contaminants.
- Placement of three feet of clean soil as a protective cover over the composite cap and six more inches of topsoil with grass seeding.
- Ongoing monitoring of groundwater elevations to assess the integrity of the barrier wall and capping containment system.
- Ongoing treatment of high concentrations of contamination in the intermediate aquifer contaminant plume and in soil to the east of contained areas using ISCO.
- Quarterly groundwater monitoring to assess ISCO effectiveness.

It is noted that the following components of the remedy documented in the ROD were not implemented during the RA for reasons documented below.

- **Jet grouting to seal Karst features.** This feature of the remedy was initially deemed necessary as small amounts of dense non-aqueous phase liquid (DNAPL) had been observed in intermediate aquifer well MW10I. During the additional pre-RA investigation, several soil borings and wells were installed near MW10I to assess the extent of DNAPL and to identify some of these transport pathways. None of the other wells in the vicinity, installed between 2012 and 2013, accumulated DNAPL since their installation. Additionally, soils collected from the interface of the overlying soils and the Karst limestone beneath indicated that while soil contamination above the interface was elevated in localized places, the soils were not leaching those contaminants in a meaningful way to the deeper aquifer. As such, this aspect of the remedy was deemed not necessary and was not conducted.
- ***In situ* stabilization/solidification of contaminated soils and consolidation in the soil containment area.** This feature of the remedy was not conducted due to overall remedy costs. In an agreement with GEPD, the EPA eliminated the *in situ* solidification portion of the remedy given that the most heavily impacted soils would be stabilized by being placed inside of a barrier wall and cap system. This minimized the potential for leaching of contaminants from these soils to groundwater and eliminated the potential for direct exposure to the contaminated material. Mechanical solidification of the excavated and contaminated soils was deemed unnecessary due to the presence of the barrier wall and cap system. A value engineering study completed by an independent consultant determined that it was unnecessary to conduct both solidification/stabilization and capping to be effective.
- **ICs.** This remedial component was not implemented during the RA, but the EPA's legal staff is currently engaging with the City of Camilla to implement the ICs.
- **Establish and implement a long-term monitoring program to assess the effectiveness of the remedial action.** The long-term groundwater monitoring program has not yet been implemented. Installation of the necessary monitoring well network for this purpose has been completed.

Groundwater Monitoring Activities

Pressure transducers were installed in November 2015 to monitor groundwater elevations to assess the integrity of the barrier wall and capping containment system at the Site. The pressure transducer operation memorandum from August 23, 2016 through November 21, 2016, indicates that transducer data is downloaded approximately twice a month and data is evaluated and summarized in quarterly memorandums (Black & Veatch, 2016a). Pressure transducer operation is ongoing.

Sitewide groundwater sampling was conducted in March 2012, before commencing RA activities, and in November 2015, more than one year after the first ISCO injection event. Sampling results from 2015 showed persistent high concentrations of PCP and naphthalene in the intermediate aquifer. Therefore, the EPA conducted a second ISCO injection event in April 2016. Before the second injection, the EPA collected baseline groundwater samples from select ISCO monitoring wells in February 2016 to serve as a comparison for assessing success of a second ISCO injection. In December 2016, Addendum 1 to the RA Report, Revision 1, was prepared to document the second ISCO injection event (Black & Veatch, 2016b). The first three quarterly performance

groundwater sampling events were completed in July 2016, October 2016, and January 2017. Addendum 1 to the RA Report indicates that quarterly ISCO performance groundwater sampling is in progress. An analysis of the data from these events and evaluation of the effectiveness of the injection activities is anticipated to be completed at the end of the first year of post-ISCO performance monitoring and submitted in a Data Summary Report in June 2017.

It is noted that groundwater sampling to monitor the performance of the containment cell has not been conducted. A performance monitoring plan has not been prepared but is reportedly being prepared at the time of this FYR.

IC Summary Table

Due to the presence of Site-related media that cannot support UU/UE scenarios, ICs were identified as a component of the selected remedy in the 2009 ROD. The general types of ICs identified in the ROD are summarized in Table 1 below. In addition to the generally defined ICs, the ROD also identified that permanent access to the property should be granted to the EPA, GEPD, and their agents and/or representatives. To date, a formal IC Plan has not been prepared. However, in 2008 a report was prepared documenting research on state and local laws to assist in consideration of ICs at the Site (E^2 Inc., 2008). In addition, at the time that this FYR was prepared, the EPA's legal staff were engaging with the City of Camilla to implement ICs. The City's execution of a tax lien on a parcel within the Site area has resulted in an implementation delay. Some of the property parcels that may be affected by ICs are provided in Table 1.

Table 1: Summary of Planned and/or Implemented ICs

Media, engineered controls, and areas that do not support UU/UE based on current conditions	ICs Needed	ICs Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Title of IC Instrument Implemented and Date (or planned)
Site Properties	Yes	Yes	C0230-050-000 & C0220-024-000	Limit future land use to recreational/ nonresidential uses only.	Undetermined*
Treated soil	Yes	Yes	Treated material disposal areas on the Camilla Wood Treatment property (C0220-024-000 and a portion of C0230-050-000)	Prohibit soil excavation or removal that penetrates the liner system within the boundary of the capped treated material disposal areas.	Undetermined*
Soil	Yes	Yes	Camilla Wood Treatment property (C0230-050-000 & C0220-024-000)	Prohibit excavation without written approval from EPA and GEPD.	Undetermined*
Groundwater	Yes	Yes	Site Properties: C0230-050-000, C0220-024-000, C0220-103-000, C0220-104-000, C0230-058-000, & Former Auto Repair Property at 320 Thomas St. (Parcel # unavailable)	Prohibit groundwater extraction for potable use.	Undetermined*

* - Although specific IC Instruments have not been established, the types that may be appropriate for the Site were identified in the 2008 E2, Inc. report entitled "Research on State and Local Laws and Related Issues to Assist in Consideration of Institutional Controls at the Camilla Wood Preserving Company Superfund Site."

Systems Operations/Operation & Maintenance

The need for operation and maintenance (O&M) of the soil and groundwater remedy components was identified in the 2009 ROD. The Final RD Basis of Design Report identified maintenance of the surface of capped treated source area soil and groundwater performance monitoring as anticipated O&M activities. A comprehensive plan detailing all of the specified O&M activities was prepared in July 2017.

Although routine monitoring and maintenance of the cap surface has not been documented, pressure transducers are currently monitoring groundwater elevations to assess the integrity of the barrier wall and capping containment system at the Site (Black & Veatch, 2016a). Requirements for long term monitoring of these systems are included in the 2017 O&M Plan (Black & Veatch, 2017a)

In April 2016, an O&M Plan, Revision 0, was prepared for use by the EPA and the owner for the physical maintenance of the storm water detention pond and ditches located at the Site (Black & Veatch, 2016c). The plan states that post-construction care should begin immediately upon completion of the storm water detention pond and Site drainage facilities and the authorization of a Closure Certificate. The storm water detention pond and Site drainage facilities were completed in December 2014. The plan specifies that the owner will monitor, inspect, and maintain the remedial measures throughout the life of the remedy. This includes:

- Maintaining the integrity of the liner/berms, including making repairs, as necessary, to correct penetrations, subsidence, erosion, or other events.
- Maintaining the condition of storm water features and appurtenances, ensuring that conveyance ditches are clear and blockages are removed.
- Preventing run-on and runoff from eroding or otherwise damaging the constructed berms.
- Ensuring that the engineering and institutional controls are being enforced.

Storm water control structure maintenance activities, inspections, and inspection reporting requirements are detailed in the 2016 O&M Plan.

During the interviews for this FYR conducted in December 2016, it was determined that minimal maintenance activities have been conducted at the Site. City of Camilla (City) staff indicated that the City has cleared leaves clogging the pond gate. Mitchell County Parks and Recreation staff indicated that prison inmates mow around the outside of the containment cell fence and around the outside of the pond when maintaining the soccer fields. However, no records of O&M inspections or activities have been kept.

III. PROGRESS SINCE THE LAST REVIEW

This is the first FYR for the Site.

IV. FIVE-YEAR REVIEW PROCESS

Community Notification, Involvement & Site Interviews

A public notice was made available by a newspaper ad published in The *Camilla Enterprise* on 12/14/2016, stating that there was a five-year review and inviting the public to submit any comments to the EPA. The results of the review and this report will be made available at the Site information repository located at the DeSoto Trail Regional Library System, Camilla Public Library, 145 East Broad Street, Camilla, Georgia 31730.

During the FYR process, interviews were conducted in November 2016 to document any perceived problems or successes with the remedy that has been implemented to date. The results of these interviews that are relevant to remedy protectiveness are summarized below.

Six individuals closely associated with the Site, either as property owners or representatives of state (GEPD) or local government (City of Camilla and Mitchell County Parks and Recreation), were interviewed. None of the interviewees were aware of trespassing at the Site, or any complaints, violations, or incidents related to the Site. One interviewee from the City of Camilla acknowledged the positive impact on area flooding provided by the construction of the storm water pond. This interviewee indicated that since the construction of the pond, the city installed another gate in order to allow pond equalization. Interviewees from the GEPD and the City of Camilla both recognized there was no long-term O&M Plan, other than for the storm water pond at the time of interview. An interviewee with the GEPD expressed concern over the Site's long-term O&M. An interviewee from the Mitchell County Parks and Recreation Department noted that inmates typically mow around the outside of the containment cell fence and around the outside of the pond when maintaining the soccer fields, but no records are kept. There is no routine maintenance inside the fenced cell area, other than trimming vegetation around wells when the EPA contractors notify Mitchell County Parks and Recreation about upcoming sampling or monitoring. The interviewee from the City of Camilla indicated that the city provides pond maintenance and mows around the ditches. While interviewees from the City of Camilla and the Mitchell County Parks and Recreation Department were aware of informal restricted activities at the Site, they were also unaware of formal documentation ensuring follow through on long-term restrictions.

Data Review

Since completion of containment cell construction in 2013, data collection activities have included sitewide groundwater sampling, ISCO performance monitoring, and barrier wall and capping containment system water level monitoring using pressure transducers. Routine sitewide performance sampling has not been initiated.

Sitewide groundwater sampling. One sitewide groundwater sampling event (November 2015), has been conducted since completion of the soil excavation, storm water improvements, barrier wall installation, engineered cap installation, and first ISCO injection event. The samples were analyzed for semivolatile organic compounds (SVOCs), SVOCs using select ion monitoring (SIM), chlorinated herbicides (pentachlorophenol only), and total metals (select wells). Although benzene and ethylbenzene are groundwater COCs, samples were not analyzed for VOCs. Concentrations of carbazole, dibenzofuran, naphthalene, PCP, and 2-methylnaphthalene were above remedial goals in shallow groundwater monitoring wells. In intermediate groundwater monitoring wells, concentrations of carbazole, dibenzofuran, naphthalene, PCP, 2-methylnaphthalene, and manganese were above remedial goals. One exception was noted in monitoring wells outside of the ISCO treatment area, including MW14S located north of the containment cell. In November 2015, the PCP concentration (2,200 JO µg/L) in shallow well MW14S was an order of magnitude higher than concentrations measured before remedy implementation (62 µg/L in March 2012 and 890 µg/L in April 2010). Tables summarizing groundwater results are provided in Appendix D.

ISCO performance monitoring. Five quarterly sampling events were conducted after the first injection of oxidant was completed in October 2014. The samples were analyzed for SVOCs, SVOCs using SIM, chlorinated herbicides (pentachlorophenol only), and total metals (at select wells during select events). Post-ISCO performance monitoring did not include sampling for VOCs. The first round of injection reduced the mass and concentrations of PCP to lower levels, an order of magnitude or more. However, there were portions of the intermediate aquifer above the 500 µg/L target treatment level (Black & Veatch, 2016d), thus, requiring a second ISCO injection. The first three quarterly performance groundwater sampling events (July 2016, October 2016, and January 2017) have been conducted since the second injection was completed in April 2016. The samples were analyzed for SVOCs, SVOCs using SIM, and total metals (at select wells during select events). Since reporting and evaluation of the data from these events is not anticipated to be completed until June 2017, ISCO performance data collected since the second injection is not reviewed in this FYR.

Water level monitoring. Pressure transducers are currently monitoring groundwater elevations to assess the integrity of the barrier wall and capping containment system at the Site. Water level monitoring post-barrier wall and capping containment system installation has indicated that water levels are higher outside than inside of the barrier wall. This was attributed to water that is intentionally shed off the cap creating a temporary potentiometric "mound" along the outer perimeter of the cap (Black & Veatch, 2016e). Results indicated that at three monitoring locations (CAP02, MW04S, and MW08S), water elevations periodically exceeded the height of the barrier wall during the monitoring period of November 22, 2015 through November 21, 2016. The quarterly memorandum from December 2016 is included in Appendix E.

Site Inspection

The FYR inspection of the Site was conducted on 1/10/2017, by Carrie McCoy of Black & Veatch Special Projects Corp. The purpose of the inspection was to assess the protectiveness of the remedy. No changes in land use were observed. The Site inspection identified the following issues:

- Access controls
    - The gates leading to the storm water pond were open and unsecured.
    - There are a few locations where the fencing has been damaged and could be used by unauthorized personnel to access the Site. The reason for the damage could not be identified.
    - Although both of these issues permit unauthorized access to the Site, it should not affect the short-term remedy protectiveness since contaminated materials are beneath a clean cover.
- Low permeability cap
    - Extensive erosion was observed across the cap at the crest of the top slopes, particularly on the southern and eastern boundaries of the cap. In some areas, the erosion has formed gullies that are nearly two feet deep. Although the geosynthetic clay liner and drainage layer have not been breached, if erosion in these gullies is not addressed and is allowed to continue, it has the potential to expose the liner and drainage layer and affect the protectiveness of the remedy in the long-term.
    - Due to the very low slopes present around the cap, ponding of surface water was observed at the toe of the slope on all four sides of the cap. Significant rains were encountered in the days leading up to the inspection, which is likely why some of the ponding was present onsite. This ponding is not deemed to be an O&M issue, but a result of area topographical constraints. Vegetation has begun to grow in the wet areas on the south side of the cap. This ponding and vegetation should not affect protectiveness if vegetation is cleared and flow of surface water over this area is not impeded.
    - Minor areas on top of the cap exhibited ponding of water, specifically, around the installed foundations. This ponding does not currently affect remedy protectiveness. However, if areas remain wet, or foundations become eroded, minor filling and grading around the foundations would encourage the flow of water away from the foundations.
    - Small amounts of water also collected on top of the light pole foundations as a result of the presence of the concrete form tubes used to install them. This ponding does not affect remedy protectiveness unless there are cracks or gaps between tubes and foundations that may allow water to penetrate the cap. Cutting down the tubes to remove the lip would prevent the ponding of rainwater on light pole foundations.
    - Many of the fence post sleeves were missing caps, allowing sleeves to fill with rainwater. Remedy protectiveness is not affected.

- Surface water collection system (lined storm water pond)
    - Heavy buildup of silt was observed in several areas of the pond, specifically at the pump outfall, in the vicinity of the gate valve that allows water into the pond at the northeast corner, and at the pond outfall in the southwest corner. Silt buildup can prevent proper flow of water through the pond and encourage growth of vegetation. Some vegetation was observed to have taken root in the silt. The accumulation of vegetation roots could compromise the liner system and affect remedy protectiveness. Routine removal of silt and liner inspection and maintenance would facilitate remedy protectiveness.
    - The pond liner was observed to be pulled taught in the southeastern corner of the pond such that it is no longer lying flat on the side slopes. The weight of the water in the other areas of the pond appeared to be pulling the liner up from the side slope. This pulling of the liner does not affect remedy protectiveness unless the integrity of the liner is compromised.

Issues are described in detail in the Site Inspection Report is included in Appendix F.

V. TECHNICAL ASSESSMENT

QUESTION A: Is the remedy functioning as intended by the decision documents?

Question A Summary:

The remedy is mostly functioning as intended by the decision document. The remedy has met the surface soil RAOs: to prevent ingestion, inhalation, or direct contact with surface soil that contain concentrations in excess of the RGs; and to prevent ingestion or inhalation of soil particulates in air that contain concentrations in excess of the RGs. Contaminated surface soil has been excavated and consolidated in the onsite containment cell and/or covered with clean soil. No contaminated surficial soils remain onsite to complete the direct exposure pathway (Appendix G). The remedy has also met the RAOs to control migration and leaching of contaminants in soil to groundwater; and to control future releases of contaminants. These RAOs have been met by placing contaminated soil in the monitored containment area. The RAO to permanently and/or significantly reduce the M/T/V of characteristic hazardous waste with treatment has been met via ISCO of high concentration areas outside of the containment cell. The RAO to prevent ingestion or direct contact with contaminated groundwater will be met upon initiation of long-term groundwater monitoring and implementation of ICs. However, the remedy is currently protective for groundwater since currently there are no complete exposure pathways.

An evaluation of specific remedial components by area is provided below.

The onsite storm water pond. The storm water pond construction was successfully implemented, and contaminated soils were appropriately segregated and handled according to design documents. Most of the remaining soils are covered by the pond liner thereby preventing direct contact. In one area along the southeast edge of the pond, contaminated soils identified during pond grid sampling were not addressed during the remedy due to the presence of existing monitoring wells that were retained for long-term monitoring. However, this entire pond area is fenced with a locking gate thereby deterring access to contaminated areas. Some additional clean soil cover was placed in the pond area, particularly the southeast corner, to assist with surface drainage around the pond. More than one foot of surface cover was placed in the southeast corner. Therefore, this action generally meets contaminated soil RAOs in the storm water pond area. While migration and leaching of contaminants into soil and groundwater should have been significantly reduced due to the soil removal and installation of pond liner preventing water infiltration, it is uncertain whether they have been controlled. Groundwater monitoring data is lacking to the west and directly east of the pond area. The RAO for contaminated groundwater may not have been met in this area. Formal controls on groundwater use and a plan for routine verification of contaminant

concentrations in groundwater have not been established. However, in spite of the lack of monitoring and ICs, there are no current exposures to contaminated groundwater.

The storm water improvements, including the lined storm water pond in the southwestern portion of the Site, continue to operate and function as intended. During the 2016 FYR interviews, proper operation of the storm water improvements during storm events was verified. However, there was no documentation that routine pond maintenance actives are being conducted.

During the 2016 FYR interviews, one potential exception to long-term effectiveness of the storm water pond was identified. A city representative indicated that the city installed another gate valve in order to allow equalization of storm water between the original drainage pond and the pond installed during the RA. However, during remedy construction, part of the pond design was revised to no longer include such a gate valve to control outflow from the original pond. During construction, storm water was allowed to saturate the berm between the original drainage pond and the new pond, and caused a failure of the slope. During inspection of the slope materials following this failure, the soils inside this berm were identified as predominantly sands with waste materials intermixed. The failed materials were extremely soft and lacking in structural properties desirable for a pond containment berm. As a result, serious concerns were expressed about the potential risk of berm failure due to the effects of hydrostatic pressure that would be exerted on this berm by allowing the original drainage pond to fill routinely. The memorandum detailing the pond design revision is provided in Appendix H.

Soil containment area. The contaminated soil consolidation and construction of containment cell components were successfully implemented. Direct contact is prevented by a cap installed over the area. A vertical barrier wall was installed around the consolidated soils and shallow groundwater source to control shallow contaminant migration. The containment area is fenced with a locking gate thereby deterring access. This action meets soil RAOs in the soil containment area. However, the RAOs for contaminated groundwater have not been met in this area. Although contact with and migration of shallow contaminated groundwater has been addressed, formal controls on groundwater use and a plan for routine verification of contaminant concentrations in groundwater have not been established. Long-term effectiveness of the containment area is dependent on proper maintenance of remedy components.

Remediation area east of Thomas Street. A substantial portion of the contaminated soils in this area were excavated and clean cover was provided for the area. Direct contact with contaminated soils has been eliminated. Post-excavation results indicate that subsurface contamination may remain above remedial goals for groundwater protection, but not above goals for dermal contact. The majority of the exceedances were observed in excavation sidewall samples, which then drove deeper excavation until confirmation soil samples at or very close to RGs could be obtained from excavation bottoms and sidewalls, where possible. The highest PCP confirmation result is noted to the east of the excavation area in sample SW23. However further excavation of this area into off-site areas on railroad property was limited due to denial of property access rights. The area to the east is a railroad easement. The EPA attempted on multiple occasions to obtain access to this property to delineate and remediate the contaminated soils, but could not reach mutually agreeable terms with the railroad. The EPA does not have access to this property for soil delineation or remediation.

It is noted that shallow permanent monitoring wells have not been installed to monitor off-site groundwater concentrations east of the excavation area. Although some subsurface soil contamination may remain above remedial goals for groundwater protection, the substantial portion of contamination was apparently removed thereby reducing the contamination available for potential migration into groundwater. Therefore, this action substantially meets contaminated soil RAOs in the remediation area east of Thomas Street. Although the RAOs for contaminated groundwater have not yet been met in this area, active remediation of contaminated groundwater by ISCO is in progress. Formal controls on groundwater use and a plan for routine verification of contaminant concentrations in groundwater have not been established. However, in spite of the lack of monitoring and ICs, there are no current exposures to contaminated groundwater.

Athletic fields. Prior to the ROD, the western portion of the Site was returned to beneficial use. It was remediated by the EPA in 2006 and continues to function as an athletic complex that includes soccer fields and administrative offices for Mitchell County Recreation. Contaminated soils in this area were removed and consolidated in the containment area on the eastern portion of the site. A 4 oz geo-filter fabric was emplaced before the area was backfilled, graded, and topsoil added. The fields are covered in sod and are maintained, reducing the potential for direct contact. The facility is also fenced and closed off from the public when not in use for recreation. The potential for contaminant leaching from subsurface soils is unknown. However, the most highly contaminated soils were removed during the 2006 removal action. This action substantially meets contaminated soil RAOs in the athletic complex area. However, there is one exception. While migration and leaching of contaminants into soil and groundwater have been reduced, it is uncertain whether they have been controlled. Groundwater monitoring data is lacking to the west of the Site area in the possible direction of groundwater flow based on historic potentiometric surface maps. The RAOs for contaminated groundwater have not been met in this area. Formal controls on groundwater use and a plan for routine verification of contaminant concentrations in groundwater have not been established.

Former city landfill area sampled (outside of Site area). Grid surface and subsurface soil sample results presented in the ROD indicated contamination above remedial goals. The preferred remedial alternative presented in the ROD included this area within the soil containment area. However, the design revised the soil containment area to remain within the boundaries of the Site property. It was determined that these areas could not be remediated without disturbing the cover and wastes from the former landfill. The design included the possible use of excess soils from the excavation of the storm water pond to supplement the thinning soil cap on the adjacent closed city landfill. Ultimately, a soil cover was not added to the closed landfill and no remedial activities were conducted at the former landfill. The EPA and GEPD have agreed that the former landfill will be addressed as a separate site under the State's lead (Appendix G). It is noted that the area is fenced with a locking gate thereby deterring access between the Site area and the former landfill.

Other areas outside of the remediation area. Based on a review of grid sample results for areas outside of the Site, there is uncertainty whether subsurface soil contamination is present above remedial goals for protection of groundwater. Detection limits were elevated above remedial goals. This applies to the residences north of E. Bennett Street, the wooded area west of the Site, and the original drainage pond/ditch south of the Site. There is one exception for grid location 104 in the original drainage pond/ditch where concentrations of cPAH and PCP in subsurface soil were above remedial goals. Post-ROD RAs were not conducted in these areas. There is no immediate exposure pathway to contaminants in shallow groundwater, and downgradient compliance monitoring wells have been installed to monitor intermediate groundwater. Sample results indicate that there are no contaminated surficial soils in these areas, and therefore no direct contact risk.

O&M and ICs. While the remedy has been substantially functioning as intended, with the exceptions noted above, remedy protectiveness in the long-term is dependent on implementation of ICs and on proper O&M of remedy components (including COC monitoring in groundwater). Without established routine groundwater performance sampling to monitor COC concentrations in Site groundwater, it is uncertain whether the remedy is functioning as intended. A comprehensive plan for sitewide O&M has been established and annual groundwater sampling will resume in October 2017. As part of the long-term monitoring program, an O&M Plan and Quality Assurance Project Plan (QAPP) (Black & Veatch, 2017b) have been prepared. An instrument for implementing ICs and the parties responsible for implementing ICs have not been established. These components are expected to function as intended by the decision documents once implemented.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy selection still valid?

Question B Summary:

While the exposure assumptions and RAOs used at the time of remedy selection remain valid, some of the toxicity data has changed. Since remedy construction, there have been no changes in the physical conditions of the Site that affect the protectiveness of the remedy. However, some of the toxicity data used in the human health risk assessment are no longer consistent with values currently recommended by the EPA. Since the original risk assessment in 2009, the following toxicity values for some Site COCs were revised by the EPA:

- Dibenzofuran (COC in surface soil and groundwater) non-cancer oral reference dose (RfD) changed from 2.00 E^{-3} to 1.00E^{-3} milligrams per kilogram per day (mg/kg-day). In generating the RGOs for dibenzofuran, the risk assessment used a sub-chronic reference dose in the calculation for a child resident. Therefore, the cleanup level is protective (Appendix G).
- PCP (COC in surface soil and groundwater) non-cancer oral RfD changed from 3.00E^{-2} to 5.00E^{-3} mg/kg-day; cancer SFO changed from 1.20E^{-1} to 4.00E^{-1} $(mg/kg\text{-}day)^{-1}$; cancer IUR changed from 4.60E^{-6} to 5.10E^{-6} inverse micrograms per cubic meter $(\mu g/m3)^{-1}$
- 2,3,7,8-TCDD (dioxin a COC in surface soil) non-cancer oral RfD was established at 7.00E^{-10} mg/kg-day.

None of the recent toxicity factor changes would affect the retention of COCs as primary Site-related risk drivers. In addition, there are no contaminated surficial soils left onsite to complete the direct exposure pathway. Due to the lack of contaminated surficial soils present, dioxins do not need to be reevaluated (Appendix G).

At sites that have been previously investigated or cleaned up under Superfund and RCRA, the EPA Regions will consult with the EPA Headquarters and will coordinate with state partners to identify, prioritize and evaluate sites to determine if additional response action is needed. The EPA does not expect the dioxin reassessment or the changes in dibenzofuran and PCP toxicity values to affect the cleanup levels at this Site, and does not anticipate any further actions to confirm that the remedy remains protective. Additionally, the pond liner, clean soil cover, and containment cell cap are designed to prevent direct exposure to soil contaminants through ingestion and dermal contact.

QUESTION C: Has any other information come to light that could call into question the protectiveness of the remedy?

There is no other information to call into question the protectiveness of the remedy.

VI. ISSUES/RECOMMENDATIONS

Issues and Recommendations Identified in the Five-Year Review:				
OU(s): Sitewide	**Issue Category: Institutional Controls**			
	Issue: Institutional controls are not in place for the Site			
	Recommendation: Responsible party should develop and implement institutional controls. The ROD identified institutional controls to: limit future land use to recreational/ nonresidential uses only; prohibit groundwater extraction for potable use; prohibit soil excavation or removal that penetrates the liner system within the boundary of the capped treated material disposal areas; and prohibit excavation without written approval from EPA and GEPD. This includes identification of areas of the property for which each institutional control should apply.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	State	EPA/State	9/1/2018

Issues and Recommendations Identified in the Five-Year Review:				
OU(s): Sitewide	**Issue Category: Monitoring**			
	Issue: Laboratory detection limits exceed RGs			
	Recommendation: A performance monitoring work plan for long-term monitoring of COCs in groundwater has been prepared. Monitoring COCs in groundwater with detection limits set below the RGs is necessary for assessing remedy effectiveness and continued remedy protectiveness. However, as outlined in the QAPP prepared for this facility, detection limits may be elevated in samples where at least one of the COCs exceeds RGs. Where few or no COCs exceed RGs, SIM analysis for COCs with low concentration should be performed.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	State	EPA/State	9/1/2018

Issues and Recommendations Identified in the Five-Year Review:				
OU(s): Sitewide	**Issue Category: Operations and Maintenance**			
	Issue: Site upkeep needed (damage to fencing, open and unsecured gates leading to storm water pond, cap erosion, vegetation growth at toe of cap, ponding on light pole foundations, missing fence post caps, silt buildup and vegetation growth in storm water detention pond)			
	Recommendation: As outlined in the O&M Plan prepared for the Site, complete necessary upkeep activities including repair fencing, secure Site gates, routine mowing and maintenance of the vegetation on the cap, partial removal of concrete form tubes from light pole foundations, adding caps to the fence post foundations and clearing the silt and vegetation from the storm water pond.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	State	EPA/State	9/1/2018

Issues and Recommendations Identified in the Five-Year Review:				
OU(s): Sitewide	**Issue Category: Changed Site Conditions**			
	Issue: City has installed a gate valve between old drainage pond and storm water detention pond.			
	Recommendation: The stability of the berm between these two ponds has proven to be unstable in the past. If the City intends to continue using the gate valve to fill the old drainage pond during rainfall events, a stability analysis of the berm separating the old drainage pond and new storm water detention pond should be completed.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	State	EPA/State	9/1/2018

OTHER FINDINGS

The following are other findings identified during the FYR that will likely need to be addressed after the parties responsible for long-term Site O&M have been coordinated.

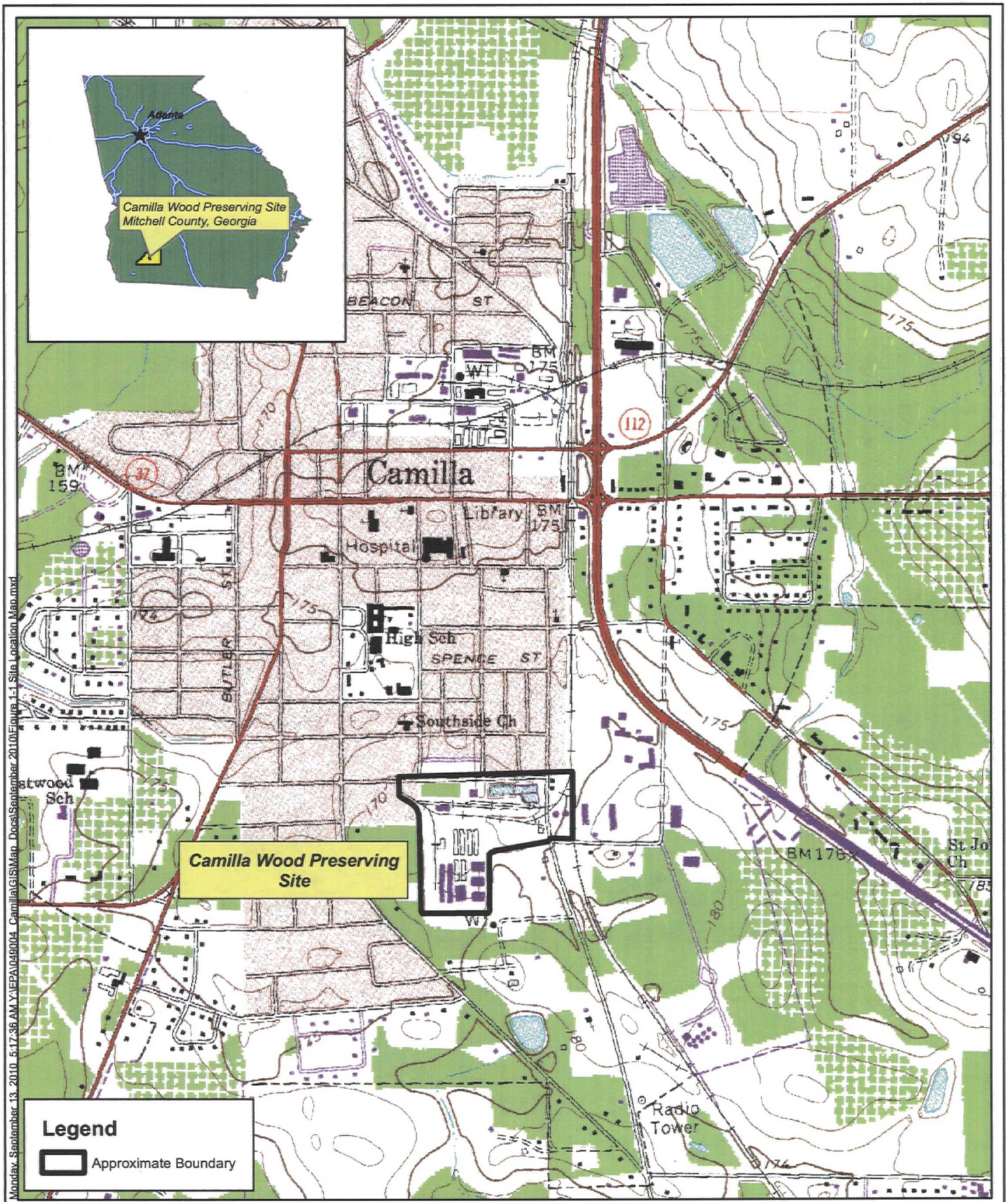
- Implementation of ICs is in progress. The EPA's legal staff are engaging with the City of Camilla to implement ICs. The City's execution of a tax lien on a parcel within the Site area has resulted in an implementation delay.

VII. PROTECTIVENESS STATEMENT

Sitewide Protectiveness Statement	
Protectiveness Determination: Protective	*Planned Addendum Completion Date:* NA
Protectiveness Statement: The soil excavation, soil containment area, and storm water control components of the remedy for the Site have been completed. Exposure pathways that could result in unacceptable risks onsite are being controlled. Exposure pathways that could result in unacceptable direct contact risks are being controlled. The groundwater treatment is ongoing. Implementation of institutional controls to maintain the protective restrictive use and activity assumptions are in progress. In addition, there are other issues that may affect long-term remedy protectiveness that should be re-evaluated after the parties responsible for long-term Site O&M have been coordinated. The remedy as implemented is short-term protective of human health and the environment because contaminated soils were excavated and capped and the groundwater is being treated and monitored annually until cleanup goals are attained. The remedy will be long-term protective with completion of the recommendations identified in Section VI. of this Review.	

VIII. NEXT REVIEW

The next five-year review report for the Site is required five years from the completion date of this review.


Atlanta
Camilla Wood Preserving Site
Mitchell County, Georgia
Camilla
Library
Hospital
High Sch
Southside Ch
BEACON ST
SPENCE ST
BUTLER ST
Camilla Wood Preserving Site
Radio Tower
Legend
Approximate Boundary
N
0 0.125 0.25 0.5
Miles
NAD83 State Plane GA West, Feet
Site Location Map
Camilla Wood Preserving Site
Mitchell County, Gerogia
Figure 1-1
Monday, September 13, 2010 5:17:36 AM Y:\EPA\049004 Camilla\GIS\Map Docs\September 2010\Figure 1-1 Site Location Map.mxd

Site Layout Map
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

Figure 1-2

APPENDIX C – ROD REMEDIAL GOALS

Table 18
Human Health Risk-Based Cleanup Goals for Surface Soil
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

Chemical of Concern	Cleanup Level (ug/kg)	Basis for Cleanup Level	Risk at Cleanup Level[1]
cPAHs	1,310	Human Health Risk-Based Level – Lifetime Recreational User	10^{-5} Excess Cancer Risk
Dibenzofuran	438,702	Human Health Risk-Based Level – Child Recreational User	HI = 1
Pentachlorophenol	46,378	Human Health Risk- Based Level – Lifetime Recreational User	10^{-5} Excess Cancer Risk
2,3,7,8-TCDD TEQ (Dioxin)	1	Residential – EPA 1998 OSWER Directive	10^{-4}

Abbreviations
EPA Environmental Protection Agency
HI hazard index
OSWER Office of Solid Waste and Emergency Response
ug/kg milligram per kilogram

Notes

[1] Cleanup levels and residual risk information presented in this table are based on the risk associated with exposure to contamination through incidental ingestion and dermal contact by the child and adult recreational user.

Table 19
Human Health Risk-Based Cleanup Goals for Subsurface Soil
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

Chemical of Concern	Cleanup Level (ug/kg)	Basis for Cleanup Level	Risk at Cleanup Level[1]
cPAHs	300	Ground Water Protection Standard	10^{-6} Excess Cancer Risk
2-Methylnaphthalene	1,034,937	Human Health Risk-Based Level – Construction/Excavation Worker	HI = 1
Pentachlorophenol	7	Ground Water Protection Standard	10^{-6} Excess Cancer Risk

Abbreviations
ug/kg milligram per kilogram
HI hazard index

Notes

[1] Cleanup levels and residual risk information presented in this table are based on the risk associated with exposure to contamination through incidental ingestion, dermal contact, and inhalation by a construction/excavation worker.

Table 20
Human Health Risk-Based Cleanup Goals for Ground Water
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

Chemical of Concern	Cleanup Level (ug/L)	Basis for Cleanup Level	Risk at Cleanup Level[1]
Benzene	5	MCL	10^{-6} Excess Cancer Risk
Ethylbenzene	700	MCL	10^{-6} Excess Cancer Risk
2,4-Dimethylphenol	313	Human Health Risk-Based Level – Child Resident	HI =1
2-Methylnapthalene	31	Human Health Risk-Based Level – Child Resident	HI =1
Acenaphtene	469	Human Health Risk-Based Level – Child Resident	HI =1
cPAHs	0.2	MCL	
Carbazole	48	Human Health Risk-Based Level – Lifetime Resident	10^{-5} Excess Cancer Risk
Dibenzofuran	31	Human Health Risk-Based Level – Child Resident	HI =1
Fluorene	313	Human Health Risk-Based Level – Child Resident	HI =1
Naphthalene	156	Human Health Risk-Based Level – Child Resident	HI =1
Pentachlorophenol	1	MCL	10^{-6} Excess Cancer Risk
Phenanthrene	469	Human Health Risk-Based Level – Child Resident	HI =1
Heptachlor Epoxide	0.2	MCL	10^{-6} Excess Cancer Risk
Arsenic	10	MCL	10^{-6} Excess Cancer Risk
Manganese	300	Lifetime Health Advisory	10^{-6} Excess Cancer Risk
Nickel	313	Human Health Risk-Based Level – Child Resident	HI =1

Abbreviations
ug/kL milligram per liter
HI hazard index
MCL maximum contaminant level

Notes

[1] Cleanup levels and residual risk information presented in this table are based on the risk associated with exposure to contamination through incidental ingestion, dermal contact, and inhalation while showering by child and adult residents.

APPENDIX D – GROUNDWATER DATA TABLES

Sample Location			AFMW01I		AFMW01I		AFMW01I		AFMW01I		AFMW02I		AFMW02I		AFMW02I		AFMW03I		AFMW03I		AFMW03I	
Sample Date			3/6/2012		3/6/2012		1/14/2015		1/14/2015		3/6/2012		2/5/2014		1/13/2015		3/6/2012		2/6/2014		1/14/2015	
Sample Identification No.			AFMW01I0312		AFMW01ID0312		AFMW-01I		AFMW-901I		AFMW02I0312		AFMW 02I		AFMW-02I		AFMW03I0312		AFMW 03I		AFMW-03I	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	5.0	U	5.0	U	0.5	U	0.5	U	5.0	U	0.5	U	0.5	U	5.0	U	10	U	0.5	U
Acenaphthene	ug/L	469	5.0	U	5.0	U	0.5	U	0.5	U	5.0	U	0.5	U	0.5	U	5.0	U	10	U	0.5	U
Benzo(a)anthracene	ug/L	--	5.0	U	5.0	U	0.05	U	0.05	U	5.0	U	0.05	U	0.05	U	5.0	U	10	U	0.05	U
Benzo(a)pyrene	ug/L	--	5.0	U	5.0	U	0.05	U	0.05	U	5.0	U	0.05	U	0.05	U	5.0	U	10	U	0.05	U
Benzo(b)fluoranthene	ug/L	--	5.0	U	5.0	U	0.1	U	0.1	U	5.0	U	0.013	J	0.1	U	5.0	U	10	U	0.1	U
Benzo(k)fluoranthene	ug/L	--	5.0	U	5.0	U	0.05	U	0.05	U	5.0	U	0.05	U	0.05	U	5.0	U	10	U	0.05	U
Chrysene	ug/L	--	5.0	U	5.0	U	0.05	U	0.05	U	5.0	U	0.015	J	0.05	U	5.0	U	10	U	0.05	U
Dibenzo(a,h)anthracene	ug/L	--	5.0	U	5.0	U	0.1	U	0.1	U	5.0	U	0.013	J	0.1	--	5.0	U	10	U	0.1	U
Indeno (1,2,3-cd) pyrene	ug/L	--	5.0	U	5.0	U	0.05	U	0.05	U	5.0	U	0.05	U	0.11	--	5.0	U	10	U	0.05	U
B(a)P TEQ	ug/L	0.2	5.55	--	5.55	--	0.08	--	0.08	--	5.55	--	0.04	--	0.14	--	5.55	--	11.11	--	0.08	--
Carbazole	ug/L	48	5.0	U	5.0	U	10	U	10	U	5.0	U	10	U	10	U	5.0	U	10	U	10	U
Dibenzofuran	ug/L	31	5.0	U	5.0	U	10	U	10	U	5.0	U	10	U	10	U	5.0	U	10	U	10	U
Fluorene	ug/L	313	5.0	U	5.0	U	0.1	U	0.1	U	5.0	U	0.035	J	0.1	U	5.0	U	10	U	0.1	U
Naphthalene	ug/L	156	5.0	U	5.0	U	0.5	U	0.5	U	5.0	U	0.5	U	0.5	U	5.0	U	10	U	0.5	U
Pentachlorophenol	ug/L	1	10	U	10	U	1	U	1	U	10	U	1	U	1	U	10	U	1	U	1.6	
Phenanthrene	ug/L	469	5.0	U	5.0	U	0.05	U	0.05	U	5.0	U	0.075		0.05	U	5.0	U	10	U	0.05	U
Metals																						
Arsenic	ug/L	10	10	U	10	U	--	--	--	--	10	U	--	--	--	--	10	U	--	--	--	--
Manganese	ug/L	300	15	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	40	U	13	J,O	--	--	--	--	40	U	--	--	--	--	40	U	--	--	--	--
Volatile Organic Compounds																						
Benzene	ug/L	5	5.0	U	5.0	U	--	--	--	--	5.0	U	--	--	--	--	5.0	U	--	--	--	--
Ethyl Benzene	ug/L	700	5.0	U	5.0	U	--	--	--	--	5.0	U	--	--	--	--	5.0	U	--	--	--	--

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

	Sample Location		AFMW04D		AFMW05I		AFMW05I		AFMW06I		AFMW06I		AFMW07I		AFMW08I		CMW01I		CMW01I		CMW01I	
	Sample Date		1/12/2015		2/6/2014		1/13/2015		2/7/2014		1/14/2015		1/14/2015		1/13/2015		3/7/2012		2/5/2014		1/13/2015	
	Sample Identification No.		AFMW-04D		AFMW 05I		AFMW-05I		AFMW06I		AFMW-06I		AFMW-07I		AFMW-08I		CMW01I10312		CMW01I		CMW-01I	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	0.5	U	0.5	U	0.5	U	0.50	U	0.5	U	0.5	U	0.5	U	0.73	J,O	0.5	U	10	U
Acenaphthene	ug/L	469	0.5	U	0.5	U	0.5	U	0.50	U	0.5	U	0.5	U	0.5	U	5.0	U,J,O	0.5	U	10	U
Benzo(a)anthracene	ug/L	--	0.05	U	0.05	U	0.05	U	0.050	U	0.05	U	0.05	U	0.05	U	5.0	U	0.019	J	10	U
Benzo(a)pyrene	ug/L	--	0.05	U	0.05	U	0.05	U	0.050	U	0.05	U	0.05	U	0.05	U	5.0	U	0.05	U	10	U
Benzo(b)fluoranthene	ug/L	--	0.1	U	0.1	U	0.1	U	0.10	U	0.1	U	0.1	U	0.1	U	5.0	U	0.37	--	10	U
Benzo(k)fluoranthene	ug/L	--	0.05	U	0.05	U	0.05	U	0.050	U	0.05	U	0.05	U	0.05	U	5.0	U	0.05	U	10	U
Chrysene	ug/L	--	0.05	U	0.05	U	0.05	U	0.050	U	0.05	U	0.05	U	0.05	U	5.0	U	0.016	J	10	U
Dibenzo(a,h)anthracene	ug/L	--	0.1	U	0.1	U	0.1	U	0.10	U	0.1	U	0.1	U	0.1	U	5.0	U	0.015	J	10	U
Indeno (1,2,3-cd) pyrene	ug/L	--	0.05	U	0.05	U	0.05	U	0.050	U	0.05	U	0.05	U	0.05	U	5.0	U	0.0093	J	10	U
B(a)P TEQ	ug/L	0.2	0.08	--	0.08	--	0.08	--	0.08	--	0.08	--	0.08	--	0.08	--	5.55	--	0.05	--	11.11	--
Carbazole	ug/L	48	10	U	10	U	10	U	10	U	10	U	10	U	10	U	5.0	U	10	U	10	U
Dibenzofuran	ug/L	31	10	U	10	U	10	U	10	U	10	U	10	U	10	U	0.88	J,O	10	U	10	U
Fluorene	ug/L	313	0.1	U	0.1	U	0.1	U	0.10	U	0.1	U	0.1	U	0.1	U	5.0	U	0.1	--	10	U
Naphthalene	ug/L	156	0.5	U	0.5	U	0.5	U	0.11	J	0.5	U	0.5	U	0.5	U	8.4	U,J,O	0.5	U	10	U
Pentachlorophenol	ug/L	1	1	U	0.54	J	1	U	1.0	U	1		1	U	1	U	190	J,O	120		98	
Phenanthrene	ug/L	469	0.05	U	0.027	J	0.05	U	0.032	J	0.05	U	0.05	U	0.05	U	5.0	U	0.05	U	10	U
Metals																						
Arsenic	ug/L	10	--	--	--	--	50	U	--	--	50	U	--	--	--	--	10	U	--	--	--	--
Manganese	ug/L	300	--	--	--	--	1.5	U	--	--	1.5	U	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	--	--	--	--	20	U	--	--	20	U	--	--	--	--	40	U	--	--	--	--
Volatile Organic Compounds																						
Benzene	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	U	--	--	--	--
Ethyl Benzene	ug/L	700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	U	--	--	--	--

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

Sample Location			CMW01S		F15MWI		LMWI-1		MASMW01I		MASMW02I		MW01I		MW01S		MW02		MW02I		MW02S	
Sample Date			3/7/2012		3/7/2012		3/7/2012		3/6/2012		3/6/2012		3/8/2012		3/6/2012		3/8/2012		3/8/2012		3/5/2012	
Sample Identification No.			CMW01S0312		F15MWI0312		LMW1I0312		MASMW01I0312		MASMW02I0312		MW01I0312		MW01S0312		MW02O312		MW02I0312		MW02S0312	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	37	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	14	--	5.0	U
Acenaphthene	ug/L	469	57	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	61	--	5.0	U
Benzo(a)anthracene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.59	J,O	5.0	U	5.0	U
Benzo(b)fluoranthene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.50	J,O	5.0	U	5.0	U
Benzo(k)fluoranthene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	ug/L	--	0.64	J,O	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.53	J,O	5.0	U	5.0	U
B(a)P TEQ	ug/L	0.2	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	3.43	--	5.55	--	5.55	--
Carbazole	ug/L	48	65	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	8.4	--	5.0	U
Dibenzofuran	ug/L	31	26	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	29	--	5.0	U
Fluorene	ug/L	313	22	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	23	--	5.0	U
Naphthalene	ug/L	156	550	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	120	--	5.0	U
Pentachlorophenol	ug/L	1	64	J,O	10	U,J,O	10	U,J,O	10	U	10	U	10	U,J,O	10	U	10	U	10	U,J,O	10	U,J,O
Phenanthrene	ug/L	469	6.8		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	12		5.0	U
Metals																						
Arsenic	ug/L	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Manganese	ug/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	40	U	40	U	40	U	100	--	71	--	40	U	40	U	40	U	40	U	40	U
Volatile Organic Compounds																						
Benzene	ug/L	5	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethyl Benzene	ug/L	700	4.9	J,O	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

	Sample Location		MW03A		MW03B		MW03I		MW03S		MW04A		MW04S		MW05I		MW06I		MW06S		MW07I	
	Sample Date		3/9/2012		3/9/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012	
	Sample Identification No.		MW03A0312		MW03B0312		MW03I0312		MW03S0312		MW04A0312		MW04S0312		MW05I0312		MW06I0312		MW06S0312		MW07I0312	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	5.0	U	5.0	U	5.0	U	2.4	J,O	18	--	2.1	J,O	5.0	U	5.0	U	73	--	5.0	U
Acenaphthene	ug/L	469	3.8	J,O	5.0	U	0.71	J,O	35	--	16	--	3.6	J,O	5.0	U	5.0	U	69	--	5.0	U
Benzo(a)anthracene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
B(a)P TEQ	ug/L	0.2	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--
Carbazole	ug/L	48	5.0	U	5.0	U	5.0	U	12	--	0.56	J,O	2.0	J,O	5.0	U	5.0	U	67	--	5.0	U
Dibenzofuran	ug/L	31	1.7	J,O	5.0	U	5.0	U	20	--	11	--	1.6	J,O	5.0	U	5.0	U	50	--	5.0	U
Fluorene	ug/L	313	1.8	J,O	5.0	U	5.0	U	27	--	7.2	--	1.8	J,O	5.0	U	5.0	U	54	--	5.0	U
Naphthalene	ug/L	156	5.0	U	5.0	U	5.0	U	210	--	120	--	17	--	5.0	U	5.0	U	490	--	5.0	U
Pentachlorophenol	ug/L	1	10	U	10	U	10	U	10	U,J,O	10	U	22	J,O	6.6	J,O	10	U	18	J,O	10	U,J,O
Phenanthrene	ug/L	469	6.6		5.0	U	5.0	U	5.0	U	7.2		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Metals																						
Arsenic	ug/L	10	10	U	22	U,O	10	U	10	U	11	U,O	10	U	10	U	10	U	10	U	10	U
Manganese	ug/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	U	--	--	--	--
Nickel	ug/L	313	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U
Volatile Organic Compounds																						
Benzene	ug/L	5	5.0	U	5.0	U	5.0	U	1.9	J,O	4.1	J,O	2.0	J,O	5.0	U	5.0	U	1.9	J,O	5.0	U
Ethyl Benzene	ug/L	700	5.0	U	5.0	U	5.0	U	1.5	J,O	5.0	U	5.0	U	5.0	U	5.0	U	16	--	5.0	U

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

Sample Location			MW08S		MW09I		MW10I		MW11I		MW11I		MW11I		MW11I		MW11S		MW12S		MW13S	
Sample Date			3/6/2012		3/8/2012		3/9/2012		3/8/2012		3/8/2012		2/9/2014		1/12/2015		3/6/2012		3/6/2012		3/7/2012	
Sample Identification No.			MW08S0312		MW09I0312		MW10I0312		MW11I0312		MW11ID0312		MW-11I		MW-11I		MW11S0312		MW12S0312		MW13S0312	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	77	--	5.0	U	540	--	100	--	64	--	270	--	230	--	150	J,O	53	--	110	J,O
Acenaphthene	ug/L	469	93	--	5.0	U	390	--	33	--	17	--	64	--	45	--	70	--	39	--	120	J,O
Benzo(a)anthracene	ug/L	--	5.0	U	5.0	U	50	U	5.0	U	5.0	U	0.05	U	10	U	0.60	J,O	5.0	U	1.1	J,O
Benzo(a)pyrene	ug/L	--	5.0	U	5.0	U	50	U	5.0	U	5.0	U	0.05	U	10	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	ug/L	--	5.0	U	5.0	U	50	U	5.0	U	5.0	U	0.1	U	10	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	ug/L	--	5.0	U	5.0	U	50	U	5.0	U	5.0	U	0.05	U	10	U	5.0	U	5.0	U	5.0	U
Chrysene	ug/L	--	5.0	U	5.0	U	50	U	5.0	U	5.0	U	0.05	U	10	U	0.63	J,O	5.0	U	1.1	J,O
Dibenzo(a,h)anthracene	ug/L	--	5.0	U	5.0	U	50	U	5.0	U	5.0	U	0.1	U	10	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	ug/L	--	5.0	U	5.0	U	50	U	5.0	U	5.0	U	0.05	U	10	U	5.0	U	5.0	U	5.0	U
B(a)P TEQ	ug/L	0.2	5.55	--	5.55	--	55.53	--	5.55	--	5.55	--	0.08	--	11.11	--	5.36	--	5.55	--	5.41	--
Carbazole	ug/L	48	11	--	5.0	U	180	--	110	J,O	51	--	100	--	120	--	64	--	9.1	--	48	--
Dibenzofuran	ug/L	31	55	--	5.0	U	210	--	33	--	16	--	51	--	58	--	51	--	23	--	99	J,O
Fluorene	ug/L	313	62	--	5.0	U	190	--	20	--	10	--	40	--	26	--	58	--	26	--	100	J,O
Naphthalene	ug/L	156	240	--	5.0	U	3000	--	570	--	630	--	1200	--	1000	--	660	--	96	J,O	560	--
Pentachlorophenol	ug/L	1	7.0	J,O	10	U	690		520	J,O	390	J,O	240		4900		1400		3000	J,O	2100	J,O
Phenanthrene	ug/L	469	65		5.0	U	170		34		5.0	U	76		55		73		16		140	J,O
Metals																						
Arsenic	ug/L	10	10	U	10	U	10	U	10	U	10	U	--	--	--	--	10	U	10	U	10	U
Manganese	ug/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	23	J,O	40	U	40	U	11	J,O	40	U	--	--	--	--	40	U	40	U	40	U
Volatile Organic Compounds																						
Benzene	ug/L	5	5.0	U	5.0	U	11	--	1.9	J,O	1.6	J,O	--	--	--	--	2.0	J,O	5.0	U	1.0	J,O
Ethyl Benzene	ug/L	700	2.1	J,O	5.0	U	19	--	20	--	13	--	--	--	--	--	6.0	--	1.2	J,O	5.2	--

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

Sample Location			MW14S		MW16I		MW17I		MW18I		MW18I		MW18I		MW18I		MW19I		MW19I		MW20I	
Sample Date			3/7/2012		3/9/2012		3/8/2012		3/7/2012		2/7/2014		1/15/2015		1/15/2015		3/6/2012		2/7/2014		3/7/2012	
Sample Identification No.			MW14S0312		MW16I0312		MW17I0312		MW18I0312		MW18I		MW-18I		MW-918I		MW19I0312		MW19I		MW20I0312	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	5.0	U	5.0	U	5.0	U	5.0	U	0.074	J	10	U	10	U	5.0	U	0.50	U	5.0	U
Acenaphthene	ug/L	469	5.0	U	21	--	10	--	5.0	U	0.50	U	10	U	10	U	5.0	U	0.50	U	5.0	U
Benzo(a)anthracene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	0.050	U	10	U	10	U	5.0	U	0.050	U	5.0	U
Benzo(a)pyrene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	0.050	U	10	U	10	U	5.0	U	0.050	U	5.0	U
Benzo(b)fluoranthene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	0.10	U	10	U	10	U	5.0	U	0.10	U	5.0	U
Benzo(k)fluoranthene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	0.050	U	10	U	10	U	5.0	U	0.050	U	5.0	U
Chrysene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	0.050	U	10	U	10	U	5.0	U	0.050	U	5.0	U
Dibenzo(a,h)anthracene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	0.10	U	10	U	10	U	5.0	U	0.10	U	5.0	U
Indeno (1,2,3-cd) pyrene	ug/L	--	5.0	U	5.0	U	5.0	U	5.0	U	0.050	U	10	U	10	U	5.0	U	0.050	U	5.0	U
B(a)P TEQ	ug/L	0.2	5.55	--	5.55	--	5.55	--	5.55	--	0.08	--	11.11	--	11.11	--	5.55	--	0.08	--	5.55	--
Carbazole	ug/L	48	5.0	U	5.0	U	12	--	2.6	J,O	10	U	10	U	10	U	5.0	U	10	U	5.0	U
Dibenzofuran	ug/L	31	5.0	U	13	--	15	--	17	--	12	--	11	--	12	--	5.0	U	10	U	5.0	U
Fluorene	ug/L	313	5.0	U	9.6	--	6.8	--	18	--	12	--	10	U	10	U	5.0	U	0.10	U	5.0	U
Naphthalene	ug/L	156	1.2	J,O	5.0	U	20	--	5.0	U	0.27	J	10	U	10	U	5.0	U	0.50	U	0.99	J,O
Pentachlorophenol	ug/L	1	62		10	U	1.6	J,O	960	J,O	1000		930		1000		10	U	1.0	U	10	U
Phenanthrene	ug/L	469	5.0	U	3.9	J,O	11		18		17		10	U	10		5.0	U	0.050	U	5.0	U
Metals																						
Arsenic	ug/L	10	10	U	10	U	10	U	10	U	--	--	--	--	--	--	10	U	--	--	10	U
Manganese	ug/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	11	J,O	40	U	40	U	13	J,O	--	--	--	--	--	--	40	U	--	--	22	J,O
Volatile Organic Compounds																						
Benzene	ug/L	5	5.0	U	7.8	--	5.0	U	5.0	U	--	--	--	--	--	--	5.0	U	--	--	5.0	U
Ethyl Benzene	ug/L	700	5.0	U	1.2	J,O	1.0	J,O	5.0	U	--	--	--	--	--	--	5.0	U	--	--	5.0	U

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

Sample Location			MW21I		MW22S		MW23I		MW26A		MW26A		MW26B		MW26B		MW26C		MW26C		MW26D	
Sample Date			3/7/2012		3/8/2012		3/8/2012		2/8/2014		1/15/2015		2/8/2014		1/15/2015		2/8/2014		1/15/2015		2/8/2014	
Sample Identification No.			MW21I0312		MW22S0312		MW23I0312		MW26A		MW-26A		MW26B		MW-26B		MW26C		MW-26C		MW26D	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	5.0	U	510	--	5.0	U	270	--	180	--	330	--	200	--	280	--	140	--	95	--
Acenaphthene	ug/L	469	5.0	U	320	--	5.0	U	110	--	69	--	89	--	57	--	37	--	10	U	0.31	J
Benzo(a)anthracene	ug/L	--	5.0	U	50	U	5.0	U	0.05	U	10	U	0.03	J	10	U	0.05	U	10	U	0.05	U
Benzo(a)pyrene	ug/L	--	5.0	U	50	U	5.0	U	0.05	U	10	U	0.05	U	10	U	0.05	U	10	U	0.05	U
Benzo(b)fluoranthene	ug/L	--	5.0	U	50	U	5.0	U	0.1	U	10	U	0.1	U	10	U	0.1	U	10	U	0.1	U
Benzo(k)fluoranthene	ug/L	--	5.0	U	50	U	5.0	U	0.05	U	10	U	0.05	U	10	U	0.05	U	10	U	0.05	U
Chrysene	ug/L	--	5.0	U	50	U	5.0	U	0.05	U	10	U	0.029	J	10	U	0.05	U	10	U	0.05	U
Dibenzo(a,h)anthracene	ug/L	--	5.0	U	50	U	5.0	U	0.1	U	10	U	0.1	U	10	U	0.1	U	10	U	0.1	U
Indeno (1,2,3-cd) pyrene	ug/L	--	5.0	U	50	U	5.0	U	0.05	U	10	U	0.05	U	10	U	0.05	U	10	U	0.05	U
B(a)P TEQ	ug/L	0.2	5.55	--	55.53	--	5.55	--	0.08	--	11.11	--	0.08	--	11.11	--	0.08	--	11.11	--	0.08	--
Carbazole	ug/L	48	5.0	U	390	--	5.0	U	58	--	96	--	62	--	120	--	42	--	73	--	66	--
Dibenzofuran	ug/L	31	5.0	U	220	--	5.0	U	58	--	55	--	60	--	60	--	61	--	42	--	25	--
Fluorene	ug/L	313	5.0	U	160	--	5.0	U	74	--	53	--	60	--	35	--	26	--	10	U	0.32	--
Naphthalene	ug/L	156	5.0	U	5900	--	5.0	U	1200	--	670	--	1200	--	910	--	1300	--	650	--	490	--
Pentachlorophenol	ug/L	1	10	U,J,O	100	U	10	U	680		670		860		580		6700		3700		34000	
Phenanthrene	ug/L	469	5.0	U	170		5.0	U	81		62		110		64		75		26		8.8	
Metals																						
Arsenic	ug/L	10	10	U	10	U	10	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	ug/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	40	U	40	U	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																						
Benzene	ug/L	5	5.0	U	310	--	5.0	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl Benzene	ug/L	700	5.0	U	130	--	5.0	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

Sample Location			MW26D		MW29I		MW30D		MW30D		MW31I		MW31I		MW32D		MW33D		MW33D		MW33D	
Sample Date			1/14/2015		2/9/2014		2/8/2014		1/14/2015		2/5/2014		1/13/2015		2/9/2014		2/7/2014		2/7/2014		1/12/2015	
Sample Identification No.			MW-26D		MW29I		MW30D		MW-30D		MW31I		MW-31I		MW32D		MW33D		MW933D		MW-33D	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	10	U	0.06	J	0.032	J	12	--	4.6	--	10	U	3.8	--	0.50	U	0.018	J	10	U
Acenaphthene	ug/L	469	10	U	0.97	--	0.18	J	13	--	0.5	U	10	U	6.5	--	0.075	J	0.067	J	10	U
Benzo(a)anthracene	ug/L	--	10	U	0.02	J	0.05	U	10	U	0.18	--	10	U	0.079	--	0.050	U	0.050	U	10	U
Benzo(a)pyrene	ug/L	--	10	U	0.05	U	0.05	U	10	U	0.18	--	10	U	0.05	U	0.050	U	0.050	U	10	U
Benzo(b)fluoranthene	ug/L	--	10	U	0.1	U	0.1	U	10	U	0.24	--	10	U	0.1	U	0.10	U	0.10	U	10	U
Benzo(k)fluoranthene	ug/L	--	10	U	0.05	U	0.05	U	10	U	0.094	--	10	U	0.05	U	0.050	U	0.050	U	10	U
Chrysene	ug/L	--	10	U	0.015	J	0.05	U	10	U	0.14	--	10	U	0.054	--	0.050	U	0.050	U	10	U
Dibenzo(a,h)anthracene	ug/L	--	10	U	0.1	U	0.1	U	10	U	0.02	J	10	U	0.1	U	0.10	U	0.10	U	10	U
Indeno (1,2,3-cd) pyrene	ug/L	--	10	U	0.05	U	0.05	U	10	U	0.053	--	10	U	0.05	U	0.050	U	0.050	U	10	U
B(a)P TEQ	ug/L	0.2	11.11	--	0.08	--	0.08	--	11.11	--	0.23	--	11.11	--	0.09	--	0.08	--	0.08	--	11.11	--
Carbazole	ug/L	48	10	U	10	U	10	U	16	--	24	--	10	U	10	U	10	U	10	U	10	U
Dibenzofuran	ug/L	31	10	U	10	U	10	U	10	U	13	--	10	U	3.6	J	10	U	10	U	10	U
Fluorene	ug/L	313	10	U	0.33	--	0.085	J	10	U	23	--	10	U	6.5	--	0.074	J	0.070	J	10	U
Naphthalene	ug/L	156	10	U	0.26	J	0.5	U	35	--	35	--	10	U	2.8	--	0.032	J	0.50	U	10	U
Pentachlorophenol	ug/L	1	10	U	1.5	J	14		240		180		1	U	1	U	6.9		5.8		1	U
Phenanthrene	ug/L	469	10	U	0.28		0.066		10	U	18		10	U	13		0.23		0.20		10	U
Metals																						
Arsenic	ug/L	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	ug/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																						
Benzene	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl Benzene	ug/L	700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

Sample Location			MW34D		MW35D		MW36D		MW37		MW38A		MW38B		MW39A		MW39B		MW40		MW41	
Sample Date			2/7/2014		1/14/2015		1/13/2015		1/13/2015		1/13/2015		1/13/2015		1/14/2015		1/14/2015		1/14/2015		1/14/2015	
Sample Identification No.			MW34D		MW-35D		MW-36D		MW-37		MW-38A		MW-38B		MW-39A		MW-39B		MW-40		MW-41	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	31	0.50	U	49	--	10	U	10	U	79	--	260	--	150	--	10	U	100	U	10	U
Acenaphthene	ug/L	469	0.50	U	10	U	10	U	10	U	14	--	67	--	38	--	10	U	100	U	10	U
Benzo(a)anthracene	ug/L	--	0.050	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	100	U	10	U
Benzo(a)pyrene	ug/L	--	0.050	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	100	U	10	U
Benzo(b)fluoranthene	ug/L	--	0.10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	100	U	10	U
Benzo(k)fluoranthene	ug/L	--	0.050	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	100	U	10	U
Chrysene	ug/L	--	0.050	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	100	U	10	U
Dibenzo(a,h)anthracene	ug/L	--	0.10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	100	U	10	U
Indeno (1,2,3-cd) pyrene	ug/L	--	0.050	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	100	U	10	U
B(a)P TEQ	ug/L	0.2	0.08	--	11.11	--	11.11	--	11.11	--	11.11	--	11.11	--	11.11	--	11.11	--	111.05	--	11.11	--
Carbazole	ug/L	48	10	U	10	U	10	U	10	U	57	--	150	--	10	U	10	U	100	U	10	U
Dibenzofuran	ug/L	31	10	U	19	--	10	U	10	U	34	--	59	--	42	--	10	U	100	U	10	U
Fluorene	ug/L	313	0.030	J	10	U	10	U	10	U	28	--	42	--	28	--	10	U	100	U	10	U
Naphthalene	ug/L	156	0.018	J	320	--	10	U	10	U	660	--	1300	--	590	--	10	U	100	U	10	U
Pentachlorophenol	ug/L	1	1.0	U	1400		1	U	1	U	44		7300		4000	J	1	U	10	U	68	
Phenanthrene	ug/L	469	0.094		10	U	10	U	10	U	27		57		46		10	U	100	U	10	U
Metals																						
Arsenic	ug/L	10	--	--	--	--	--	--	50	U	--	--	--	--	--	--	--	--	50	U	--	--
Manganese	ug/L	300	--	--	--	--	--	--	1480	--	--	--	--	--	--	--	--	--	1430000	--	--	--
Nickel	ug/L	313	--	--	--	--	--	--	20	U	--	--	--	--	--	--	--	--	21.1	--	--	--
Volatile Organic Compounds																						
Benzene	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl Benzene	ug/L	700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

	Sample Location		MWPBWI		PMW01I		PMW01I		SMW01I		SMW01I		SMW02I		SMW03I		TMW01I		TMW02I	
	Sample Date		3/5/2012		3/6/2012		2/7/2014		3/7/2012		3/7/2012		3/7/2012		3/7/2012		3/7/2012		3/6/2012	
	Sample Identification No.		MWPBWI0312		PMW01I0312		PMW01I		SMW01I0312		SMW01ID0312		SMW02I0312		SMW03I0312		TMW01I0312		TMW02I0312	
Chemical Name	**Units**	**Remedial Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi-volatile Organic Compounds																				
2-Methylnaphthalene	ug/L	31	5.0	U	5.0	U	0.61	--	44	--	46	--	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthene	ug/L	469	5.0	U	5.0	U	0.50	U	45	--	49	--	61	--	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	ug/L	--	5.0	U	5.0	U	0.050	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	ug/L	--	5.0	U	5.0	U	0.050	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	ug/L	--	5.0	U	5.0	U	0.10	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	ug/L	--	5.0	U	5.0	U	0.050	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	ug/L	--	5.0	U	5.0	U	0.050	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	ug/L	--	5.0	U	5.0	U	0.020	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	ug/L	--	5.0	U	5.0	U	0.023	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
B(a)P TEQ	ug/L	0.2	5.55	--	5.55	--	0.05	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--	5.55	--
Carbazole	ug/L	48	5.0	U	5.0	U	10	U	17	--	21	--	51	--	5.0	U	5.0	U	5.0	U
Dibenzofuran	ug/L	31	5.0	U	5.0	U	10	U	70	--	76	--	56	--	5.0	U	5.0	U	5.0	U
Fluorene	ug/L	313	5.0	U	5.0	U	0.048	J	53	--	59	--	45	--	5.0	U	5.0	U	5.0	U
Naphthalene	ug/L	156	5.0	U	5.0	U	5.8	--	320	--	290	--	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	ug/L	1	10	U	720		320		6.8	J,O	8.7	J,O	10	U,J,O	10	U,J,O	10	U,J,O	10	U
Phenanthrene	ug/L	469	5.0	U	5.0	U	0.12		53		63		36		5.0	U	5.0	U	5.0	U
Metals																				
Arsenic	ug/L	10	10	U	10	U	--	--	10	U	10	U	10	U	10	U	10	U	10	U
Manganese	ug/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	313	40	U	40	J,O	--	--	21	J,O	24	J,O	40	U	260	--	30	J,O	40	U
Volatile Organic Compounds																				
Benzene	ug/L	5	5.0	U	5.0	U	--	--	5.0	U	5.0	U	12	--	5.0	U	5.0	U	5.0	U
Ethyl Benzene	ug/L	700	5.0	U	5.0	U	--	--	5.0	U	5.0	U	7.7	--	5.0	U	5.0	U	5.0	U

Notes:

Remedial goal exceedance

Sample depth given is feet below ground surface

-- Not sampled or no value

B(a)P - Benzo(a)pyrene

B(a)P TEQ value shown is World Health Organisation Toxic Equivalence Factors for PAHs as per NEPM Schedule B1, Table 1A

J - Estimated value

TEQ - toxicity equivalence quotient

U - Compound analyzed for but not detected

ug/L - micrograms per liter

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	CMW01S				MW01S					
	(ppb)	4/21/1998	2/24/2003	2/10/2009	4/11/2010	4/21/1998	2/24/2003	2/24/2003	2/7/2009	2/7/2009	4/7/2010
Semi Volatile Organic Compounds											
2,4-Dimethylphenol	313	10 U	50 U	5 U	5 U,J	10 U	10 U	10 U	5 U	5 U	5 U
2-Methylnaphthalene	31	170 J	73 J	41	20	10 U	10 U	10 U	.1 U	.066 J	5 U
Carbazole	48	150 J	99 J	47	44	10 U	10 UJ	10 UJ	5 U	5 U	5 U
Dibenzofuran	31	110 J	120 J	81	69	10 U	10 U	10 U	5 U	5 U	5 U
Naphthalene	156	1100 J	350 J	350	41	10 UJ	10 U	10 U	.092 J	.44	5 U
Pentachlorophenol	1	4300 J	17 J	24 J	14 J	25 U	25 UJ	25 UJ	.091 J	.08 J	10 U
Phenanthrene	469	120 J	380 J	71	72	10 U	10 U	10 U	.1 U	.12	5 U
Total SVOCs[1]	NA	**6,383**	**2,707**	**884**	**484**	**ND**	**380**	**58**	**0.28**	**0.89**	**ND**
cPAH Compounds[2]											
Benzo(a)anthracene		10 U	23 J	.9 J	5 U	10 U	10 U	10 U	.1 U	.1 U	5 U
Benzo(a)pyrene		10 U	8 J	.14 J	5 U	10 U	10 U	10 U	.1 U	.1 U	5 U
Benzo(b)fluoranthene		10 U	10 J	.15 J	5 U	10 U	10 U	10 U	.1 UJ	.1 U	5 U
Benzo(k)fluoranthene	NA	10 U	9 J	.14 J	5 U	10 U	10 U	10 U	.1 U	.1 U	5 U
Chrysene		10 U	26 J	1.3 J	5 U	10 U	10 U	10 U	.1 U	.1 U	5 U
Dibenzo(a,h)anthracene		10 U	50 UJ	.1 U	5 U	10 U	10 U	10 U	.1 UJ	.1 U	5 U
Indeno(1,2,3-cd)pyrene		10 U	50 UJ	.1 U	5 U	10 U	10 U	10 U	.1 U	.1 U	5 U
B(a)P Equivalent[3]	0.20	**11.6**	**52.4**	**1.0**	**5.8**	**11.6**	**11.6**	**11.6**	**0.12**	**0.12**	**5.8**
Volatile Organic Compounds											
Benzene	5	20 U	NS	5 U	5 U	1 U	NS	NS	5 U	5 U	5 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW02S			MW03S		
	(ppb)	4/21/1998	2/7/2009	4/7/2010	4/21/1998	2/10/2009	4/11/2010
Semi Volatile Organic Compounds							
2,4-Dimethylphenol	**313**	10 U	5 U	5 U	12	5 U	5 U,J
2-Methylnaphthalene	**31**	10 U	1 U	5 U	82 J	16	8.10
Carbazole	**48**	10 U	5 U	5 U	39	28	24
Dibenzofuran	**31**	10 U	5 U	5 U	43	43	24
Naphthalene	**156**	10 UJ	.17	5 U	880 J	1000	390
Pentachlorophenol	**1**	25 U	.085 J	10 U	20 J	3.6 J	10 U,J
Phenanthrene	**469**	10 U	.1 U	5 U	50	44	23
Total SVOCs[1]	**NA**	**ND**	**1.03**	**ND**	**1,301**	**1,296**	**561**
cPAH Compounds[2]							
Benzo(a)anthracene		10 U	.1 U	5 U	10 U	.44	5 U
Benzo(a)pyrene		10 U	.1 U	5 U	10 U	.1 U	5 U
Benzo(b)fluoranthene		10 U	.1 UJ	5 U	10 U	.1 U	5 U
Benzo(k)fluoranthene	**NA**	10 U	.1 U	5 U	10 U	.1 U	5 U
Chrysene		10 U	.1 U	5 U	10 U	38	5 U
Dibenzo(a,h)anthracene		10 U	.1 UJ	5 U	10 U	.1 UJ	5 U
Indeno(1,2,3-cd)pyrene		10 U	.1 U	5 U	10 U	.1 U	5 U
B(a)P Equivalent[3]	**0.20**	**11.6**	**0.12**	**5.8**	**11.6**	**0.51**	**5.8**
Volatile Organic Compounds							
Benzene	**5**	1 U	5 U	5 U	20 U	3.4 J	2.60 J

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW04S							MW05S
	(ppb)	4/22/1998	10/31/2002	10/31/2002	2/24/2003	2/27/2003	2/9/2009	4/8/2010	4/22/1998
Semi Volatile Organic Compounds									
2,4-Dimethylphenol	313	200 U	10 UR	10 UR	10 U	100 UJ	5 U	5 U	140 J
2-Methylnaphthalene	31	110 J	10 U	10 U	10 U	100 UJ	18	25	240 J
Carbazole	48	48 J	1 J	10 U	10 UJ	100 UJ	6.4	7	750 J
Dibenzofuran	31	49 J	10 U	10 U	10 U	100 UJ	8.5	12	190 J
Naphthalene	156	390 J	10 U	10 U	10 U	33 J	58	77	3700 J
Pentachlorophenol	1	2600	25 U	25 U	160 J	600 J	300 J	320	220 J
Phenanthrene	469	71 J	10 U	10 U	10 U	100 UJ	6.6	12	200 J
Total SVOCs[1]	NA	**3,391**	**101**	**6**	**207**	**658**	**454.6**	**539**	**7,754**
cPAH Compounds[2]									
Benzo(a)anthracene		200 U	10 U	10 U	10 U	100 UJ	.1 U	5 U	10 U
Benzo(a)pyrene		200 U	10 U	10 U	10 U	100 UJ	.1 U	5 U	10 U
Benzo(b)fluoranthene		200 U	10 U	10 U	10 U	100 UJ	.1 U	5 U	10 U
Benzo(k)fluoranthene	NA	200 U	10 U	10 U	10 U	100 UJ	.1 U	5 U	10 U
Chrysene		200 U	10 U	10 U	10 U	100 UJ	.1 U	5 U	10 U
Dibenzo(a,h)anthracene		200 U	10 U	10 U	10 U	100 UJ	.1 U	5 U	10 U
Indeno(1,2,3-cd)pyrene		200 U	10 U	10 U	10 U	100 UJ	.1 U	5 U	10 U
B(a)P Equivalent[3]	0.20	**231.1**	**11.6**	**11.6**	**11.6**	**115.6**	**0.12**	**5.8**	**11.6**
Volatile Organic Compounds									
Benzene	5	10 U	NS	NS	NS	NS	5 U	5 U	80 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW06S						MW07S
	(ppb)	4/21/1998	4/22/1998	10/31/2002	10/31/2002	2/9/2009	4/8/2010	
Semi Volatile Organic Compounds								
2,4-Dimethylphenol	313	NS	2 J	50 UR	10 UR	4.3 J	4 J	NS
2-Methylnaphthalene	31	NS	210	38 J	47	50	79	NS
Carbazole	48	NS	120 J	60	67	81	84	NS
Dibenzofuran	31	NS	120	56	59	58	77	NS
Naphthalene	156	NS	600 J	340	300	450	650	NS
Pentachlorophenol	1	NS	140 J	130 U	7 J	38 J	16	NS
Phenanthrene	469	NS	160	95	62 J	38	93	NS
Total SVOCs[1]	NA	**NS**	**1,853**	**1,205**	**1,490**	**1,082**	**1,366**	**NS**
cPAH Compounds[2]								
Benzo(a)anthracene		NS	10 U	50 U	10 U	.15 J	5 U	NS
Benzo(a)pyrene		NS	10 U	50 U	10 U	.1 U	5 U	NS
Benzo(b)fluoranthene		NS	10 U	50 U	10 U	.1 UJ	5 U	NS
Benzo(k)fluoranthene	NA	NS	10 U	50 U	10 U	.1 U	5 U	NS
Chrysene		NS	10 U	50 U	10 U	.18 J	5 U	NS
Dibenzo(a,h)anthracene		NS	10 U	50 U	10 U	.1 UJ	5 U	NS
Indeno(1,2,3-cd)pyrene		NS	10 U	50 U	10 U	.1 U	5 U	NS
B(a)P Equivalent[3]	0.20	**NS**	**11.6**	**57.8**	**11.6**	**0.22**	**5.8**	**NS**
Volatile Organic Compounds								
Benzene	5	10 U	NS	NS	NS	5 U	5 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate

R - The data are rejected and considered unusable

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW08S						MW11S	MW12S	MW13S	MW14S
	(ppb)	4/21/1998	10/31/2002	10/31/2002	2/24/2003	2/8/2009	4/9/2010	4/19/2010	4/19/2010	4/19/2010	4/28/2010
Semi Volatile Organic Compounds											
2,4-Dimethylphenol	313	120	49 J	44 J	69	16	5.20	53 U,J	5 U,J	3.80 J	5 U
2-Methylnaphthalene	31	470	50 U	50 U	14 J	210	5 U	220 J	84 J	110 J	5 U
Carbazole	48	250 J	50 U	50 U	50 UJ	41	5 U	68 J	17 J	79 J	5 U
Dibenzofuran	31	200	50 U	50 U	15 J	71	5 U	77 J	38 J	81 J	5 U
Naphthalene	156	3700 J	110	50 U	400 J	1300	6.70	560 J	130 J	950 J	5 U,J
Pentachlorophenol	1	60 J	130 U	130 U	37 J	13 J	3.20 J	2200 J	3400 J	3000 J	890
Phenanthrene	469	150	50 U	50 U	50 UJ	51	5 U	110 J	56 J	120 J	5 U
Total SVOCs[1]	NA	**5,836**	**790**	**436**	**1,400**	**2,093**	**37**	**3,692**	**3,996**	**4,713**	**909**
cPAH Compounds[2]											
Benzo(a)anthracene		100 U	50 U	50 U	50 UJ	.2 J	5 U	53 U,J	5 U,J	2.30 J	5 U
Benzo(a)pyrene		100 U	50 U	50 U	50 UJ	.1 U	5 U	53 U,J	5 U,J	5.30 U,J	5 U,J
Benzo(b)fluoranthene		100 U	50 U	50 U	50 UJ	.1 UJ	5 U	53 U,J	5 U,J	5.30 U,J	5 U,J
Benzo(k)fluoranthene	NA	100 U	50 U	50 U	50 UJ	.1 U	5 U	53 U,J	5 U,J	5.30 U,J	5 U,J
Chrysene		100 U	50 U	50 U	50 UJ	.23 J	5 U	53 U,J	5 U,J	2.70 J	5 U,J
Dibenzo(a,h)anthracene		100 U	50 U	50 U	50 UJ	.1 UJ	5 U	53 U,J	5 U,J	5.30 U,J	5 U,J
Indeno(1,2,3-cd)pyrene		100 U	50 U	50 U	50 UJ	.1 U	5 U	53 U,J	5 U,J	5.30 U,J	5 U,J
B(a)P Equivalent[3]	0.20	**115.6**	**57.8**	**57.8**	**57.8**	**0.27**	**5.8**	**61.2**	**5.8**	**5.8**	**5.8**
Volatile Organic Compounds											
Benzene	5	50 U	NS	NS	NS	5 U	5 U	0.52 J	5 U	5 U	5 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW22S	MWPBCI	SMW01S			TW-C5			TW-C6	
	(ppb)	4/29/2010	2/5/2009	3/2/2003	2/4/2009	4/12/2010	10/30/2002	10/30/2002	2/24/2003	10/30/2002	10/30/2002
Semi Volatile Organic Compounds											
2,4-Dimethylphenol	313	3400 J	5 U	10 UJ	5 U	5 U,J	17 J	10 UR	10 U	1100 J	790 J
2-Methylnaphthalene	31	890	50	10 UJ	.23	5 U	32 J	7 J	10 U	40 J	25 J
Carbazole	48	640	71	10 UJ	5 U	5 U	13 J	18 J	10 UJ	23 J	16 J
Dibenzofuran	31	330	44	10 UJ	5 U	5 U	35 J	21 J	10 U	17 J	11 J
Naphthalene	156	9500 J	430	2 J	1.1	5 U	50 UJ	10 UJ	10 U	570 J	350 J
Pentachlorophenol	1	280 U	2 J	26 UJ	2.2	10 U,J	190 J	140 J	110 J	18 J	10 J
Phenanthrene	469	310	29	10 UJ	1.2	5 U	21 J	10 J	10 U	11 J	6 J
Total SVOCs[1]	NA	20,994	764	2	6.49	ND	465	300	113	3,144	2,180
cPAH Compounds[2]											
Benzo(a)anthracene	NA	140 U	.1 U	10 UJ	.1 U	5 U	50 UJ	10 UJ	10 U	10 UJ	10 UJ
Benzo(a)pyrene		140 U	.1 U	10 UJ	.1 U	5 U	50 UJ	10 UJ	10 U	10 UJ	10 UJ
Benzo(b)fluoranthene		140 U	.1 U	10 UJ	.1 U	5 U	50 UJ	10 UJ	10 U	10 UJ	10 UJ
Benzo(k)fluoranthene		140 U,J	.1 U	10 UJ	.1 U	5 U	50 UJ	10 UJ	10 U	10 UJ	10 UJ
Chrysene		140 U,J	.074 J	10 UJ	.055 J	5 U	50 UJ	10 UJ	10 U	10 UJ	10 UJ
Dibenzo(a,h)anthracene		140 U	.1 U	10 UJ	.1 U	5 U	50 UJ	10 UJ	10 U	10 UJ	10 UJ
Indeno(1,2,3-cd)pyrene		140 U	.055 J	10 UJ	.1 U	5 U	50 UJ	10 UJ	10 U	10 UJ	10 UJ
B(a)P Equivalent[3]	0.20	161.8	0.17	11.6	0.12	5.8	57.8	11.6	11.6	11.6	11.6
Volatile Organic Compounds											
Benzene	5	530	5 U	NS	5 U	5 U	NS	NS	NS	NS	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	TW-C9		TW-D2	TW-D5	TWE1-1		TWE2	TWE4	TWE13	TWE15
	(ppb)	2/28/2003	3/8/2004	3/9/2004	3/8/2004	2/24/2003	3/9/2004	2/27/2003	2/27/2003	2/24/2003	3/9/2004
Semi Volatile Organic Compounds											
2,4-Dimethylphenol	313	10 UJ	10 U	11 U	10 U	50 U	10 U	93 J	1000 UJ	10 U	10 U
2-Methylnaphthalene	31	10 UJ	10 U	11 U	5 J	50 UJ	10 U	370 J	1000 UJ	10 UJ	10 U
Carbazole	48	10 UJ	10 U	11 U	6.9 J	50 UJ	10 U	340 J	1000 UJ	10 UJ	10 U
Dibenzofuran	31	10 UJ	10 U	11 U	3.2 J	50 UJ	10 U	160 J	140 J	10 UJ	10 U
Naphthalene	156	10 UJ	10 U	11 U	35	50 UJ	10 U	2900 J	580 J	10 UJ	10 U
Pentachlorophenol	1	13 J	1 U	3.6 J	8.5 J	130 UJ	1 U	310 J	12000 J	25 UJ	1 U
Phenanthrene	469	1 J	10 U	11 U	3.9 J	50 UJ	10 U	160 J	370 J	10 UJ	10 U
Total SVOCs[1]	NA	**17**	**ND**	**3.6**	**73.2**	**280**	**ND**	**4,833**	**14,510**	**310**	**ND**
cPAH Compounds[2]											
Benzo(a)anthracene		10 UJ	10 U	11 U	10 U	50 UJ	10 U	100 UJ	1000 UJ	10 UJ	10 U
Benzo(a)pyrene		10 UJ	10 U	11 U	10 U	50 UJ	10 U	100 UJ	1000 UJ	10 UJ	10 U
Benzo(b)fluoranthene		10 UJ	10 U	11 U	10 U	50 UJ	10 U	100 UJ	1000 UJ	10 UJ	10 U
Benzo(k)fluoranthene	NA	10 UJ	10 U	11 U	10 U	50 UJ	10 U	100 UJ	1000 UJ	10 UJ	10 U
Chrysene		10 UJ	10 U	11 U	10 U	50 UJ	10 U	100 UJ	1000 UJ	10 UJ	10 U
Dibenzo(a,h)anthracene		10 UJ	10 U	11 U	10 U	50 UJ	10 U	100 UJ	1000 UJ	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 UJ	10 U	11 U	10 U	50 UJ	10 U	100 UJ	1000 UJ	10 UJ	10 U
B(a)P Equivalent[3]	0.20	**11.6**	**11.6**	**12.7**	**11.6**	**57.8**	**11.6**	**115.6**	**1,155.5**	**11.6**	**11.6**
Volatile Organic Compounds											
Benzene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	TW-F2	TWF3		TWF8	TWF15	TW-F16	TWG1			
	(ppb)	3/8/2004	10/30/2002	10/30/2002	10/30/2002	3/8/2004	3/9/2004	10/30/2002	10/30/2002	2/24/2003	2/27/2003
Semi Volatile Organic Compounds											
2,4-Dimethylphenol	313	47	110 J	110 J	10 UR	10 U	1.5 J	10 UR	10 UR	10 U	10 UJ
2-Methylnaphthalene	31	10 U	420 J	1200 J	10 UJ	10 U	10 U	36 J	76 J	10 U	11 J
Carbazole	48	11 J	270 J	320 J	10 UJ	10 U	10 U	8 J	6 J	10 UJ	2 J
Dibenzofuran	31	8.2 J	210 J	670 J	10 UJ	10 U	10 U	23 J	42 J	10 U	8 J
Naphthalene	156	19	2700 J	4200 J	10 UJ	10 U	23	79 J	77 J	10 U	14 J
Pentachlorophenol	1	10 J	650 J	780 J	25 UJ	1 U	3.1 J	1200 J	1100 J	25 UJ	670 J
Phenanthrene	469	6.4 J	600 J	3200 J	2 J	10 U	10 U	72 J	77 J	10 U	19 J
Total SVOCs[1]	**NA**	**171.4**	**6,826**	**16,054**	**6**	**1.2**	**59.8**	**2,013**	**1,874**	**560**	**782**
cPAH Compounds[2]											
Benzo(a)anthracene		10 U	43 J	280 J	10 UJ	10 U	10 U	2 J	10 UJ	10 U	10 UJ
Benzo(a)pyrene		10 U	16 J	89 J	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ
Benzo(b)fluoranthene		10 U	19 J	120 J	10 UJ	10 U	1.2 J	10 UJ	10 UJ	10 U	10 UJ
Benzo(k)fluoranthene	NA	10 U	16 J	100 J	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ
Chrysene		10 U	40 J	270 J	10 UJ	10 U	10 U	2 J	10 UJ	10 U	10 UJ
Dibenzo(a,h)anthracene		10 U	50 UJ	100 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ
Indeno(1,2,3-cd)pyrene		10 U	6 J	35 J	10 UJ	10 U	1.7 J	10 UJ	10 UJ	10 U	10 UJ
B(a)P Equivalent[3]	**0.20**	**11.6**	**72.3**	**355.7**	**11.6**	**11.6**	**10.8**	**8.6**	**11.6**	**11.6**	**11.6**
Volatile Organic Compounds											
Benzene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	TWG11	TWG13	TWG2-2		TW-G2-2	TWG2-3	TW-H15	TW-H3-1A	TW-I11	TW-I3-1A
	(ppb)	3/9/2004	2/24/2003	2/24/2003	2/27/2003	3/9/2004	2/27/2003	3/9/2004	3/9/2004	3/9/2004	3/8/2004
Semi Volatile Organic Compounds											
2,4-Dimethylphenol	313	10 U	57	10 U	200 UJ	10 U	1000 UJ	10 U	5.7 J	10 U	2.4 J
2-Methylnaphthalene	31	10 U	60 J	10 UJ	200 UJ	10 U	1000 UJ	10 U	280	10 U	33
Carbazole	48	10 U	25 J	10 UJ	200 UJ	10 U	1000 UJ	10 U	48	10 U	59 J
Dibenzofuran	31	10 U	66 J	10 UJ	200 UJ	10 U	1000 UJ	10 U	70	10 U	8.1 J
Naphthalene	156	10 U	45 J	10 UJ	200 UJ	10 U	1000 UJ	10 U	6 J	10 U	270
Pentachlorophenol	1	1 U	420 J	44 J	1600 J	1300	100000 J	2.3 J	6500	1 U	2200
Phenanthrene	469	10 U	42 J	10 UJ	200 UJ	10 U	1000 UJ	10 U	91	10 U	7.9 J
Total SVOCs[1]	NA	**ND**	**1,257**	**594**	**1,600**	**1,304**	**100,260**	**2.3**	**7,759**	**ND**	**2,827**
cPAH Compounds[2]											
Benzo(a)anthracene		10 U	50 UJ	10 UJ	200 UJ	10 U	1000 UJ	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	50 UJ	10 UJ	200 UJ	10 U	1000 UJ	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	50 UJ	10 UJ	200 UJ	10 U	1000 UJ	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	NA	10 U	50 UJ	10 UJ	200 UJ	10 U	1000 UJ	10 U	10 U	10 U	10 U
Chrysene		10 U	50 UJ	10 UJ	200 UJ	10 U	1000 UJ	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	50 UJ	10 UJ	200 UJ	10 U	1000 UJ	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	50 UJ	10 UJ	200 UJ	10 U	1000 UJ	10 U	10 U	10 U	10 U
B(a)P Equivalent[3]	0.20	**11.6**	**57.8**	**11.6**	**231.1**	**11.6**	**1155.5**	**11.6**	**11.6**	**11.6**	**11.6**
Volatile Organic Compounds											
Benzene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8a
Shallow Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	TWJ5-1	TWJ9	TW-K4-1		TW-K5-1
	(ppb)	3/8/2004	2/25/2003	3/8/2004	3/8/2004	3/9/2004
Semi Volatile Organic Compounds						
2,4-Dimethylphenol	313	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	31	10 U	10 U	10 U	10 U	10 U
Carbazole	48	10 U	10 UJ	10 U	10 U	10 U
Dibenzofuran	31	10 U	10 U	10 U	10 U	10 U
Naphthalene	156	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1	3 J	25 UJ	32	41	1 U
Phenanthrene	469	10 U	10 U	10 U	10 U	10 U
Total SVOCs[1]	NA	3	2,500	34.3	45.1	ND
cPAH Compounds[2]						
Benzo(a)anthracene	NA	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U
B(a)P Equivalent[3]	0.20	11.6	11.6	11.6	11.6	11.6
Volatile Organic Compounds						
Benzene	5	NS	NS	NS	NS	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	AFMW01I					AFMW03I				
	(ppb)	3/5/2003	12/19/2006	2/7/2009	2/7/2009	4/20/2010	12/19/2006	5/13/2008	2/8/2009	4/20/2010	
Semi Volatile Organic Compounds											
2-Methylnaphthalene	31	10 U	.1 U	.1 U	.059 J	5 U,J	.1 U	.1 U	.1 U	5	U,J
Acenaphthene	469	10 U	.1 U	.1 U	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Carbazole	48	10 U	5 U	5 U	5 U	5 U,J	5 U	5 U	5 U	5	U,J
Dibenzofuran	31	10 U	5 U	5 U	5 U	5 U,J	5 U	5 U	5 U	5	U,J
Fluorene	313	10 U	.1 U	.1 U	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Naphthalene	156	10 U	.1 U	.1	.31	5 U,J	.1 U	.1 U	.28	5	U,J
Pentachlorophenol	1	25 U	.2 UR	.06 J	.2 U	10 U,J	.2 UR	10 U	.094 J	10	U,J
Phenanthrene	469	10 U	.1 U	.1 U	.08 J	5 U,J	.1 U	.1 U	.07 J	5	U,J
Total SVOCs[1]	NA	**79**	**ND**	**0.60**	**0.45**	**ND**	**ND**	**ND**	**0.52**	**ND**	
cPAH Compounds[2]											
Benzo(a)anthracene		10 U	.1 U	.1 U	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Benzo(a)pyrene		10 U	.1 U	.1 U	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Benzo(b)fluoranthene		10 U	.1 U	.1 UJ	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Benzo(k)fluoranthene	NA	10 U	.1 U	.1 U	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Chrysene		10 U	.1 U	.1 U	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Dibenzo(a,h)anthracene		10 U	.1 U	.1 UJ	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
Indeno(1,2,3-cd)pyrene		10 U	.1 U	.1 U	.1 U	5 U,J	.1 U	.1 U	.1 U	5	U,J
B(a)P Equivalent[3]	0.20	**11.6**	**0.12**	**0.12**	**0.12**	**5.8**	**0.12**	**0.12**	**0.12**	**5.8**	
Volatile Organic Compounds											
Benzene	5	NS	NS	5 U	5 U	NS	NS	NS	5 U	NS	
Ethylbenzene	700	NS	NS	5 U	5 U	NS	NS	NS	5 U	NS	
Pesticides and PCB Compounds											
Heptachlor epoxide	0.2	NS	NS	.05 U	.05 U	NS	NS	NS	.05 U	NS	

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	AFMW02I		CMW01I					F15MWI		
	(ppb)	2/8/2009	4/20/2010	4/22/1998	2/24/2003	12/13/2006	2/10/2009	4/11/2010	3/4/2003	2/6/2009	4/14/2010
Semi Volatile Organic Compounds											
2-Methylnaphthalene	**31**	.1 U	.5 U,J	10 U	10 U	7.1	8.1	4.20 J	10 U	.1 U	.5 U
Acenaphthene	**469**	.1 U	.5 U,J	10 U	10 U	.33	.1 U	.5 U	10 U	.1 U	.5 U
Carbazole	**48**	5 U	.5 U,J	10 U	10 UJ	.5 U	2.3 J	2.60 J	10 U	5 U	.5 U
Dibenzofuran	**31**	5 U	.5 U,J	10 U	10 U	3.4 J	5.1	5.70	10 U	5 U	.5 U
Fluorene	**313**	.1 U	.5 U,J	10 U	10 U	.1 U	.6	5 U	10 U	.1 U	.5 U
Naphthalene	**156**	.15	.5 U,J	10 UJ	10 U	.65	89	60	10 U	.13	3.10 J
Pentachlorophenol	**1**	.2 U	10 U,J	25 U	25 UJ	550	420 J	310 J	25 U	.2 U	10 U,J
Phenanthrene	**469**	.08 J	.5 U,J	10 U	10 U	2.3 J	2.9	5 U	10 U	.055 J	.5 U
Total SVOCs[1]	**NA**	**0.23**	**ND**	**ND**	**ND**	**19.29**	**540**	**398**	**ND**	**0.411**	**3.10**
cPAH Compounds[2]											
Benzo(a)anthracene		.1 U	.5 U,J	10 U	10 U	.1 U	.1 U	.5 U	10 U	.1 U	.5 U
Benzo(a)pyrene		.1 U	.5 U,J	10 U	10 U	.1 U	.1 U	.5 U	10 U	.1 U	.5 U
Benzo(b)fluoranthene		.1 U	.5 U,J	10 U	10 U	.1 U	.1 U	.5 U	10 U	.1 UJ	.5 U
Benzo(k)fluoranthene	**NA**	.1 U	.5 U,J	10 U	10 U	.1 U	.1 U	.5 U	10 U	.1 U	.5 U
Chrysene		.1 U	.5 U,J	10 U	10 U	.1 U	.1 U	.5 U	10 U	.1 U	.5 U
Dibenzo(a,h)anthracene		.1 U	.5 U,J	10 U	10 UJ	.1 U	.1 U	.5 U	10 U	.1 UJ	.5 U
Indeno(1,2,3-cd)pyrene		.1 U	.5 U,J	10 U	10 U	.1 U	.1 U	.5 U	10 U	.1 U	.5 U
B(a)P Equivalent[3]	**0.20**	**0.12**	**5.8**	**11.6**	**11.6**	**0.12**	**0.12**	**5.8**	**11.6**	**0.12**	**5.8**
Volatile Organic Compounds											
Benzene	**5**	.5 U	NS	1 U	NS	NS	5 U	5 U	NS	5 U	.5 U
Ethylbenzene	**700**	5 U	NS	1 U	NS	NS	5 U	5 U	NS	5 U	.5 U
Pesticides and PCB Compounds											
Heptachlor epoxide	**0.2**	.05 U	NS	.05 U	NS	NS	.05 U	NS	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	LMWI-1		MASMW01I				MASMW02I			
	(ppb)	3/2/2003	4/12/2010	12/7/2006	5/14/2008	2/9/2009	4/20/2010	12/13/2006	5/14/2008	2/9/2009	4/20/2010
Semi Volatile Organic Compounds											
2-Methylnaphthalene	31	10 UJ	5 U	.025 J	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Acenaphthene	469	10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Carbazole	48	10 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ
Dibenzofuran	31	10 UJ	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ
Fluorene	313	10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Naphthalene	156	10 UJ	5 U	.32 J	.1 U	.32	5 UJ	.1 U	.022 J	.27	5 UJ
Pentachlorophenol	1	25 UJ	5 U	.2 UJ	10 U	.2 U	10 UJ	.2 UR	10 U	.2 U	10 UJ
Phenanthrene	469	10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Total SVOCs[1]	**NA**	**ND**	**ND**	**1.16**	**ND**	**0.38**	**ND**	**ND**	**0.022**	**0.27**	**ND**
cPAH Compounds[2]											
Benzo(a)anthracene		10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Benzo(a)pyrene		10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Benzo(b)fluoranthene		10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Benzo(k)fluoranthene	NA	10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Chrysene		10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Dibenzo(a,h)anthracene		10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
Indeno(1,2,3-cd)pyrene		10 UJ	5 U	.1 U	.1 U	.1 U	5 UJ	.1 U	.1 U	.1 U	5 UJ
B(a)P Equivalent[3]	**0.20**	**11.6**	**5.8**	**0.12**	**0.12**	**0.12**	**5.8**	**0.12**	**0.12**	**0.12**	**5.8**
Volatile Organic Compounds											
Benzene	5	NS	5 U	NS	NS	5 U	NS	NS	NS	5 U	NS
Ethylbenzene	700	NS	5 U	NS	NS	5 U	NS	NS	NS	5 U	NS
Pesticides and PCB Compounds											
Heptachlor epoxide	0.2	NS	NS	NS	NS	.05 U	NS	NS	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW01A	MW01I			MW02			
	(ppb)	4/22/1998	4/21/1998	2/6/2009	4/9/2010	4/22/1998	12/8/2006	2/11/2009	4/13/2010
Semi Volatile Organic Compounds									
2-Methylnaphthalene	31	10 U	10 U	.1 U	5 U	10 U	11	.61	5 U
Acenaphthene	469	10 U	10 U	.1 U	5 U	10 U	.056 J	.1 U	5 U
Carbazole	48	10 U	10 U	5 U	5 U	10 U	5 U	5 U	5 U
Dibenzofuran	31	10 U	10 U	5 U	5 U	10 U	8.4	6.6	5 U
Fluorene	313	10 U	10 U	.1 U	5 U	10 U	1.5 J	.76	5 U
Naphthalene	156	10 UJ	10 UJ	.11	5 U	10 UJ	48	6.6	7.30
Pentachlorophenol	1	25 U	25 U	.2 U	10 U	60	96	83 J	10 UJ
Phenanthrene	469	10 U	10 U	.1 U	5 U	10 U	9.5	3.4	5 U
Total SVOCs[1]	NA	**3**	**ND**	**0.11**	**ND**	**62**	**177.98**	**103.62**	**7.30**
cPAH Compounds[2]									
Benzo(a)anthracene	NA	10 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Benzo(a)pyrene		10 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Benzo(b)fluoranthene		10 U	10 U	.1 UJ	5 U	10 U	.1 U	.1 UJ	5 U
Benzo(k)fluoranthene		10 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Chrysene		10 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Dibenzo(a,h)anthracene		10 U	10 U	.1 UJ	5 U	10 U	.1 U	.1 UJ	5 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
B(a)P Equivalent[3]	0.20	**11.6**	**11.6**	**0.12**	**5.8**	**11.6**	**0.12**	**0.12**	**5.8**
Volatile Organic Compounds									
Benzene	5	1 U	1 U	5 U	5 U	1 U	NS	5 U	5 U
Ethylbenzene	700	1 U	1 U	5 U	5 U	1 U	NS	5 U	5 U
Pesticides and PCB Compounds									
Heptachlor epoxide	0.2	.17 N	.05 U	.05 U	NS	.05 U	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW02I			MW03A			MW03B	
	(ppb)	4/22/1998	2/5/2009	4/7/2010	4/22/1998	2/11/2009	4/14/2010	2/6/2009	4/14/2010
Semi Volatile Organic Compounds									
2-Methylnaphthalene	**31**	120 J	47	5 U	6 J	.54	5 U	.6	5 U
Acenaphthene	**469**	10 U	.52	100 J	10 U	.075 J	4.60 J	.1 U	5 U
Carbazole	**48**	52 J	35	28	10 U	5 U	5 U	5 U	5 U
Dibenzofuran	**31**	89 J	67	55	12	2.8 J	2.50 J	4.3 J	5 U
Fluorene	**313**	92 J	56	49	10	2.6	2.20 J	3.4	5 U
Naphthalene	**156**	570 J	200	5 U	210 J	7.3	3.30 J	15	5 U
Pentachlorophenol	**1**	25 U	.26 J	10 U	25 U	10 UJ	10 U,J	.086 J	10 U,J
Phenanthrene	**469**	79	28	26	22	8.5	6.50	3.2	5 U
Total SVOCs[1]	**NA**	**1059**	**585.5**	**277**	**295**	**49.32**	**28**	**34.02**	**ND**
cPAH Compounds[2]									
Benzo(a)anthracene		10 U	.1 U	5 U	10 U	.38	5 U	.1 U	5 U
Benzo(a)pyrene		10 U	.1 U	5 U	10 U	.1 U	5 U	.1 U	5 U
Benzo(b)fluoranthene		10 U	.1 U	5 U	10 U	.08 J	5 U	.1 UJ	5 U
Benzo(k)fluoranthene	**NA**	10 U	.1 U	5 U	10 U	.063 J	5 U	.1 U	5 U
Chrysene		10 U	.06 J	5 U	10 U	.72	5 U	.1 U	5 U
Dibenzo(a,h)anthracene		10 U	.1 U	5 U	10 U	.1 UJ	5 U	.1 UJ	5 U
Indeno(1,2,3-cd)pyrene		10 U	.093 J	5 U	10 U	.1 U	5 U	.1 U	5 U
B(a)P Equivalent[3]	**0.20**	**11.6**	**0.12**	**5.8**	**11.6**	**0.45**	**5.8**	**0.12**	**5.8**
Volatile Organic Compounds									
Benzene	**5**	20 U	3.4 J	3.20 J	4 U	5 UJ	5 U	5 U	5 U
Ethylbenzene	**700**	20 U	5 U	5 U	4 U	5 U	5 U	5 U	5 U
Pesticides and PCB Compounds									
Heptachlor epoxide	**0.2**	.05 U	.05 U	NS	.05 U	.05 U	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable, the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW03I			MW04A			MW05I			
	(ppb)	4/22/1998	2/10/2009	4/11/2010	4/21/1998	2/7/2009	4/15/2010	4/22/1998	12/13/2006	2/11/2009	4/11/2010
Semi Volatile Organic Compounds											
2-Methylnaphthalene	31	1 J	.16	5 U	10 U	52	46	7 J	5.9	.17	5 U
Acenaphthene	469	10 U	.086 J	2.40 J	10 U	.33	33	10 U	7.1	.13	5 U
Carbazole	48	10 U	5 U	5 U	3 J	5 U	5 U	3 J	9.1	2.7 J	5 U
Dibenzofuran	31	3 J	.81 J	5 U	18	35	33	18	12	3.7 J	2 J
Fluorene	313	1 J	.2	5 U	20	25	23	11	4.7 J	1.3	5 U
Naphthalene	156	1 J	2.8	5 U	5 J	250	680	17 J	23	.25	5 U
Pentachlorophenol	1	25 U	.65 J	10 U,J	25 U	.2 U	10 U,J	28 J	230	71 J	47 J
Phenanthrene	469	3 J	.46	5 U	23	37	34	60	6	.2	5 U
Total SVOCs[1]	NA	**23**	**19.056**	**11**	**98**	**445.4**	**853**	**184**	**335.5**	**95.3**	**59**
cPAH Compounds[2]											
Benzo(a)anthracene	NA	10 U	.22 J	5 U	10 U	.1 U	5 U	10 U	.25	.39	5 U
Benzo(a)pyrene		10 U	.1 U	5 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Benzo(b)fluoranthene		10 U	.1 U	5 U	10 U	.1 U	5 U	10 U	.1 U	.1 UJ	5 U
Benzo(k)fluoranthene		10 U	.1 U	5 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Chrysene		10 U	.33	5 U	10 U	.053 J	5 U	10 U	.11	.34	5 U
Dibenzo(a,h)anthracene		10 U	.1 U	5 U	10 U	.1 U	5 U	10 U	.1 U	.1 UJ	5 U
Indeno(1,2,3-cd)pyrene		10 U	.1 U	5 U	10 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
B(a)P Equivalent[3]	0.20	**11.6**	**0.29**	**5.8**	**11.6**	**0.12**	**5.8**	**11.6**	**0.32**	**0.46**	**5.8**
Volatile Organic Compounds											
Benzene	5	1 U	5 U	5 U	5.5 J	3.7 J	3.50 J	1 U	NS	5 U	5 U
Ethylbenzene	700	1 U	5 U	5 U	5 U	5 U	5 U	1 U	NS	5 U	5 U
Pesticides and PCB Compounds											
Heptachlor epoxide	0.2	.05 U	.05 U	NS	.05 U	.05 U	NS	.05 U	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW06I					MW07I			
	(ppb)	4/22/1998	2/24/2003	2/11/2009	2/11/2009	4/13/2010	4/22/1998	12/13/2006	2/11/2009	4/12/2010
Semi Volatile Organic Compounds										
2-Methylnaphthalene	**31**	10 U	10 U	.077 J	.067 J	5 U	10 U	.1 U	.078 J	5 U
Acenaphthene	**469**	10 U	10 U	.1 U	.1 U	5 U	10 U	.1 U	.1 U	14
Carbazole	**.48**	10 U	10 UJ	10 U	5 U	2.20 J	10 U	5 U	5 U	9.10
Dibenzofuran	**31**	10 U	10 U	10 U	5 U	5 U	10 U	5 U	5 U	11
Fluorene	**313**	10 U	10 U	.1 U	.1 U	5 U	10 U	.1 U	.1 U	23
Naphthalene	**156**	10 UJ	10 U	.16	.15	13	10 UJ	.1 U	.16	5 U
Pentachlorophenol	**1**	25 U	25 UJ	2.8 J	.3 J	10 U	25 U	.075 J	.48 J	4.20 J
Phenanthrene	**469**	10 U	10 U	.062 J	.058 J	5 U	10 U	.1 U	.059 J	19
Total SVOCs[1]	**NA**	**ND**	**4004**	**3.26**	**0.58**	**15**	**ND**	**0.08**	**1.01**	**91**
cPAH Compounds[2]										
Benzo(a)anthracene		10 U	10 U	.1 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Benzo(a)pyrene		10 U	10 U	.1 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Benzo(b)fluoranthene		10 U	10 U	.069 J	.1 UJ	5 U	10 U	.1 U	.1 UJ	5 U
Benzo(k)fluoranthene	**NA**	10 U	10 U	.1 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Chrysene		10 U	10 U	.1 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Dibenzo(a,h)anthracene		10 U	10 U	.1 UJ	.1 UJ	5 U	10 U	.1 U	.1 UJ	5 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	.1 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
B(a)P Equivalent[3]	**0.20**	**11.6**	**11.6**	**0.01**	**0.12**	**5.8**	**11.6**	**0.12**	**0.12**	**5.8**
Volatile Organic Compounds										
Benzene	**5**	1 U	NS	5 UJ	5 U	5 U	1 U	NS	5 U	5 U
Ethylbenzene	**700**	1 U	NS	5 U	5 U	5 U	1 U	NS	5 U	5 U
Pesticides and PCB Compounds										
Heptachlor epoxide	**0.2**	.05 U	NS	.05 U	.05 U	NS	.05 U	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable, the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MW09I				MW10I				MW11I	MW15I
	(ppb)	12/19/2006	5/14/2008	2/11/2009	4/13/2010	12/19/2006	5/13/2008	2/9/2009	4/13/2010	4/19/2010	4/19/2010
Semi Volatile Organic Compounds											
2-Methylnaphthalene	31	.1 U	5 U	.092 J	5 U	200	680	950	800 J	130 J	5 U,J
Acenaphthene	469	.1 U	5 U	.1 U	5 U	2.7 J	15	25	540	47 J	5 U,J
Carbazole	48	5 U	5 U	5 U	5 U	73	410	360	420	200 U,J	5 U,J
Dibenzofuran	31	5 U	5 U	5 U	3.10 J	100	260	340	370	200 U,J	5 U,J
Fluorene	313	.064 J	5 U	.053 J	5 U	79	210	290	300	200 U,J	5 U,J
Naphthalene	156	.1 U	5 U	.22	5 U	2200	8200	13000	13000	180 J	5 U,J
Pentachlorophenol	1	.95 J	10 U	6.1 J	80 J	18 J	510	690 J	80	3500 J	10 U,J
Phenanthrene	469	.1 U	5 U	.14	5 U	87	160	240	260	61 J	5 U,J
Total SVOCs[1]	NA	**0.32**	**ND**	**7.08**	**91**	**2,923**	**11,126**	**16,711**	**16,061**	**4,288**	**ND**
cPAH Compounds[2]											
Benzo(a)anthracene		.1 U	5 U	.1 U	5 U	.16	5 U	1.2 J	5 U,J	200 U,J	5 U,J
Benzo(a)pyrene		.1 U	5 U	.1 U	5 U	.1 U	5 U	.34 J	5 U	200 U,J	5 U,J
Benzo(b)fluoranthene		.1 U	5 U	.1 UJ	5 U	.1 U	5 U	.3 J	5 U	200 U,J	5 U,J
Benzo(k)fluoranthene	NA	.1 U	5 U	.1 U	5 U	.1 U	5 U	.29 J	5 U	200 U,J	5 U,J
Chrysene		.1 U	5 U	.062 J	5 U	.14	5 U	.94 J	5 U,J	200 U,J	5 U,J
Dibenzo(a,h)anthracene		.1 U	5 U	.1 UJ	5 U	.1 U	5 U	.082 J	5 U	200 U,J	5 U,J
Indeno(1,2,3-cd)pyrene		.1 U	5 U	.1 U	5 U	.1 U	5 U	.12 J	5 U	200 U,J	5 U,J
B(a)P Equivalent[3]	0.20	**0.12**	**5.8**	**0.12**	**5.8**	**0.23**	**5.8**	**1.4**	**5.8**	**231.1**	**5.8**
Volatile Organic Compounds											
Benzene	5	NS	NS	5 U	5 U	NS	NS	49	57	2.20 J	1.10 J
Ethylbenzene	700	NS	NS	5 U	5 U	NS	NS	40	44	15	5 U
Pesticides and PCB Compounds											
Heptachlor epoxide	0.2	NS	NS	.05 U	NS	NS	NS	.05 U	NS	NS	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	MW16I 4/19/2010	MW17I 4/19/2010	MW18I 4/19/2010	MW19I 4/29/2010	MW20I 4/19/2010	MW21I 4/29/2010	MWPBCI 2/5/2009
Semi Volatile Organic Compounds								
2-Methylnaphthalene	31	39 J	4.90 J	2.10 J	5 U	5 U,J	5 U	50
Acenaphthene	469	36 J	23 J	5.10 U,J	5 U	5 U,J	5 U	1.4
Carbazole	48	22 J	37 J	5.10 U,J	5 U	5 U,J	5 U	71
Dibenzofuran	31	10 J	46 J	16 J	5 U	5 U,J	5 U	44
Fluorene	313	13 J	9.20 J	2.90 J	5 U	5 U,J	5 U	51
Naphthalene	156	720 J	5 U,J	5.10 U,J	5 U,J	0.92 J	5 U,J	430
Pentachlorophenol	1	13 J	20 J	2200 J	10 U	10 U,J	10 U	.2 J
Phenanthrene	469	3.90 J	27 J	10 J	5 U	5 U,J	5 U	29
Total SVOCs[1]	**NA**	**860**	**177**	**2,253**	**ND**	**0.92**	**ND**	**764**
cPAH Compounds[2]								
Benzo(a)anthracene		5 U,J	5 U,J	5.10 U,J	5 U	5 U,J	5 U	.1 U
Benzo(a)pyrene		5 U,J	5 U,J	5.10 U,J	5 U	5 U,J	5 U	.1 U
Benzo(b)fluoranthene		5 U,J	5 U,J	5.10 U,J	5 U	5 U,J	5 U	.1 U
Benzo(k)fluoranthene	NA	5 U,J	5 U,J	5.10 U,J	5 U	5 U,J	5 U,J	.1 U
Chrysene		5 U,J	5 U,J	5.10 U,J	5 U,J	5 U,J	5 U,J	.074 J
Dibenzo(a,h)anthracene		5 U,J	5 U,J	5.10 U,J	5 U	5 U,J	5 U	.1 U
Indeno(1,2,3-cd)pyrene		5 U,J	5 U,J	5.10 U,J	5 U	5 U,J	5 U	.055 J
B(a)P Equivalent[3]	**0.20**	**5.8**	**5.8**	**5.9**	**5.8**	**5.8**	**5.8**	**0.12**
Volatile Organic Compounds								
Benzene	5	6.40	3.60 J	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	700	1.50 J	6.90	5 U	5 U	5 U	5 U	5 U
Pesticides and PCB Compounds								
Heptachlor epoxide	0.2	NS	NS	NS	NS	NS	NS	.05 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable, the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	MWPBEI				MWPBWI			
	(ppb)	12/11/2006	5/15/2008	2/5/2009	4/14/2010	12/11/2006	2/5/2009	4/14/2010	
Semi Volatile Organic Compounds									
2-Methylnaphthalene	31	89	330	250	31	.1 U	.12	5	U
Acenaphthene	469	3.6 J	5.9	3.7	92	.1 U	.1 U	5	U
Carbazole	48	50	250	130	90	5 U	5 U	5	U
Dibenzofuran	31	78	280	220	120	5 U	5 U	5	U
Fluorene	313	69	230 J	140	93	.1 U	.16	5	U
Naphthalene	156	700	2300	1900	360	.1 U	.6	5	U
Pentachlorophenol	1	59	78	130 J	10 J	.18 R	.62 J	10	U,J
Phenanthrene	469	57	210 J	120	54	.1 U	.51	5	U
Total SVOCs[1]	NA	1,243	4,160	3,201	900	2.11	8.97	ND	
cPAH Compounds[2]									
Benzo(a)anthracene	NA	.071 J	5 U	.28 J	5 U	.1 U	.1 U	5	U
Benzo(a)pyrene		.1 U	5 U	.1 U	5 U	.1 U	.1 U	5	U
Benzo(b)fluoranthene		.1 U	5 U	.055 J	5 U	.1 U	.1 U	5	U
Benzo(k)fluoranthene		.1 U	5 U	.056 J	5 U	.1 U	.1 U	5	U
Chrysene		.068 J	5 U	.36 J	5 U	.1 U	.055 J	5	U
Dibenzo(a,h)anthracene		.1 U	5 U	.1 U	5 U	.1 U	.1 U	5	U
Indeno(1,2,3-cd)pyrene		.1 U	5 U	.057 J	5 U	.1 U	.1 U	5	U
B(a)P Equivalent[3]	0.20	0.14	5.8	0.35	5.8	0.12	0.12	5.8	
Volatile Organic Compounds									
Benzene	5	NS	NS	5 U	5 U	NS	5 U	5	U
Ethylbenzene	700	NS	NS	4.8 J	2.60 J	NS	5 U	5	U
Pesticides and PCB Compounds									
Heptachlor epoxide	0.2	NS	NS	.05 U	NS	NS	.05 U	NS	

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	PMW01I					SMW01I				
	(ppb)	12/8/2006	2/9/2009	2/9/2009	4/14/2010		3/2/2003	3/2/2003	12/12/2006	2/4/2009	4/12/2010	
Semi Volatile Organic Compounds												
2-Methylnaphthalene	**31**	.83 J	.15	.088 J	5	U	10 UJ	10 UJ	7.8	.14	5	U,J
Acenaphthene	**469**	.73 J	.1 U	.077 J	5	U	2 J	1 J	1.6 J	.1 U	31	J
Carbazole	**48**	2.4 J	1.6 J	5 U	5	U	10 UJ	10 UJ	20	28	19	
Dibenzofuran	**31**	6.1	5 U	5 U	5	U	1 J	2 J	59	15	22	
Fluorene	**313**	.78 J	.54	.76	5	U	2 J	2 J	51	52	50	
Naphthalene	**156**	6.4	1.1	.57	5	U	10 UJ	10 UJ	130	1	5	U,J
Pentachlorophenol	**1**	3500	38 J	26 J	64	J	75 J	65 J	29	37 J	9	J
Phenanthrene	**469**	15	.12	.27	5	U	10 UJ	10 UJ	66	50	41	
Total SVOCs[1]	**NA**	**3645**	**45.2**	**31.5**	**69**		**144**	**123**	**438.8**	**255.1**	**166**	
cPAH Compounds[2]												
Benzo(a)anthracene		.1 U	.1 U	.1 U	5	U	10 UJ	10 UJ	.25	.082 J	5	U,J
Benzo(a)pyrene		.1 UJ	.1 U	.1 U	5	U	10 UJ	10 UJ	.057 J	.1 U	5	U
Benzo(b)fluoranthene		.1 UJ	.1 UJ	.1 UJ	5	U	10 UJ	10 UJ	.13	.1 U	5	U
Benzo(k)fluoranthene	**NA**	.1 UJ	.1 U	.1 U	5	U	10 UJ	10 UJ	.13	.1 U	5	U
Chrysene		.1 U	.1 U	.1 U	5	U	10 UJ	10 UJ	.2	.099 J	5	U,J
Dibenzo(a,h)anthracene		.1 UJ	.1 UJ	.1 UJ	5	U	10 UJ	10 UJ	.1 U	.1 U	5	U
Indeno(1,2,3-cd)pyrene		.1 UJ	.1 U	.1 U	5	U	10 UJ	10 UJ	.1 U	.1 U	5	U
B(a)P Equivalent[3]	**0.20**	**0.12**	**0.12**	**0.12**	**5.8**		**11.6**	**11.6**	**0.33**	**0.15**	**5.8**	
Volatile Organic Compounds												
Benzene	**5**	NS	5 U	5 U	5	U	NS	NS	NS	5 U	5	U
Ethylbenzene	**700**	NS	5 U	5 U	5	U	NS	NS	NS	5 U	5	U
Pesticides and PCB Compounds												
Heptachlor epoxide	**0.2**	NS	.05 U	.05 U	NS		NS	NS	NS	.05 U	NS	

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	SMW02I			SMW03I		TMW01I			
	(ppb)	12/6/2006	2/10/2009	4/12/2010	2/10/2009	4/12/2010	3/4/2003	12/18/2006	2/7/2009	4/12/2010
Semi Volatile Organic Compounds										
2-Methylnaphthalene	**31**	.1 U	200	5 U,J	1.1	5 U	10 U	.1 U	.13	5 U
Acenaphthene	**469**	.1 U	.87	20 J	.11	5 U	10 U	.1 U	.1 U	5 U
Carbazole	**48**	5 U	9.6	4.10 J	5 U	5 U	10 U	5 U	5 U	5 U
Dibenzofuran	**31**	5 U	78	16	5 U	5 U	10 U	5 U	5 U	5 U
Fluorene	**313**	.1 U	59	26	.96	5 U	10 U	.1 U	.085 J	5 U
Naphthalene	**156**	.1 U	2300	5 U,J	6.8	5 U	1 J	.1 U	.77	5 U
Pentachlorophenol	**1**	.2 U	2.5 J	10 U,J	.92 J	10 U,J	4 J	.2 UR	.2 U	10 U,J
Phenanthrene	**469**	.1 U	53	23	2.9 J	5 U	10 U	.1 U	.3	5 U
Total SVOCs[1]	**NA**		**2825**	**104**	**15.7**	**11**	**8**	**ND**	**1.47**	**ND**
cPAH Compounds[2]										
Benzo(a)anthracene		.1 U	.1 J	5 U	.22 J	5 U	10 U	.1 U	.1 U	5 U
Benzo(a)pyrene		.1 U	.1 U	5 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Benzo(b)fluoranthene		.1 U	.1 U	5 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Benzo(k)fluoranthene	**NA**	.1 U	.1 U	5 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Chrysene		.1 U	.14	5 U	.21 J	5 U	10 U	.1 U	.1 U	5 U
Dibenzo(a,h)anthracene		.1 U	.1 U	5 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
Indeno(1,2,3-cd)pyrene		.1 UJ	.1 U	5 U	.1 U	5 U	10 U	.1 U	.1 U	5 U
B(a)P Equivalent[3]	**0.20**	**0.12**	**0.12**	**5.8**	**0.29**	**5.8**	**11.6**	**0.12**	**0.12**	**5.8**
Volatile Organic Compounds										
Benzene	**5**	NS	5 U	3.40 J	4.1 J	5 U	NS	NS	5 U	5 U
Ethylbenzene	**700**	NS	5 U	5 U	5 U	5 U	NS	NS	5 U	5 U
Pesticides and PCB Compounds										
Heptachlor epoxide	**0.2**	NS	.05 U	NS	.05 U	NS	NS	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-8b
Intermediate Ground Water Sample Results: Organic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal	TMW02I			
	(ppb)	12/9/2006	5/13/2008	2/8/2009	4/12/2010
Semi Volatile Organic Compounds					
2-Methylnaphthalene	31	.1 U	.043 J	.1 U	5 U
Acenaphthene	469	.1 U	.1 U	.1 U	5 U
Carbazole	48	.5 U	.5 U	.5 U	.5 U
Dibenzofuran	31	.5 U	.5 U	.5 U	.5 U
Fluorene	313	.1 U	.1 U	.1 U	5 U
Naphthalene	156	.1 U	.45	.15	5 U
Pentachlorophenol	1	.2 UR	.12 J	.2 U	66 J
Phenanthrene	469	.1 U	.1 U	.1 U	5 U
Total SVOCs[1]	**NA**	**ND**	**0.61**	**.15**	**71**
cPAH Compounds[2]					
Benzo(a)anthracene	NA	.1 U	.1 U	.1 U	5 U
Benzo(a)pyrene		.1 U	.1 U	.1 U	5 U
Benzo(b)fluoranthene		.1 U	.1 U	.1 U	5 U
Benzo(k)fluoranthene		.1 U	.1 U	.1 U	.5 U
Chrysene		.1 U	.1 U	.1 U	5 U
Dibenzo(a,h)anthracene		.1 U	.1 U	.1 U	5 U
Indeno(1,2,3-cd)pyrene		.1 U	.1 U	.1 U	5 U
B(a)P Equivalent[3]	**0.20**	**0.12**	**0.12**	**0.12**	**5.8**
Volatile Organic Compounds					
Benzene	5	NS	NS	5 U	5 U
Ethylbenzene	700	NS	NS	5 U	5 U
Pesticides and PCB Compounds					
Heptachlor epoxide	0.2	NS	NS	.05 U	NS

Notes:

Blue Shading indicates an analyte exceeds remedial goal

B(a)P exceedance due to inclusion of ND values shown with blue dot pattern.

1 - Total SVOC - Total Semi volatile organic compounds

2 - cPAH Compounds - Carcinogenic Polycyclic Aromatic Hydrocarbons

3 - BaP equivalents - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ppb - parts per billion

NA - Not Applicable

ND - Not Detected

NS - Not Sampled

NC - Not Calculated

-- - No data available

J - The identification of the analyte is acceptable; the reported value is an estimate.

R - The data are rejected and considered unusable.

U - The analyte was not detected at or above the reporting limit.

Table 1-9a
Shallow Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)		CMW01S			MW01S			
			4/21/1998	2/10/2009	4/11/2010	4/21/1998	2/7/2009	2/7/2009	4/7/2010
		RSL Tapwater[3]	GW407C1S_042198	CMW01S_021009		GW402W1S_042198	MW01S_020709	MW901S_020709	
Total Metal Compounds									
Arsenic	**10**	0.045	6 U	10 U	3.80	4 U	12	6.7 J	0.42 J
Manganese	**300**	88	390	380	410	110	120	94	120

Notes:

Blue Shading indicates an analyte exceeds remedial goal

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit

Table 1-9a
Shallow Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)		MW02S			MW03S		
			4/21/1998	2/7/2009	4/7/2010	4/21/1998	2/10/2009	4/11/2010
		RSL Tapwater[3]	GW404W2S_042198	MW02S_020709		GW403W3S_042198	MW03S_021009	
Total Metal Compounds								
Arsenic	**10**	0.045	6 J	10 U	2.10	6 U	10 U	1.70
Manganese	**300**	88	80	83	100	280	270	220

Notes:

Blue Shading indicates an analyte exceeds remedial goal

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9a
Shallow Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)		MW04S			MW05S	MW06S		
			4/22/1998	2/9/2009	4/8/2010	4/22/1998	4/22/1998	2/9/2009	4/8/2010
		RSL Tapwater[3]	GW418W4S_042298	MW04S_020909		GW413W5S_042298	GW410W6S_042298	MW06S_020909	
Total Metal Compounds									
Arsenic	**10**	0.045	4 U	10 U	1.30	4 U	8 U	10 U	3.40
Manganese	**300**	88	23	18	52	1300	3800	1300	1300

Notes:

Blue Shading indicates an analyte exceeds remedial goal

ppb - parts per billion

J - The identification of the analyte is acceptable, the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Table 1-9a
Shallow Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)		MW08S			MW11S	MW12S	MW13S	MW14S
			4/21/1998	2/8/2009	4/9/2010	4/19/2010	4/19/2010	4/19/2010	4/28/2010
		RSL Tapwater[3]	GW408W8S_042198	MW08S_020809					
Total Metal Compounds									
Arsenic	**10**	0.045	4 U	13	0.87 J	0.87 J	1 U	0.46 J	0.17 J
Manganese	**300**	88	210	360	2000	160	13 J	360	76 J

Notes:

Blue Shading indicates an analyte exceeds remedial goal

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9a
Shallow Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)		MW22S	MWPBCI	SMW01S	
			4/29/2010	2/5/2009	2/4/2009	4/12/2010
		RSL Tapwater[3]		MWPBCI_020509	SMWS01_020409	
Total Metal Compounds						
Arsenic	**10**	0.045	2.60	12	13	1 U
Manganese	**300**	88	240 J	210	4.6 J	2.60 U,J

Notes:

Blue Shading indicates an analyte exceeds remedial goal

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	AFMW01I		AFMW03I	AFMW02I	CMW01I		
		2/7/2009	2/7/2009	2/8/2009	2/8/2009	4/22/1998	2/10/2009	4/11/2010
Total Metal Compounds								
Arsenic	**10**	8.6 J	7.5 J	10 U	10 U	4 U	10 U	1 U
Manganese	**300**	2.6 J	2.2 J	31	4.8 J	4 U	65	79
Nickel	**313**	3.1 J	2.4 J	14 J	1.9 J	NA	40 U	40 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	F15MWI		LMWI-1	MASMW01I	MASMW02I	MW01A	MW01I		
		2/6/2009	4/14/2010	4/12/2010	2/9/2009	2/9/2009	4/22/1998	4/21/1998	2/6/2009	4/9/2010
Total Metal Compounds										
Arsenic	**10**	5.3 J	0.22 J	1 U	10 U	10 U	12 J	6 U	10 U	0.59 J
Manganese	**300**	43	170	100	2.8 J	4.6 J	870	4 U	15 U	15 U
Nickel	**313**	1.6 J	2.60 U,J	3.50 U,J	2.6 J	19 J	NA	NA	1.1 J	40 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	MW02			MW02I			MW03A		
		4/22/1998	2/11/2009	4/13/2010	4/22/1998	2/5/2009	4/7/2010	4/22/1998	2/11/2009	4/14/2010
Total Metal Compounds										
Arsenic	**10**	4 U	10 U	1 U	4 U	4.5 J	3	4 J	10 U	3.50
Manganese	**300**	110	62	11 J	110	110	230	65	16	10 J
Nickel	**313**	NA	40 U	40 U	NA	4.3 J	3.20 UJ	NA	40 U	40 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	MW03B		MW03I			MW04A		
		2/6/2009	4/14/2010	4/22/1998	2/10/2009	4/11/2010	4/21/1998	2/7/2009	4/15/2010
Total Metal Compounds									
Arsenic	**10**	10	20	4 U	10 U	4.70	12	23	15
Manganese	**300**	230	280	80	140	170	290	410	490
Nickel	**313**	40 U	40 U	NA	40 U	40 U		.96 J	0.61 U,J

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable, the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	MW05I			MW06I			
		4/22/1998	2/11/2009	4/11/2010	4/22/1998	2/11/2009	2/11/2009	4/13/2010
Total Metal Compounds								
Arsenic	**10**	5 U	6 J	0.37 J	4 U	2.2 J	5.9 J	1 U
Manganese	**300**	100	140	150	3 U	1.6 J	1.4 J	0.43 U,J
Nickel	**313**	NA	40 U	40 U	NA	40 U	1.5 J	40 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	MW07I			MW09I		MW10I		MW11I	MW15I
		4/22/1998	2/11/2009	4/12/2010	2/11/2009	4/13/2010	2/9/2009	4/13/2010	4/19/2010	4/19/2010
Total Metal Compounds										
Arsenic	**10**	6 J	3.5 J	3.70	6.2 J	0.15 J	10 U	2.50	0.72 J	0.62 J
Manganese	**300**	74	150	150	33	140	1500	1100	190	17
Nickel	**313**	NA	2 J	0.92 U,J	2.1 J	1.50 U,J	40 U	40 U	7.20 J	6.30 J

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	MW16I 4/19/2010	MW17I 4/19/2010	MW18I 4/19/2010	MW19I 4/29/2010	MW20I 4/19/2010	MW21I 4/29/2010	MWPBCI 2/5/2009	MWPBEI 2/5/2009	MWPBEI 4/14/2010
Total Metal Compounds										
Arsenic	**10**	8	2.30	0.53 J	0.53 J	0.67 J	1	12	10 U	0.81 J
Manganese	**300**	88	89	65	42 J	40	39 J	210	2700	6100
Nickel	**313**	14 J	8.40 J	4.30 J	2.10 J	5.90 J	4.70 J	120	1.3 J	40 U

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	MWPBWI		PMW01I			SMWI01		SMW02I	
		2/5/2009	4/14/2010	2/9/2009	2/9/2009	4/14/2010	2/4/2009	4/12/2010	2/10/2009	4/12/2010
Total Metal Compounds										
Arsenic	**10**	10 U	1.60	10 U	4.7 J	0.59 J	10 U	0.99 J	10 U	4.70
Manganese	**300**	100	110	310	320	280	300	500	61	520
Nickel	**313**	2.1 J	40 U	20 J	21 J	39 J	29 J	1.70 U,J	360	9.20 J

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Table 1-9b
Intermediate Ground Water Sample Results: Inorganic Contaminants of Concern Summary
Camilla Wood Preserving Site
Camilla, Mitchell County, Georgia

	Remedial Goal (ppb)	SMW03I		TMW01I		TMW02I	
		2/10/2009	4/12/2010	2/7/2009	4/12/2010	2/8/2009	4/12/2010
Total Metal Compounds							
Arsenic	**10**	10 U	0.22 J	4.6 J	0.22 J	10 U	0.11 J
Manganese	**300**	570	46	4.2 J	1.20 U,J	1.6 J	15 U
Nickel	**313**	40 U	340	2.8 J	40 U	40 U	1 U,J

Notes:

Blue Shading indicates an analyte exceeds remedial goal

NA - Not analyzed

ppb - parts per billion

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit

Shallow Groundwater Sample Results 2015
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	CMW01S		MW01S		MW02S		MW03S		MW04S		MW04S		MW06S		MW08S		MW11S		MW12S	
			Sample Date	11/17/2015		11/13/2015		11/14/2015		11/18/2015		11/16/2015		11/16/2015		11/16/2015		11/17/2015		11/18/2015		11/14/2015	
			Sample Identification No.	CMW01S		MW01S		MW02S		MW03S		MW04S		MW904S		MW06S		MW08S		MW11S		MW12S	
Analysis	**Analyte**	**Units**	**Camilla REMEDIAL GOALS-GW**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics	2,4-Dimethylphenol	ug/L	313	5.0	U	5.0	U	5.0	U	5.0	U,J,O	5.0	U	5.0	U	5.0	U	7.5		5.0	U,J,O	5.0	U
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	19		NA		NA		NA		5.0	U	5.0	U	1.3	J,O	NA		50		75	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		4.2	J,O	NA		NA		NA		5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		1.6	J,O	NA		NA		NA		5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		3.2	J,O	NA		NA		NA		5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		1.5	J,O	NA		NA		NA		5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
Semi Volatile Organics	Chrysene	ug/L		4.7	J,O	NA		NA		NA		5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		5.0	U	NA		NA		NA		5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		5.0	U	NA		NA		NA		5.0	U	5.0	U	5.0	U	NA		5.0	U	5.0	U
	BaP Equivalent	ug/L	0.2	**Detected**		NA		NA		NA		ND		ND		ND		NA		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	57		10	U	10	U	13		10	U	10	U	6.5	J,O	19		38		15	
Semi Volatile Organics	Dibenzofuran	ug/L	31	40		5.0	U	5.0	U	20		5.0	U	5.0	U	38		6.4		79		31	
Semi Volatile Organics	Naphthalene	ug/L	156	330		NA		NA		200		5.0	U	5.0	U	12		45		170		130	J,O
Semi Volatile Organics	Pentachlorophenol	ug/L	1	10	U	NA		10	U	10	U	10	U	10	U	10	U	10		210	J,O	570	
Semi Volatile Organics	Phenanthrene	ug/L	469	45		NA		NA		11		5.0	U	5.0	U	69		NA		49		40	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		0.10	U	0.10	U	1.4		NA		NA		NA		0.66		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		0.10	U	0.10	U	0.14		NA		NA		NA		0.37		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		0.33		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		0.10	U	NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	NA		NA		NA		0.10	U,J,O	NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		0.10	U	0.10	U	0.093	J,O	NA		NA		NA		0.35		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		0.10	U	NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		0.31		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		ND		ND		NC		NA		NA		NA		**Detected**		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		0.20	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		0.10	U	0.10	U	NA		NA		NA		NA		1.1	J,O	NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Shallow Groundwater Sample Results 2015
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	MW13S		MW14S		MW22S		SMW01S	
			Sample Date	11/17/2015		11/13/2015		11/17/2015		11/13/2015	
			Sample Identification No.	MW13S		MW14S		MW22S		SMW01S	
Analysis	**Analyte**	**Units**	**Camilla REMEDIAL GOALS-GW**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA	
Semi Volatile Organics	2,4-Dimethylphenol	ug/L	313	5.0	U	NA		5.0	U	5.0	U
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	83	J,O	1.3	J,O	180	J,O	NA	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		3.5	J,O	NA		1.3	J,O	NA	
Semi Volatile Organics	Benzo(a)pyrene	ug/L		5.0	U	NA		5.0	U	NA	
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		2.2	J,O	NA		5.0	U	NA	
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		1.1	J,O	NA		5.0	U	NA	
Semi Volatile Organics	Chrysene	ug/L		3.7	J,O	NA		1.0	J,O	NA	
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		5.0	U	NA		5.0	U	NA	
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		5.0	U	NA		5.0	U	NA	
	BaP Equivalent	ug/L	0.2	**Detected**		NA		**Detected**		NA	
Semi Volatile Organics	Carbazole	ug/L	48	46		NA		500	J,O	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	83	J,O	NA		170	J,O	5.0	U
Semi Volatile Organics	Naphthalene	ug/L	156	410	J,O	22	J,O	7200		NA	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	3800		2200	J,O	47	J,O	NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	160	J,O	1.1	J,O	120	J,O	NA	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		0.10	U
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		0.10	U
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		0.10	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		0.10	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		0.10	U,J,O
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		0.10	U
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		0.10	U
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		0.10	U
	BaP Equivalent	ug/L	0.2	NA		NA		NA		ND	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		0.10	U
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		0.20	U
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		0.10	U
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	AFMW01I		AFMW01I		AFMW01I		AFMW01I		AFMW01I		AFMW01I		AFMW01I		AFMW02I		AFMW02I	
			Sample Date	8/10/2014		1/14/2015		1/14/2015		4/14/2015		4/14/2015		7/22/2015		11/11/2015		2/20/2016		8/10/2014		1/13/2015	
			Sample Identification No.	AFMW01I		AFMW-01I		AFMW-901I		AFMW-01I		AFMW-901I		AFMW01I		AFMW01I		AFMW01I		AFMW02I		AFMW-02I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		1	U	1	U	1	U	1	U	NA		NA		NA		NA		1	U
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Acenaphthene	ug/L	469	10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Benzo(a)pyrene	ug/L		10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Chrysene	ug/L		10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
	BaP Equivalent	ug/L	0.2	ND		NA		NA		NA		NA		NA		NA		ND		ND		NA	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	10	U	10	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Fluorene	ug/L	313	10	U	NA		NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics	Naphthalene	ug/L	156	10	U	NA		NA		NA		NA		NA		NA		NA		0.84	J	10	U	NA	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	25	U	NA		NA		NA		NA		NA		NA		NA		10	U	25	U	NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	10	U	NA		NA		NA		NA		NA		NA		NA		5	U	10	U	NA	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.10	U	0.10	U	0.11		NA		0.5	U
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.16		0.10	U	0.011	J	NA		0.5	U
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		0.05	U	0.05	U	0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		0.05	U	0.05	U	0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		0.1	U	0.1	U	0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		0.05	U	0.05	U	0.05	U	0.05	U	0.10	U	0.10	U,J,O	0.1	U	NA		0.05	U
Semi Volatile Organics SIM	Chrysene	ug/L		NA		0.05	U	0.05	U	0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		0.1	U	0.1	U	0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		0.05	U	0.05	U	0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.11	
	BaP Equivalent	ug/L	0.2			ND		ND		ND		ND		ND		ND		ND		NA		**Detected**	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		0.1	U	0.1	U	0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.026	J,O	0.19	J,O	0.72		NA		0.5	U
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		0.11	J,O	0.20	U	0.17	J	NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		0.05	U	0.05	U	0.05	U	0.05	U	0.10	U	0.10		0.1	U	NA		0.05	U
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	AFMW02I		AFMW02I		AFMW02I		AFMW02I		AFMW03I		AFMW03I		AFMW03I		AFMW03I		AFMW03I		AFMW03I	
			Sample Date	4/14/2015		7/23/2015		11/11/2015		2/18/2016		8/9/2014		1/14/2015		4/14/2015		7/22/2015		11/13/2015		2/18/2016	
			Sample Identification No.	AFMW-02I		AFMW02I		AFMW02I		AFMW02I		AFMW03I		AFMW-03I		AFMW-03I		AFMW03I		AFMW03I		AFMW03I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	1.0	U	NA		NA		NA		NA		1.0	U	1.0	U	NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Chrysene	ug/L		NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
	BaP Equivalent	ug/L	0.2	NA		NA		NA		ND		ND		NA		NA		NA		NA		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	10	U	5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Fluorene	ug/L	313	NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Naphthalene	ug/L	156	NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics	Pentachlorophenol	ug/L	1	NA		NA		NA		10	U	25	U	NA		NA		NA		10	U	10	U
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		NA		NA		5	U	10	U	NA		NA		NA		NA		5	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	0.5	U	0.10	U	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.039	J,O	0.10	U	0.1	U
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	0.5	U	0.10	U	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.10	U	0.10	U,J,O	0.1	U
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U,J,O	0.1	U
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		0.05	U	0.10	U	0.10	U,J,O	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U,J,O	0.1	U
Semi Volatile Organics SIM	Chrysene	ug/L		0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U
	BaP Equivalent	ug/L	0.2	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND	
Semi Volatile Organics SIM	Fluorene	ug/L	313	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U
Semi Volatile Organics SIM	Naphthalene	ug/L	156	0.5	U	0.032	J,O	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.046	J,O	0.10	U	0.1	U
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		0.20	U,J,O	0.20	U	0.11	J	NA		NA		NA		0.20	U,J,O	NA		0.081	J
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected. PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	AFMW04D		AFMW04D		AFMW04D		AFMW04D		AFMW04D		AFMW04D		AFMW05I		AFMW05I		AFMW05I		AFMW05I		AFMW05I	
			Sample Date	8/10/2014		1/12/2015		4/14/2015		7/22/2015		11/12/2015		2/19/2016		8/9/2014		1/13/2015		4/14/2015		7/22/2015		11/13/2015	
			Sample Identification No.	AFMW04		AFMW-04D		AFMW-04D		AFMW04D		AFMW04D		AFMW04D		AFMW05I		AFMW-05I		AFMW-05I		AFMW05I		AFMW05I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		1	U	1	U	NA		NA		NA		NA		1	U	1	U	NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Acenaphthene	ug/L	469	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Benzo(a)pyrene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Chrysene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	ND		NA		NA		NA		NA		ND		ND		NA		NA		NA		NA	
Semi Volatile Organics	Carbazole	ug/L	46	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	10	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	5.0	U
Semi Volatile Organics	Fluorene	ug/L	313	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Naphthalene	ug/L	156	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	25	U	NA		NA		NA		NA		10	U	25	U	NA		NA		NA		10	U
Semi Volatile Organics	Phenanthrene	ug/L	469	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA		NA	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		0.5	U	0.5	U	0.10	U	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.048	J,O	0.10	U
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		0.5	U	0.5	U	0.10	U	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.036	J,O	0.10	U J,O
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U J,O
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U J,O	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U J,O
Semi Volatile Organics SIM	Chrysene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U
	BaP Equivalent	ug/L	0.2	NA		ND		ND		ND		ND		ND		NA		ND		ND		ND		ND	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		0.5	U	0.5	U	0.025	J,O	0.10	J,O	0.1	U	NA		0.5	U	0.5	U	0.077	J,O	0.28	J,O
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		0.034	J,O	0.20	U	0.2	U	NA		NA		NA		0.088	J,O	NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.022	J,O	0.10	U
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		0.05	U	0.05	U	NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		1.0	U	0.15	J,O
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		0.015	U	0.0194		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		9.3		1.8	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		0.02	U	0.0273		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		10	U	1.9	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location		AFMW05I		AFMW05I		AFMW06I		AFMW06I		AFMW06I		AFMW06I		AFMW06I		AFMW06I		AFMW06I	
		Sample Date		11/13/2015		2/19/2016		8/9/2014		1/14/2015		4/14/2015		7/21/2015		7/21/2015		11/13/2015		2/19/2016		2/19/2016	
		Sample Identification No.		AFMW05I		AFMW05I		AFMW06I		AFMW-06I		AFMW-06I		AFMW06I		AFMW906I		AFMW06I		AFMW06I		AFMW906I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		10		10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Chrysene	ug/L		NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
	BaP Equivalent	ug/L	0.2	NA		ND		ND		NA		NA		NA		NA		NA		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	5.0	U	5	U	10	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Fluorene	ug/L	313	NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Naphthalene	ug/L	156	NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics	Pentachlorophenol	ug/L	1	10	U	10	U	25	U	NA		NA		NA		NA		10	U	10	U	10	U
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		5	U	10	U	NA		NA		NA		NA		NA		5	U	5	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.10	U	0.077	J,O	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	0.10	U,J,O	0.1	U	NA		0.5	U	0.5	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		0.10	U,J,O	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		0.10	U	0.1	U	NA		0.05	U	0.05	U	0.075	J,O	0.10	U	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		0.10	U,J,O	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.10	U,J,O	0.1	U	0.1	U
Semi Volatile Organics SIM	Chrysene	ug/L		0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U
	BaP Equivalent	ug/L	0.2	ND		ND		NA		ND		ND		**Detected**		ND		ND		ND		ND	
Semi Volatile Organics SIM	Fluorene	ug/L	313	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Naphthalene	ug/L	156	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.024	J,O	0.055	J,O	0.10	U	0.1	U	0.1	U
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		0.047	J	NA		NA		NA		0.021	J,O	0.021	J,O	NA		0.2	U	0.2	U
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U	0.046	J,O	0.10	U	0.1	U	0.1	U
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		0.05	U	0.05	U	NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	0.14	J,O	1	U	NA		NA		NA		1.0	U	1.0	U	0.080	J,O	1	U	1	U
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		0.015	U	0.015	U	NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	1.9		1.2	J	NA		NA		NA		5.0	U	5.0	U	0.72	J,O	5	U	5	U
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		0.02	U	0.02	U	NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	2.2		1.8	J	NA		NA		NA		16		16		6.0	J,O	3.6	J	3.5	J

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	AFMW071		AFMW071		AFMW071		AFMW071		AFMW071		AFMW071		AFMW08I		AFMW08I		AFMW08I		AFMW08I	
			Sample Date	8/9/2014		1/14/2015		4/14/2015		7/21/2015		11/12/2015		2/19/2016		8/10/2014		1/13/2015		4/14/2015		7/22/2015	
			Sample Identification No.	AFMW071		AFMW-071		AFMW-071		AFMW071		AFMW071		AFMW071		AFMW08I		AFMW-08I		AFMW-08I		AFMW08I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		1	U	1	U	NA		NA		NA		NA		1	U	1	U	NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Acenaphthene	ug/L	469	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Benzo(a)pyrene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Chrysene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
	BaP Equivalent	ug/L	0.2	ND		NA		NA		NA		NA		ND		ND		NA		NA		NA	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	10	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U
Semi Volatile Organics	Fluorene	ug/L	313	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Naphthalene	ug/L	156	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	25	U	NA		NA		NA		10	U	10	U	25	U	NA		NA		NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	10	U	NA		NA		NA		NA		5	U	10	U	NA		NA		NA	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		0.5	U	0.5	U	0.037	J,O	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.10	U
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		0.5	U	0.5	U	0.10	U	0.10	U,J,O	0.1	U	NA		0.5	U	0.5	U	0.087	J,O
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U,J,O	0.1	U	NA		0.05	U	0.05	U	0.10	U
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		0.05	U	0.05	U	0.080	J,O	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U,J,O	0.1	U	NA		0.05	U	0.05	U	0.10	U
Semi Volatile Organics SIM	Chrysene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U
	BaP Equivalent	ug/L	0.2	NA		ND		ND		Detected		ND		ND		NA		ND		ND		ND	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		0.1	U	0.1	U	0.10	U	0.10	U	0.1	U	NA		0.1	U	0.1	U	0.10	U
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		0.5	U	0.5	U	0.054	J,O	0.10	U	0.1	U	NA		0.5	U	0.5	U	0.033	J,O
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		0.021	J,O	NA		0.2	U	NA		NA		NA		0.096	J,O
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		0.05	U	0.05	U	0.10	U	0.10	U	0.1	U	NA		0.05	U	0.05	U	0.10	U
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	AFMW08I		AFMW08I		CMW01I		CMW01I		CMW01I		CMW01I		CMW01I		CMW01I		EW01	
			Sample Date	11/11/2015		2/19/2016		1/13/2015		4/14/2015		7/25/2015		7/25/2015		11/15/2015		11/15/2015		2/20/2016		7/29/2014	
			Sample Identification No.	AFMW08I		AFMW08I		CMW-01I		CMW-01I		CMW01J		CMW901J		CMW01J		CMW901J		CMW01J		EW01	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		98		96		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U,J,O	5.0	U,J,O	5	U	26	
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Chrysene	ug/L		NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		5	U	10	U	10	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	10	U
	BaP Equivalent	ug/L	0.2	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	10	U	10	U	5.1	J,O	4.7	J,O	2.0	J,O	3.3	J,O	1.6	J	21	
Semi Volatile Organics	Dibenzofuran	ug/L	31	5.0	U	5	U	10	U	10	U	3.8	J,O	3.6	J,O	5.0	U	5.0	U	1.2	J	9.8	
Semi Volatile Organics	Fluorene	ug/L	313	NA		5	U	10	U	10	U	0.73	J,O	0.67	J,O	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Naphthalene	ug/L	156	NA		5	U	10	U	10	U	2.4	J,O	0.96	J,O	1.5	J,O	1.7	J,O	0.64	J	140	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	10	U	10	U	NA		NA		85	J,O	90	J,O	98		97		94		4000	
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		5	U	10	U	10	U	1.4	J,O	1.3	J,O	1.3	J,O	1.3	J,O	0.42	J	8.9	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	0.10	U	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	0.15	J,O	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		0.10	U,J,O	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		0.10	U	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		0.10	U	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		0.10	U,J,O	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		0.10	U	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		0.10	U	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		0.10	U	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	ND		ND		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	0.11	U,O	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	0.41	J,O	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		0.2	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	0.14	J,O	0.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	EW-02		F15MW1		F15MW1		IW01A		IW02A		IW03B		IW04A		IW04B		IW05A		IW06A		IW06A		IW06B	
			Sample Date	8/7/2014		11/12/2015		11/12/2015		7/27/2014		7/27/2014		7/28/2014		7/28/2014		7/28/2014		8/8/2014		7/30/2014		7/26/2015		7/30/2014	
			Sample Identification No.	EW02		F15MW1		F15MW1		IW01A		IW02A		IW03B		IW04A		IW04B		IW05A		IW06A		IW06A		IW06B	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	130		NA		NA		1	U	1	U	5	U	67		97		5	U	24		NA		45	
Semi Volatile Organics	Acenaphthene	ug/L	469	12		NA		NA		1	U	1	U	5	U	49		66		5	U	8.2		NA		5	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		5	U	NA		NA		1	U	1	U	5	U	5	U	5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		5	U	NA		NA		1	U	1	U	5	U	5	U	5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		5	U	NA		NA		1	U	1	U	5	U	5	U	5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		5	U	NA		NA		1	U	1	U	5	U	5	U	5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Chrysene	ug/L		5	U	NA		NA		1	U	1	U	5	U	5	U	5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	NA		NA		2	U	2	U	10	U	10	U	10	U	10	U	10	U	NA		10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	NA		NA		2	U	2	U	10	U	10	U	10	U	10	U	10	U	NA		10	U
	BaP Equivalent	ug/L	0.2	ND		NA		NA		ND		ND		ND		ND		ND		ND		ND		NA		ND	
Semi Volatile Organics	Carbazole	ug/L	48	76		10	U	10	U	2	U	2	U	10	U	56		42		24		10	U	NA		41	
Semi Volatile Organics	Dibenzofuran	ug/L	31	25		5.0	U	5.0	U	2	U	1.5		10	U	18		27		14		14		NA		15	
Semi Volatile Organics	Fluorene	ug/L	313	16		NA		NA		1	U	1	U	5	U	18		26		23		11		NA		10	
Semi Volatile Organics	Naphthalene	ug/L	156	460		NA		NA		1	U	1	U	5	U	360		350		5	U	140		NA		310	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	9900		NA		10	U	7.6		200		25	U	1700		320		450		27		NA		260	
Semi Volatile Organics	Phenanthrene	ug/L	469	22		NA		NA		1	U	1.1		5	U	27		34		9.5		9.8		NA		12	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		0.10	U	0.10	U,J,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		0.10	U	0.10	U,J,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		0.10	U,J,O	0.10	U,J,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		ND		ND		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		0.19	J,O	0.12	J,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		0.20	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligrams per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location	IW06B		IW07A		IW07A		IW07B		IW07B		IW08A		IW08A		IW08B		IW08B		IW09A		IW09A		IW09B	
		Sample Date	7/26/2015		7/30/2014		7/26/2015		7/30/2014		7/26/2015		7/28/2014		7/26/2015		7/28/2014		7/26/2015		7/29/2014		7/29/2014		7/29/2014	
		Sample Identification No.	IW06B		IW07A		IW07A		IW07B		IW07B		IW08A		IW08A		IW08B		IW08B		IW09A		IW09A		IW09B	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		5	U	NA		5	U	NA		68		NA		55		NA		10		11		6.5	
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		5	U	NA		5.3		NA		5	U	NA		1	U	NA		5	U	5	U	5	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		1	U	NA		5	U	5	U	5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		1.1		NA		5	U	5	U	5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		1	U	NA		5	U	5	U	5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		1	U	NA		5	U	5	U	5	U
Semi Volatile Organics	Chrysene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		1	U	NA		5	U	5	U	5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		10	U	NA		10	U	NA		10	U	NA		2	U	NA		10	U	10	U	10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		10	U	NA		10	U	NA		10	U	NA		2	U	NA		10	U	10	U	10	U
	BaP Equivalent	ug/L	0.2	NA		ND		NA		ND		NA		ND		NA		**Detected**		NA		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	NA		10	U	NA		12		NA		16		NA		38		NA		10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	NA		10	U	NA		16		NA		10	U	NA		16		NA		13		14		10	U
Semi Volatile Organics	Fluorene	ug/L	313	NA		5	U	NA		6.3		NA		5	U	NA		1.5		NA		5	U	5	U	5	U
Semi Volatile Organics	Naphthalene	ug/L	156	NA		5	U	NA		33		NA		170		NA		130		NA		41		45		38	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	NA		250		NA		3200		NA		3500		NA		7100		NA		880		1000		290	
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		5	U	NA		6.7		NA		19		NA		11		NA		16		16		5	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

DRAFT

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	IW10A		IW11A		IW11A		IW11A		IW11B		IW11B		IW12A		IW12A		IW12B		IW12B		IW12C		IW12C	
			Sample Date	8/8/2014		8/5/2014		8/5/2014		7/26/2015		8/5/2014		7/26/2015		8/8/2014		7/26/2015		8/5/2014		7/26/2015		8/5/2014		7/26/2015	
			Sample Identification No.	IW10A		IW11A		IW911A		IW11A		IW11B		IW11B		IW12A		IW12A		IW12B		IW12B		IW12C		IW12C	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	5	U	120		89		NA		6.6		NA		190		NA		98		NA		6.4		NA	
Semi Volatile Organics	Acenaphthene	ug/L	469	5	U	48		5	U	NA		6.8		NA		54		NA		21		NA		5	U	NA	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		5	U	5	U	5	U	NA		5	U	NA		5	U	NA		24		NA		5	U	NA	
Semi Volatile Organics	Benzo(a)pyrene	ug/L		5	U	5	U	5	U	NA		5	U	NA		5	U	NA		18		NA		5	U	NA	
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		5	U	5	U	5	U	NA		5	U	NA		5	U	NA		27		NA		5	U	NA	
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		5	U	5	U	5	U	NA		5	U	NA		5	U	NA		26		NA		5	U	NA	
Semi Volatile Organics	Chrysene	ug/L		5	U	5	U	5	U	NA		5	U	NA		5	U	NA		26		NA		5	U	NA	
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	10	U	10	U	NA		10	U	NA		10	U	NA		23		NA		10	U	NA	
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	10	U	10	U	NA		10	U	NA		10	U	NA		22		NA		10	U	NA	
	BaP Equivalent	ug/L	0.2	ND		ND		ND		NA		ND		NA		ND		NA		**Detected**		NA		ND		NA	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	130		95		NA		10	U	NA		87		NA		48		NA		8.9		NA	
Semi Volatile Organics	Dibenzofuran	ug/L	31	7.1		42		30	J	NA		9		NA		38		NA		46		NA		10		NA	
Semi Volatile Organics	Fluorene	ug/L	313	5	U	5	U	6.2		NA		13		NA		27		NA		33		NA		5	U	NA	
Semi Volatile Organics	Naphthalene	ug/L	156	8.8		580		470		NA		69		NA		430		NA		310		NA		35		NA	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	1200		6000	J	3500		NA		57		NA		3000		NA		1800		NA		4900		NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	5.9		39		27	J	NA		6.6		NA		24		NA		35		NA		5	U	NA	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location		IW12C		IW13A		IW13A		IW13B		IW13B		IW13C		IW13C		IW15A		IW15B		IW16A		IW17A		IW17B	
		Sample Date		7/26/2015		8/8/2014		7/26/2015		7/29/2014		7/26/2015		7/29/2014		7/26/2015		7/29/2014		7/29/2014		8/12/2014		7/26/2015		8/8/2014	
		Sample Identification No.		IW912C		IW13A		IW13A		IW13B		IW13B		IW13C		IW13C		IW15A		IW15B		IW16A		IW17A		IW17B	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		130		NA		180		NA		48		NA		5	U	5	U	17		NA		24	
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		25		NA		5	U	NA		19		NA		5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Chrysene	ug/L		NA		5	U	NA		5	U	NA		5	U	NA		5	U	5	U	5	U	NA		5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		10	U	NA		10	U	NA		10	U	NA		10	U	10	U	10	U	NA		10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		10	U	NA		10	U	NA		10	U	NA		10	U	10	U	10	U	NA		10	U
	BaP Equivalent	ug/L	0.2	NA		ND		NA		ND		NA		ND		NA		ND		ND		ND		NA		ND	
Semi Volatile Organics	Carbazole	ug/L	48	NA		67		NA		110		NA		42		NA		10	U	10	U	10	U	NA		33	
Semi Volatile Organics	Dibenzofuran	ug/L	31	NA		33		NA		39		NA		12		NA		10	U	10	U	12		NA		10	
Semi Volatile Organics	Fluorene	ug/L	313	NA		16		NA		8.6		NA		5	U	NA		5	U	5	U	5	U	NA		16	
Semi Volatile Organics	Naphthalene	ug/L	156	NA		410		NA		890		NA		240		NA		5	U	5	U	94		NA		130	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	NA		3500		NA		15000		NA		12000		NA		25	U	300		1100		NA		500	
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		36		NA		34		NA		9.5		NA		5	U	5	U	18		NA		5.8	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	IW17B		IW18A		IW18B		IW18B		IW19A		IW19B		IW20A		IW20-B		IW21-A		IW22-A		LMW1		MASMW01I	
			Sample Date	7/28/2015		8/12/2014		8/12/2014		8/12/2014		8/12/2014		8/12/2014		7/29/2014		7/29/2014		8/12/2014		8/12/2014		11/12/2015		11/14/2015	
			Sample Identification No.	IW17B		IW91BA		IW18A		IW18B		IW19A		IW19B		IW20A		IW20B		IW21A		IW22A		LMW1		MASMW01I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		25	U	5	U	5	U	5	U	500	U	5	U	21		5	U	5	U	NA		NA	
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		25	U	5	U	5	U	5	U	500	U	31		8.6		5	U	5	U	NA		NA	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		25	U	5	U	5	U	5	U	500	U	5	U	5	U	5	U	5	U	NA		NA	
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		25	U	5	U	5	U	5	U	500	U	5	U	5	U	5	U	5	U	NA		NA	
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		25	U	5	U	5	U	5	U	500	U	5	U	5	U	5	U	5	U	NA		NA	
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		25	U	5	U	5	U	5	U	500	U	5	U	5	U	5	U	5	U	NA		NA	
Semi Volatile Organics	Chrysene	ug/L		NA		25	U	5	U	5	U	5	U	500	U	5	U	5	U	5	U	5	U	NA		NA	
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		50	U	10	U	10	U	10	U	1000	U	10	U	10	U	10	U	10	U	NA		NA	
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		50	U	10	U	10	U	10	U	1000	U	10	U	10	U	10	U	10	U	NA		NA	
	BaP Equivalent	ug/L	0.2	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		NA		NA	
Semi Volatile Organics	Carbazole	ug/L	48	NA		50	U	37		41		34		1000	U	9.1		10	U	25		11		10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	NA		50	U	26		9.4		19		1000	U	24		8.2		17		9.2		5.0	U	5.0	U
Semi Volatile Organics	Fluorene	ug/L	313	NA		25	U	8.1		26		11		500	U	34		6.3		5	U	5	U	NA		NA	
Semi Volatile Organics	Naphthalene	ug/L	156	NA		310	J	490		91		330		500	U	110		45		250		73		NA		NA	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	NA		580	J	870	J	2800		2200	J	13000		1300		1200		2700		880		NA		10	U
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		25	U	33		7.8		28		500	U	38		13		17		11		NA		NA	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.18		0.10	U
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U,J,O	0.10	U,J,O
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		ND		ND	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.080	J,O	0.10	U
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.20	U	NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location		MASMW02I		MW01I		MW02I		MW03A		MW03B		MW03I		MW04A		MW05I		MW06I		MW07I		MW09I		MW11I	
		Sample Date		11/14/2015		11/13/2015		11/13/2015		11/16/2015		11/18/2015		11/17/2015		11/17/2015		11/15/2015		11/16/2015		11/15/2015		11/15/2015		1/12/2015	
		Sample Identification No.		MASMW02I		MW01I		MW02I		MW03A		MW03B		MW03I		MW04A		MW05I		MW06I		MW07I		MW09I		MW-11I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		4900	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		NA		26		NA		NA		NA		NA		5.0	U,J,O	NA		NA		5.0	U,J,O	230	
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		NA		150		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	45	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	10	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	10	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	10	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	10	U
Semi Volatile Organics	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	10	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		5.0	U	NA		NA		5.0	U	10	U
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		ND		NA		NA		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	25		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	120	
Semi Volatile Organics	Dibenzofuran	ug/L	31	5.0	U	5.0	U	26		5.0	U	5.0	U	5.0	U	27		5.0	U	5.0	U	5.0	U	5.0	U	58	
Semi Volatile Organics	Fluorene	ug/L	313	NA		NA		23		NA		NA		NA		15		5.0	U	NA		NA		5.0	U	26	
Semi Volatile Organics	Naphthalene	ug/L	156	NA		NA		160		42		NA		NA		470	J,O	5.0	U	NA		NA		5.0	U	1000	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	10	U	10	U	NA		NA		NA		10	U	10	U	10	U	10	U	10	U	10	U	NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		NA		8.4		NA		NA		NA		20	J,O	5.0	U	NA		NA		5.0	U	55	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	0.10	U	0.10	U	NA		0.71		0.10	U	0.10	U	19	J,O	NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	0.10	U	0.10	U	NA		3.1	J,O	0.10	U	1.2		19	J,O	NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		0.10	U	0.10	U	0.12	J,O	0.15		0.10	U	0.14		0.10	U	NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	NA		0.10	U,J,O	0.10	U,J,O	NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		0.10	U	0.10	U	0.10	U	0.16		0.10	U	0.13		0.10	U	NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U,J,O	NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U,J,O	NA		0.10	U	0.10	U	NA		NA	
	BaP Equivalent	ug/L	0.2	ND		ND		**Detected**		**Detected**		ND		**Detected**		ND				ND		ND		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	0.10	U	0.10	U	NA		1.4		0.10	U	0.12	U,O	NA		NA		0.13	U,O	0.10	U	NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	0.10	U	0.10	U	NA		NA		0.16	J,O	0.10	U	NA		NA		0.10	U	0.10	U	NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		0.20	U	0.56	J,O	0.17	J,O	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	0.10	U	0.10	U	NA		2.4	J,O	0.10	U	0.10	U	NA		NA		0.21	J,O	0.10	U	NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	MW11I		MW11I		MW11I		MW13J		MW15I		MW16I		MW18I		MW18I		MW18I		MW18I		MW18I		MW18I	
			Sample Date	4/15/2015		7/24/2015		11/15/2015		2/20/2016		11/16/2015		11/17/2015		1/15/2015		1/15/2015		4/15/2015		7/25/2015		11/14/2015		2/20/2016	
			Sample Identification No.	MW-11I		MW11I		MW11I		MW11J		MW15I		MW16I		MW-18I		MW-918I		MW-18I		MW18I		MW18I		MW18I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	6600		NA		NA		NA		NA		NA		930		1000		870		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	170		180		150	J,O	130		NA		93	J,O	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Acenaphthene	ug/L	469	49		23		49		35		NA		68		10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		10	U	5.0	U	5.0	U	5	U	NA		5.0	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		10	U	5.0	U	5.0	U	5	U	NA		5.0	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		10	U	5.0	U	5.0	U	5	U	NA		5.0	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		10	U	5.0	U	5.0	U	5	U	NA		5.0	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Chrysene	ug/L		10	U	5.0	U	5.0	U	5	U	NA		5.0	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	5.0	U	5.0	U	5	U	NA		5.0	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	5.0	U	5.0	U	5	U	NA		5.0	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U
	BaP Equivalent	ug/L	0.2	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	120		78		170	J,O	92		10	U	56		10	U	10	U	10	U	1.9	J,O	2.0	J,O	1.4	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	60		30		60		39		5.0	U	60		11		12		14		9.2		10	U	5.5	
Semi Volatile Organics	Fluorene	ug/L	313	27		17		29		5	U	NA		42		10	U	10	U	10	U	5.9		6.2		4	U
Semi Volatile Organics	Naphthalene	ug/L	156	880		880		1200		800		NA		2300		10	U	10	U	10	U	5.0	U	5.0	U	0.46	J
Semi Volatile Organics	Pentachlorophenol	ug/L	1	NA		4800		5400	J,O	3800		10	U	10	U	NA		NA		NA		800		2300		780	
Semi Volatile Organics	Phenanthrene	ug/L	469	49		26		58		50		NA		26		10	U	10		12		9.0		8.5		6.7	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		0.31		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		0.10	U,J,O	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		ND		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		0.15	J,O	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		0.33	J,O	NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.05	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location	MW18I		MW19I		MW20I		MW21I		MW23I		MW26A		MW26A		MW26A		MW26A		MW26A		MW26B		MW26B	
		Sample Date	2/20/2016		11/14/2015		11/13/2015		11/15/2015		11/16/2015		1/15/2015		4/16/2015		7/24/2015		11/19/2015		2/22/2016		1/15/2015		4/16/2015	
		Sample Identification No.	MW18I		MW19I		MW20I		MW21I		MW23I		MW-26A		MW-26A		MW26A		MW26A		MW26A		MW-26B		MW-26B	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		670		890		NA		NA		NA		580		1800	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	10	U	NA		NA		NA		5.0	U	180		240		140		230		160		200		200	
Semi Volatile Organics	Acenaphthene	ug/L	469	10	U	NA		31		NA		5.0	U	69		82		40		68		40		57		66	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		10	U	NA		NA		NA		5.0	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		10	U	NA		NA		NA		5.0	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		10	U	NA		NA		NA		5.0	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		10	U	NA		NA		NA		5.0	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Chrysene	ug/L		10	U	NA		NA		NA		5.0	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	NA		NA		NA		5.0	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	NA		NA		NA		5.0	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
	BaP Equivalent	ug/L	0.2	ND		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	1.4	J	10	U	10	U	10	U	10	U	95		130		92		120		85		120		140	
Semi Volatile Organics	Dibenzofuran	ug/L	31	8.2	J	5.0	U	5.0	U	5.0	U	5.0	U	55		63		35		59		40		60		65	
Semi Volatile Organics	Fluorene	ug/L	313	5.4	J	NA		NA		NA		5.0	U	53		61		36		52		11		35		42	
Semi Volatile Organics	Naphthalene	ug/L	156	10	U	NA		NA		NA		5.0	U	670		1000		570		1200		690		930		870	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	950		10	U	35	J,D	10	U	10	U	NA		NA		590		870		520		NA		NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	7.4	J	NA		NA		NA		5.0	U	62		79		39		69		56		64		71	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		0.10	U	NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		ND		ND		ND		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	MW26B		MW26B		MW26B		MW26C		MW26C		MW26C		MW26C		MW26C		MW26D		MW26D		MW26D	
			Sample Date	7/24/2015		11/15/2015		2/22/2016		1/15/2015		4/16/2015		4/16/2015		7/24/2015		11/19/2015		2/21/2016		1/14/2015		4/16/2015		7/24/2015	
			Sample Identification No.	MW26B		MW26B		MW26B		MW-26C		MW-26C		MW-926C		MW26C		MW26C		MW26C		MW-26D		MW-26D		MW26D	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		3700		1000		1100		NA		NA		NA		10	U	1		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	150		180	J,O	120		140		130		120		66		72		32		10	U	10	U	5.0	U
Semi Volatile Organics	Acenaphthene	ug/L	469	24		47		36		10	U	10	U	10	U	6.8		5.0	U	3.5	J	10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	5.0	U,J,O	5	U	10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	NA		5	U	10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	NA		5	U	10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	NA		5	U	10	U	10	U	5.0	U
Semi Volatile Organics	Chrysene	ug/L		5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	5.0	U,J,O	5	U	10	U	10	U	5.0	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	NA		5	U	10	U	10	U	5.0	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		5.0	U	5.0	U	5	U	10	U	10	U	10	U	5.0	U	NA		5	U	10	U	10	U	5.0	U
	BaP Equivalent	ug/L	0.2	ND		ND		ND		ND		ND		ND		ND		NA		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	98		150		87		73		19	J	21	J	56		5.5	J,O	35		10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	36		45		43		47		39		32		22		26		12		10	U	10	U	2.9	J,O
Semi Volatile Organics	Fluorene	ug/L	313	26		32		13		10	U	13		12		9.0		5.5		3.7	J	10	U	10	U	5.0	U
Semi Volatile Organics	Naphthalene	ug/L	156	680		780		260		690		580		580		300		430		95		10	U	10	U	5.0	U
Semi Volatile Organics	Pentachlorophenol	ug/L	1	2400		5200		5000		NA		NA		NA		430	J,O	NA		1800		NA		NA		3.7	J,O
Semi Volatile Organics	Phenanthrene	ug/L	469	40		51		48		26		37		35		21		28	J,O	22		10	U	10	U	5.0	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.05	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligrams per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location	MW26D		MW26D		MW27I		MW28I		MW29I		MW30D		MW30D		MW30D		MW30D		MW30D		MW31I		MW31I	
		Sample Date	11/19/2015		2/21/2016		11/13/2015		11/13/2015		11/17/2015		1/14/2015		4/16/2015		7/24/2015		11/18/2015		2/20/2016		1/13/2015		4/15/2015	
		Sample Identification No.	MW26D		MW26D		MW27I		MW28I		MW29I		MW-30D		MW-30D		MW30D		MW30D		MW30D		MW-31I		MW-31I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		240		210		NA		NA		NA		1	U	21	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		5	U	90	J,O	NA		NA		12		69		62		42		6.4		10	U	10	U
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		5	U	180		NA		NA		13		33		26		30		6.7		10	U	10	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		5	U	NA		NA		NA		10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		5	U	NA		NA		NA		10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		5	U	NA		NA		NA		10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		5	U	NA		NA		NA		10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Chrysene	ug/L		NA		5	U	NA		NA		NA		10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		5	U	NA		NA		NA		10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		5	U	NA		NA		NA		10	U	10	U	5.0	U	5.0	U	5	U	10	U	10	U
	BaP Equivalent	ug/L	0.2	NA		ND		NA		NA		NA		ND		ND		ND		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	130		2.7	J,O	10	U	16		44		39		37		8.1	J	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	6.5		5.3		78		100	J,O	5.0	U	10	U	17		16		13		2.5	J	10	U	10	U
Semi Volatile Organics	Fluorene	ug/L	313	NA		5	U	76		46		NA		10	U	20		21		22		5	U	10	U	10	U
Semi Volatile Organics	Naphthalene	ug/L	156	NA		5	U	1500		NA		NA		35		380		290		270		25		10	U	10	U
Semi Volatile Organics	Pentachlorophenol	ug/L	1	4.9	J,O	1.6	J	NA		10	U	10	U	NA		NA		93	J,O	59		9.3	J	NA		NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		5	U	12		NA		NA		10	U	12		12		12		2.9	J	10	U	10	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	0.10	U	NA		NA		0.27		0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	0.10	U	NA		NA		14	J,O	0.37		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		0.10	U	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		0.10	U	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		0.10	U	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		0.10	U,J,O	NA		0.10	U,J,O	0.10	U,J,O	0.10	U,J,O	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		0.10	U	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		0.10	U	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		0.10	U	NA		0.10	U	0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	ND		NA		ND		ND		ND		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	0.11	U,O	NA		NA		NA		0.38		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	0.10	U	NA		NA		3.0	J,O	0.13	J,O	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		0.20	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	0.10	U	NA		NA		0.73	J,O	0.15	J,O	NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	MW31I		MW31I		MW31I		MW32D		MW33D		MW34D		MW34D		MW35D		MW35D		MW35D		MW35D		MW35D	
			Sample Date	7/25/2015		11/18/2015		2/21/2016		11/16/2015		1/12/2015		4/15/2015		11/15/2015		7/28/2014		7/28/2014		1/14/2015		4/15/2015		7/25/2015	
			Sample Identification No.	MW31I		MW31I		MW31I		MW32D		MW-33D		MW-34D		MW34D		MW 35D		MW35D		MW-35D		MW-35D		MW35D	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		1	U	1	U	NA		NA		NA		1400		21000		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	2.6	J,O	1.1	J,O	1.9	J	5.0	U	10	U	10	U	NA		1000	U	75		99		150		99	J,O
Semi Volatile Organics	Acenaphthene	ug/L	469	5.0	U	2.1	J,O	2.8	J	5.0	U	10	U	10	U	NA		10	U	1	U	10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		5.0	U	5.0	U	5	U	5.0	U	10	U	10	U	NA		10	U	1.8		10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		5.0	U	5.0	U	5	U	5.0	U	10	U	10	U	NA		10	U	1.8		10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		5.0	U	5.0	U	5	U	5.0	U	10	U	10	U	NA		10	U	1.4		10	U	10	U	5.0	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		5.0	U	5.0	U	5	U	5.0	U	10	U	10	U	NA		10	U	1.4		10	U	10	U	5.0	U
Semi Volatile Organics	Chrysene	ug/L		5.0	U	5.0	U	5	U	5.0	U	10	U	10	U	NA		10	U	1.5		10	U	10	U	5.0	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		5.0	U	5.0	U	5	U	5.0	U	10	U	10	U	NA		10	U	2	U	10	U	10	U	5.0	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		5.0	U	5.0	U	5	U	5.0	U	10	U	10	U	NA		10	U	2	U	10	U	10	U	5.0	U
	BaP Equivalent	ug/L	0.2	ND		NO		ND		ND		ND		ND		NA		ND		Detected		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	1.5	J,O	6.4	J,O	4.8	J	10	U	10	U	10	U	10	U	98		98		10	U	44		42	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	6.9		12		9.2		5.0	U	10	U	10	U	5.0	U	62		23		19		30		26	
Semi Volatile Organics	Fluorene	ug/L	313	3.4	J,O	8.4		7.2		1.3	J,O	10	U	10	U	NA		10	U	2.4		10	U	10	U	5.0	U
Semi Volatile Organics	Naphthalene	ug/L	156	1.5	J,O	9.4		10		5.0	U	10	U	10	U	NA		1100		140		320		580		520	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	82	J,O	15		77		10	U	NA		NA		10	U	19000	U	6000		NA		NA		16000	
Semi Volatile Organics	Phenanthrene	ug/L	469	1.1	J,O	2.9	J,O	1.6	J	4.0	J,O	10	U	10	U	NA		30		17		10	U	13		11	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U,J,O	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		ND		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		0.24	J,O	NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		0.10	U	NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligrams per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location		MW35D		MW35D		MW36D		MW36D		MW36D		MW36D		MW36D		MW36D		MW37		MW37		MW37	
		Sample Date		11/18/2015		2/21/2016		7/28/2014		7/28/2014		1/13/2015		4/15/2015		7/25/2015		11/19/2015		2/21/2016		7/28/2014		7/28/2014		1/13/2015	
		Sample Identification No.		MW35D		MW35D		MW 36D		MW36D		MW-36D		MW-36D		MW36D		MW36D		MW36D		MW 37		MW37		MW-37	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		1.9		190		NA		NA		NA		NA		NA		2.5	U
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	1900	J,O	92		10	U	5	U	10	U	10	U	0.77	J,O	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics	Acenaphthene	ug/L	469	5.0	U	5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		5.0	U	5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics	Chrysene	ug/L		5.0	U	5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		5	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	10	U	10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		5	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	10	U	10	U
	BaP Equivalent	ug/L	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	37		10	U	10	U	10	U	10	U	0.67	J,O	2.7	J,O	50	U	10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	35		23		10	U	10	U	10	U	10	U	1.8	J,O	5.0	U	25	U	10	U	10	U	10	U
Semi Volatile Organics	Fluorene	ug/L	313	5.0	U	5	U	10	U	5	U	10	U	10	U	5.0	U	1.1	J,O	25	U	10	U	5	U	10	U
Semi Volatile Organics	Naphthalene	ug/L	156	490	J,O	230		10	U	5	U	10	U	10	U	5.3		5.0	U	2.5	J	10	U	5	U	10	U
Semi Volatile Organics	Pentachlorophenol	ug/L	1	16000	J,O	19000		150	J	280		NA		NA		120	J,O	650		180		25	U,J	100		NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	5.0	U	15		10	U	5	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.05	U
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.48	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.02	U
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	MW37		MW37		MW37		MW37		MW38A		MW38A		MW38A		MW38A		MW38A		MW38A		MW38A		MW38B	
			Sample Date	4/15/2015		7/23/2015		11/15/2015		2/20/2016		7/30/2014		7/30/2014		1/13/2015		4/15/2015		7/25/2015		11/17/2015		2/19/2016		8/7/2014	
			Sample Identification No.	MW-37		MW37		MW37		MW37		MW 38A		MW38A		MW-38A		MW-38A		MW38A		MW38A		MW38A		MW 38B	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	1	U	NA		NA		NA		NA		NA		44		23		NA		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	10	U	5.0	U	NA		5	U	50		27		79		48		37		70		54		120	
Semi Volatile Organics	Acenaphthene	ug/L	469	10	U	5.0	U	NA		5	U	10	U	10		14		10	U	6.3		10		5	U	28	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		10	U	5.0	U	NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		10	U	5.0	U	NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		10	U	5.0	U	NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		10	U	5.0	U	NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Chrysene	ug/L		10	U	5.0	U	NA		5	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U	5	U	5	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	5.0	U	NA		5	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	5.0	U	NA		5	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U	5	U	10	U
	BaP Equivalent	ug/L	0.2	ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	10	U	10	U	27		15		57		40		36	J,O	74		48		86	
Semi Volatile Organics	Dibenzofuran	ug/L	31	10	U	5.0	U	5.0	U	5	U	30		15		34		31		20		42		24		28	
Semi Volatile Organics	Fluorene	ug/L	313	10	U	5.0	U	NA		5	U	24		13		28		28		16		5.0	U	18		16	
Semi Volatile Organics	Naphthalene	ug/L	156	10	U	0.92	J,O	NA		5	U	410		240		660		390		330		560		420		490	
Semi Volatile Organics	Pentachlorophenol	ug/L	1	NA		0.57	J,O	10	U	0.35	J	300	J	290		NA		NA		59	J,O	91		55		5200	
Semi Volatile Organics	Phenanthrene	ug/L	469	10	U	5.0	U	NA		5	U	23		12		27		24		18		38		27		24	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		0.10	U,J,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		ND		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		0.10	U	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	0.05	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		1.0	U	0.34	J,O	1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	1.06		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		720		770		670		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	0.02	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		10	U	14		4	J	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	MW38B		MW38B		MW38B		MW38B		MW38B		MW39A		MW39A		MW39A		MW39A		MW39A	
			Sample Date	8/7/2014		1/13/2015		4/14/2015		7/25/2015		11/17/2015		2/20/2016		7/28/2014		7/28/2014		1/14/2015		4/16/2015		7/23/2015		11/18/2015	
			Sample Identification No.	MW38B		MW-38B		MW-38B		MW38B		MW38B		MW38B		MW 39A		MW39A		MW-39A		MW-39A		MW39A		MW39A	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		7300		3800		NA		NA		NA		NA		NA		4000	J	5300		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	200		260		270		190		310		220		1000	U	100		150		130		130	J,O	93	
Semi Volatile Organics	Acenaphthene	ug/L	469	42		67		79		35		79	J,O	71		40		29		38		42		37		7.8	
Semi Volatile Organics	Benzo(a)anthracene	ug/L		10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U,J,O
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U,J,O
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U,J,O
Semi Volatile Organics	Chrysene	ug/L		10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	5	U	10	U	10	U	5.0	U	5.0	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U,J,O
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		10	U	10	U	10	U	5.0	U	5.0	U	25	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U,J,O
	BaP Equivalent	ug/L	0.2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	110		150		180		130	J,O	130		92		22		19		10	U	23		27		6.6	J,O
Semi Volatile Organics	Dibenzofuran	ug/L	31	48		59		60		64		82	J,O	66		51		29		42		46		46		10	
Semi Volatile Organics	Fluorene	ug/L	313	26		42		50		43		53		25	U	27		21		28		30		34		5.8	
Semi Volatile Organics	Naphthalene	ug/L	156	1000		1300		1400		1000		1700		1200		1000	U	320		590		530		520		200	J,O
Semi Volatile Organics	Pentachlorophenol	ug/L	1	5300		NA		NA		2600		10	U	2600		3600	U	5100		NA		NA		5000		1500	
Semi Volatile Organics	Phenanthrene	ug/L	469	41		57		70		43		77		75		46		31		46		53		5.0	U	11	
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

			Sample Location	MW39A		MW39B		MW39B		MW39B		MW39B		MW39B		MW39B		MW39B		MW40		MW40		MW40	
			Sample Date	2/20/2016		7/28/2014		7/28/2014		1/14/2015		4/16/2015		7/23/2015		11/18/2015		11/18/2015		2/21/2016		7/29/2014		7/29/2014		1/14/2015	
			Sample Identification No.	MW39A		MW 39B		MW 39B		MW-39B		MW-39B		MW39B		MW39B		MW939B		MW39B		MW 40		MW40		MW-40	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA		1	U	20		NA		NA		NA		NA		NA		NA		10	U
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	120		10	U	8.3		10	U	10	U	4.1	J,O	8.1		7.7		4.3	J	10	U	5	U	100	U
Semi Volatile Organics	Acenaphthene	ug/L	469	50	U	10	U	5	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	5	U	100	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		50	U	10	U	5	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	5	U	100	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		50	U	10	U	5	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	5	U	100	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		50	U	10	U	5	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	5	U	100	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		50	U	10	U	5	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	5	U	100	U
Semi Volatile Organics	Chrysene	ug/L		50	U	10	U	5	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	5	U	100	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		50	U	10	U	10	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	10	U	100	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		50	U	10	U	10	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	10	U	100	U
	BaP Equivalent	ug/L	0.2	ND		ND		ND		ND		ND		ND		NA		NA		ND		ND		ND		ND	
Semi Volatile Organics	Carbazole	ug/L	48	100	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	20	U	10	U	10	U	100	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	31	J	10	U	10	U	10	U	10	U	5.0	U	6.8		6.0		4.1	J	10	U	10	U	100	U
Semi Volatile Organics	Fluorene	ug/L	313	50	U	10	U	5	U	10	U	10	U	5.0	U	NA		NA		10	U	10	U	5	U	100	U
Semi Volatile Organics	Naphthalene	ug/L	156	490		10	U	28		10	U	18		19		35		36		18		10	U	5	U	100	U
Semi Volatile Organics	Pentachlorophenol	ug/L	1	5700		500	J	520		NA		NA		5.1	J,O	360		320		110		150	J	170		NA	
Semi Volatile Organics	Phenanthrene	ug/L	469	38	J	10	U	5	U	10	U	10	U	5.0	U	NA		NA		1.8	J	10	U	5	U	100	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	NA		NA		NA		NA		NA		NA		0.58		0.58		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U,J,O	0.10	U,J,O	NA		NA		NA		NA	
Semi Volatile Organics SIM	Chrysene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		NA		NA		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA	
	BaP Equivalent	ug/L	0.2	NA		NA		NA		NA		NA		NA		ND		ND		NA		NA		NA		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	NA		NA		NA		NA		NA		NA		0.73	U,O	0.63	U,O	NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	NA		NA		NA		NA		NA		NA		2.3	J,O	2.1	J,O	NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.05	U
Total Metals	Arsenic	ug/L	10	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1430	
Total Metals	Manganese	ug/L	300	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		0.0211	
Total Metals	Nickel	ug/L	313	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected; PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable; the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location	MW40		MW40		MW40		MW40		MW40		MW41		MW41		MW41		MW41		PMW01I		SMW01I		SMW02I	
		Sample Date	4/15/2015		7/23/2015		11/18/2015		11/18/2015		2/21/2016		8/7/2014		8/7/2014		1/14/2015		4/14/2015		11/14/2015		11/12/2015		11/12/2015	
		Sample Identification No.	MW-40		MW40		MW40		MW940		MW40		MW 41		MW41		MW-41		MW-41		PMW01I		SMW01I		SMW02I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1		10	U	NA		NA		NA		NA		NA		68		5		NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31		10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	14		61	
Semi Volatile Organics	Acenaphthene	ug/L	469		10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	37	J,O	260	
Semi Volatile Organics	Benzo(a)anthracene	ug/L			10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	NA		NA	
Semi Volatile Organics	Benzo(a)pyrene	ug/L			10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	NA		NA	
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L			10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	NA		NA	
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L			10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	NA		NA	
Semi Volatile Organics	Chrysene	ug/L			10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	NA		NA	
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L			10	U	5.0	U	NA		NA		5	U	10	U	10	U	10	U	10	U	5.0	U	NA		NA	
Semi Volatile Organics	indeno (1,2,3-cd) pyrene	ug/L			10	U	5.0	U	NA		NA		5	U	10	U	10	U	10	U	10	U	5.0	U	NA		NA	
	BaP Equivalent	ug/L	0.2		ND		ND		NA		NA		ND		ND		ND		ND		ND		ND		NA	
Semi Volatile Organics	Carbazole	ug/L	48		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	19		130	
Semi Volatile Organics	Dibenzofuran	ug/L	31		10	U	5.0	U	5.0	U	5.0	U	5	U	10	U	10	U	10	U	10	U	5.0	U	160		51	J,O
Semi Volatile Organics	Fluorene	ug/L	313		10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	73		83	J,O
Semi Volatile Organics	Naphthalene	ug/L	156		10	U	0.72	J,O	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	290		3800	
Semi Volatile Organics	Pentachlorophenol	ug/L	1		NA		10	U	NA		3.6	J,O	10	U	420		220		NA		NA		230		9.9	J,O
Semi Volatile Organics	Phenanthrene	ug/L	469		10	U	5.0	U	NA		NA		5	U	5	U	10	U	10	U	10	U	5.0	U	70		83	J,O
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L			NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		0.10	U	0.14	J,O
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L			NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L			NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L			NA		NA		0.10	U,J,O	0.10	U,J,O	NA		NA		NA		NA		NA		NA		0.10	U,J,O	0.10	U,J,O
Semi Volatile Organics SIM	Chrysene	ug/L			NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		0.10	U	0.091	J,O
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L			NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
Semi Volatile Organics SIM	indeno (1,2,3-cd) pyrene	ug/L			NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		0.10	U	0.10	U
	BaP Equivalent	ug/L	0.2		NA		NA		ND		ND		NA		NA		NA		NA		NA		ND		Detected	
Semi Volatile Organics SIM	Fluorene	ug/L	313		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1		NA		NA		0.36	J,O	NA		NA		NA		NA		NA		NA		NA		0.81	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469		NA		NA		0.10	U	0.10	U	NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	mg/L	0.01		0.05	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Arsenic	ug/L	10		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	mg/L	0.3		445		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Manganese	ug/L	300		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	mg/L	0.313		0.02	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Total Metals	Nickel	ug/L	313		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - microgram per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected. PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable, the reported value is an estimate.

U - The analyte was not detected at or above the reporting limit.

DRAFT

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

Intermediate Groundwater Sample Results 2014-2016
Camilla Wood Preserving Company
Camilla, Mitchell, GA

		Sample Location		SMW03I		TMW01I		TMW02I	
		Sample Date		11/12/2015		11/11/2015		11/13/2015	
		Sample Identification No.		SMW03I		TMW01I		TMW02I	
Analysis	Analyte	Units	Camilla REMEDIAL GOALS-GW	Result	Qualifier	Result	Qualifier	Result	Qualifier
Herbicides	Pentachlorophenol	ug/L	1	NA		NA		NA	
Semi Volatile Organics	2-Methylnaphthalene	ug/L	31	NA		NA		5.0	U
Semi Volatile Organics	Acenaphthene	ug/L	469	NA		NA		5.0	U
Semi Volatile Organics	Benzo(a)anthracene	ug/L		NA		NA		5.0	U
Semi Volatile Organics	Benzo(a)pyrene	ug/L		NA		NA		5.0	U
Semi Volatile Organics	Benzo(b)fluoranthene	ug/L		NA		NA		5.0	U
Semi Volatile Organics	Benzo(k)fluoranthene	ug/L		NA		NA		5.0	U
Semi Volatile Organics	Chrysene	ug/L		NA		NA		5.0	U
Semi Volatile Organics	Dibenzo(a,h)anthracene	ug/L		NA		NA		5.0	U
Semi Volatile Organics	Indeno (1,2,3-cd) pyrene	ug/L		NA		NA		5.0	U
	BaP Equivalent	ug/L	0.2	NA		NA		ND	
Semi Volatile Organics	Carbazole	ug/L	48	10	U	10	U	10	U
Semi Volatile Organics	Dibenzofuran	ug/L	31	5.0	U	5.0	U	5.0	U
Semi Volatile Organics	Fluorene	ug/L	313	NA		NA		5.0	U
Semi Volatile Organics	Naphthalene	ug/L	156	NA		NA		5.0	U
Semi Volatile Organics	Pentachlorophenol	ug/L	1	NA		NA		10	U
Semi Volatile Organics	Phenanthrene	ug/L	469	NA		NA		5.0	U
Semi Volatile Organics SIM	2-Methylnaphthalene	ug/L	31	0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Acenaphthene	ug/L	469	0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Benzo(a)anthracene	ug/L		0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Benzo(a)pyrene	ug/L		0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Benzo(b)fluoranthene	ug/L		0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Benzo(k)fluoranthene	ug/L		0.10	U,J,O	0.10	U,J,O	NA	
Semi Volatile Organics SIM	Chrysene	ug/L		0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Dibenzo(a,h)anthracene	ug/L		0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Indeno (1,2,3-cd) pyrene	ug/L		0.10	U	0.10	U	NA	
	BaP Equivalent	ug/L	0.2	ND		ND		NA	
Semi Volatile Organics SIM	Fluorene	ug/L	313	0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Naphthalene	ug/L	156	0.10	U	0.10	U	NA	
Semi Volatile Organics SIM	Pentachlorophenol	ug/L	1	0.20	U	0.20	U	NA	
Semi Volatile Organics SIM	Phenanthrene	ug/L	469	0.10	U	0.10	U	NA	
Total Metals	Arsenic	mg/L	0.01	NA		NA		NA	
Total Metals	Arsenic	ug/L	10	NA		NA		NA	
Total Metals	Manganese	mg/L	0.3	NA		NA		NA	
Total Metals	Manganese	ug/L	300	NA		NA		NA	
Total Metals	Nickel	mg/L	0.313	NA		NA		NA	
Total Metals	Nickel	ug/L	313	NA		NA		NA	

Notes:

Shading indicates an analyte exceeds remedial goal

Shading indicates a PAH used in calculating BaP equivalents

BaP equivalent - Benzo(a)pyrene equivalents calculated per EPA Region 4 guidance

ug/L - micrograms per liter

mg/L - milligram per liter

NA - Not Analyzed

ND - Not Detected, PAHs used in calculating BaP equivalents were not detected

Detected - PAHs used in calculating BaP equivalents were detected, but calculated concentrations have not been reported yet

J - The identification of the analyte is acceptable, the reported value is an estimate

U - The analyte was not detected at or above the reporting limit.

Created by: Suzy Prouty 1/23/2017
Updated by: Courtney Collins 2/13/2017
Checked by:

APPENDIX E – DECEMBER 2016 QUARTERLY WATER LEVEL MEMORANDUM

BLACK & VEATCH
Building a world of difference.

BLACK & VEATCH SPECIAL PROJECTS CORP.
1120 SANCTUARY PARKWAY, STE 200
ALPHARETTA GA 30009
770-521-8127 | MCCOYCE2@bv.com

MEMORANDUM

United States Environmental Protection Agency
Camilla Wood Preserving Site
Pressure Transducer Technical Memo #4

B&V Project 049062
B&V File 49062-0144-03-M-02471R0
December 30, 2016

To: Scott Miller, Remedial Project Manager, USEPA Region 4
From: Carrie McCoy, Task Order Manager, Black & Veatch
cc'd: Luis Flores, USEPA Region 4
Ben Bentkowski, USEPA
Jim McNamara, GA EPD
Ed Hicks, Project Manager, Black & Veatch
Phillip Cole, Black & Veatch
Subject: Pressure Transducer Operation from August 23, 2016 through November 21, 2016 at the Camilla Wood Preserving Site

Black & Veatch Special Projects Corp. (Black & Veatch) was tasked by United States Environmental Protection Agency (EPA) to install, maintain, and monitor pressure transducers at the Camilla Wood Preserving Site (Site) in Camilla, Mitchell County, Georgia. The purpose of the pressure transducer investigation is to monitor groundwater elevations, which can be used to help assess the integrity of the barrier wall and capping containment system at the Site. Ten (10) pressure transducers were installed on November 20, 2015 into existing monitoring wells (Figure 1). The first Pressure Transducer Memo was submitted by Black & Veatch in March 2016 and described transducer station installation, locations, rationale, and a discussion of first 3 months of transducer operation (November 22, 2015 through February 22, 2016). The second and third Pressure Transducer Memos were submitted by Black & Veatch in June 2016 and September 2016, respectively, and described transducer operation between February 23, 2016 and August 22, 2016. This fourth quarterly Pressure Transducer Memo describes the fourth quarter of transducer operations between August 23, 2016 and November 21, 2016. Anomalies in the transducer data are discussed along with recommendations. A summary of Transducer Station Locations and Rationale, which has been provided in the text of previous Pressure Transducer Memos, is now located in Attachment 1 of this Pressure Transducer Memo.

Data Evaluation

To assess groundwater elevations inside and outside the barrier wall and capping containment system at the Site, the transducer data is downloaded on regular basis (at least twice per month). The data has been evaluated through November 21, 2016 to document and interpret the trend of water elevations at the Site, as illustrated on Figures 2, 3, and 4. Figure 5 presents groundwater elevations for Transducer Stations 1 through 5 at the Site, which were measured manually on October 14, 2016. These water level measurements are also indicated on Figures 2 and 3 for comparison of water level

elevations measured by the transducers in Transducer Stations 1 through 5. Table 1 presents the groundwater level elevations obtained by manual groundwater level measurements by Black & Veatch on February 22, 2016, April 4, 2016, July 23, 2016, and October 14, 2016. Also, of note, when the manual water level measurement was collected at CAP04 on October 14, 2016, field personnel noted a slight LNAPL staining to the water level meter tape. In the future, a water level interface probe will be used for these manual measurements in order to measure any thickness of LNAPL that is present.

Table 1:
Summary of Groundwater Elevations Collected Manually at Transducer Station Locations

Well ID	Location	Transducer Station	Water Level Elevation on 02/22/16 (ft amsl)	Water Level Elevation on 04/04/16 (ft amsl)	Water Level Elevation on 07/23/16 (ft amsl)	Water Level Elevation on 10/14/16 (ft amsl)
CAP08	Inside Barrier Wall	1	157.82	157.25	157.86	157.55
CAP04		2	162.88	163.48	160.89	159.02
CAP05		3	159.5	160.2	160.07	157.47
CAP06		4	155.82	155.55	155.54	155.3
MW08S	Outside Barrier Wall	1	168.96	169.97	167.17	164.7
CAP02		2	169.56	170.14	168.15	166.62
MW04S		3	169.97	170.92	168.48	166.2
CAP03		4	166.85	167.14	167.07	165.31
MW01I	Background Well	5	125.47	129.84	123.33	120.34
MW01S	Outside Barrier Wall		165.43	166.04	163.59	162.86

Note:
ft amsl – feet above mean sea level

Based on pre-cap construction groundwater elevation data, the Site-wide water table along the top of the surficial aquifer is nearly flat. However, the installation of any containment system will modify the local groundwater flow system, particularly after rainfall events. In particular, water is intentionally shed off the cap, creating a temporary mound along the outer perimeter of the cap. During rainfall events, any local drainage system will also locally elevate the water table. For example, increased surface water drainage along the right of way of Thomas Street to the east and East Bennett Street to the north could influence the water table adjacent to the cap in these regions. In addition, any natural flow direction in the surficial aquifer will be disrupted and re-routed where groundwater meets the barrier wall.

Regarding the background monitoring well, MW01S continues to react to rainfall events similarly to MW08S, CAP02, and MW04S, which are also outside the barrier wall containment system (Figures 1

and 2). The general groundwater elevation in MW01S was approximately 6-7 feet lower than the average of MW08S, CAP02, and MW04S in November 2016. The lower groundwater elevation at MW01S is most likely attributed to its distance from the containment system (minimally influenced by the shedding of rain water from the cap) and the well is located on the western side of the containment cell where water level elevations are slightly lower. On October 10, 2016, during quarterly groundwater sampling at the Site, Black & Veatch field personnel manually measured water levels at MW02S, MW11S, and MW13S to further investigate this phenomenon. MW02S, which is on the western side of the containment cell, had a lower groundwater elevation (163.32 feet amsl) than MW11S (165.92 feet amsl) and MW13S (166.52 feet amsl), which are on the eastern side of the containment cell. The water level elevations measured on October 10, 2016 are included in the following Table 2.

Table 2:
Summary of Groundwater Elevations Collected Manually on October 10, 2016 at Non-Transducer Station Locations

Well ID	Water Level Elevation on 10/10/16 (ft amsl)
MW02S	163.32
MW11S	165.92
MW13S	166.52

Note:
ft amsl – feet above mean sea level

The groundwater elevation in background shallow well MW01S (from November 2015 to November 2016) has fluctuated from a low of approximately 155.5 feet above mean sea level (amsl) to a high of 166.5 feet amsl. The overall trend in MW01S has very similarly mimicked the trends in MW04S, MW08S, and CAP02, which show rapid response to rainfall events. The groundwater elevation of MW01S is approximately 4 to 6 feet lower than the averaged elevation of MW04S, MW08S, and CAP02 from November 2015 through November 2016 (as shown in Figure 4). The groundwater elevation in background intermediate well MW01I (from November 2015 to November 2016) has fluctuated from a low of approximately 118 feet amsl to a high of 132 feet amsl, with an overall rising trend from November 2015 through early April 2016 followed by a generally decreasing trend through November 2016. In general, both MW01S and MW01I have both shown a steady, decreasing trend in groundwater elevation from early September 2016 through mid-November 2016 in response to drought conditions persisting in southwest Georgia. In addition, the variation in the groundwater elevations at background monitoring wells MW01I and MW01S reveal a significant downward vertical

hydraulic gradient, calculated at approximately -0.91 foot/foot by the manual measurements collected by Black & Veatch on October 14, 2016. To further investigate the downward vertical hydraulic gradient at the Site, Black and Veatch manually measured groundwater level measurements during quarterly groundwater sampling activities at the Site in October 2016. Water level measurements were collected at MW02S, MW02I, MW11S, and MW11I on October 10, 2016. Both the MW02S/02I and MW11S/11I clusters show similar downward hydraulic gradients that are evident in the MW01S/01I cluster. The hydraulic gradients are presented in the following Table 3.

Table 3:
Summary of Vertical Hydraulic Gradients at Non-Transducer Station Monitoring Wells

Well ID	Well Total Depth	Water Level Measured on 10/10/16 (feet BTOC)	Vertical Hydraulic Gradient
MW02S	20	5.83	-0.90
MW02I	65	46.35	
MW11S	25	5.72	-0.86
MW11I	75	48.89	

Note:
BTOC – below top of casing

Similar to background well MW01S, groundwater elevations surrounding the outside of the barrier wall and capping containment system continue to show a rapid response to rainfall events (Figure 3). Transducer Stations 1, 2, and 3 (MW08S, CAP02, and MW04S, respectively) continue to demonstrate an almost immediate response to rainfall events. Specifically, the spikes in groundwater elevation on Figure 3 are just slightly after the spikes representing rainfall events. However, CAP03 (at Transducer Station #4) only shows an overall general trend that mimics the responses by MW08S, CAP02, and MW04S to rainfall events (e.g., a somewhat muted response compared to MW08S, CAP02, and MW04S). The muted response to rainfall events at CAP03 is discussed further in the "Groundwater Elevation Anomalies" section below.

Regarding the inside of the cap, groundwater elevations at CAP04 and CAP05 (Figures 2 and 3) appear to continue to trend similarly to intermediate background monitoring well MW01I. Since early Summer 2016, CAP04 and CAP05 have shown an overall downward trend in groundwater elevation, which corresponds with drought conditions encountered during this time period in southwest Georgia. The last rainfall of greater than 1 inch at the weather station at C.M. Stripling Irrigation Research Park in Camilla was on September 18, 2016. There were only a few minor rainfall events (0.20 inches of rainfall or less) on 5 days from September 19, 2016 through November 21, 2016. CAP04 and CAP05 are located along the east and southeast border of the barrier system, inside the barrier system adjacent to Thomas Street (Figure 1). Also, groundwater elevations at the other two wells inside the cap (CAP06 and CAP08) displayed a relatively steady groundwater elevation since August 2016.

As labelled on Figure 3, groundwater levels at CAP05 have fallen below the level of the pressure transducer senor from December 21, 2015 to January 22, 2016 and again from October 22, 2016 through November 21, 2016. The groundwater level at MW08S fell below the transducer sensor on November 14, 2016 and remained below the sensor through November 21, 2016, which is noted on Figure 3. Sometime between the previous, manual water level reading in July 2016 and the current, manual reading in October 2016, the water level at CAP06 has fallen below the transducer sensor. This is indicated by the orange dot on Figure 3, which is shown approximately 0.4 feet below the sensor elevation. Figure 5 shows groundwater elevations for Transducer Stations 1 through 5 at the Site, which were measured on October 14, 2016.

Also of note is what appears to be an incorrect manual water level measurement by field staff at MW01S on October 14, 2016. The orange dot (representing the manual water level measurement) on Figure 3 is approximately 3 feet higher in elevation than the water level measured by the transducer on October 14, 2016. Care will be exercised in the next field event to ensure correct water level measurement at MW01S and all wells measured.

Groundwater Elevation Anomalies

Based on experience at other sites, Black & Veatch considers some of the observed groundwater elevation trends normal, whereas other, more complex trends deserve explanation to assess groundwater movement in relation to the containment system. For example, the response to rainfall events and the 'jagged shark fin' response in the outer surficial aquifer wells is an ordinary pattern for the rising and falling water table in an unconfined surficial aquifer (Figure 4). However, outside well CAP03 behaves differently than the all other wells outside the barrier wall, in that it did not display the 'jagged shark fin' response to rainfall events, except for a 'jagged shark fin' after a very large rainfall event in early August 2016, and is discussed further in this section.

The reliability of the data generated from each transducer is very important. Except for periodic occasions where the water level has fallen below the pressure transducers at CAP05, CAP06, and MW08S (Figure 3), there are no indications that the data was disrupted (per the remote telemetry examinations). As a quality control measure for transducer operation, water levels have been manually obtained on February 22, 2016, April 4, 2016, July 23, 2016, and October 14, 2016 at the Transducer Stations (which are shown in Figures 2 and 3). The water levels were approximately identical to the transducer data, with a deviation of all the wells ranging from 0.03 to 0.14 foot in the February 22, 2016 measurements, from 0.02 to 0.21 foot in the April 4, 2016 measurements, and from 0.04 to 0.15 foot in the July 23, 2016 measurements. The manual measurements made on October 14, 2016 had a deviation (of all wells except MW01S, MW08S, CAP06) of 0.03 to 0.10 foot. The deviation at MW01S (3.01 foot deviation) is presumably due to the measurement error mentioned earlier. CAP06, which was also mentioned previously, has a deviation of 0.40 foot due to the water level falling below the transducer sensor. The water level at MW08S also fell below the transducer sensor, which lead to a deviation of 0.08 foot. The manual water levels compared to the transducer data are illustrated

graphically by the green dots (generated on February 22, 2016), yellow dots (generated on April 4, 2016), red dots (generated on July 23, 2016) and orange dots (generated on October 14, 2016) on Figures 2 and 3.

The muted response to rainfall events at CAP03 can possibly be explained by its location near a significant drainage feature (drainage swale along western side of containment system); thereby, rain water shedding off the containment system has less of an influence at CAP03. This drainage swale (shown on the western side of the containment cell in Figure 1) connects directly to the nearby storm water drop inlet and the surface water is directed to the storm water pond on the southwest portion of the Site. This process sheds surface water away from CAP03 much more quickly than at the MW04S, MW08S, and CAP02; thereby, potentially explaining the muted response to rainfall events at CAP03 during moderate rainfall events. However, during early August 2016, there were several days of repeated, large rainfall events. These large rainfall events likely overwhelmed the usually-more-rapid drainage capabilities of the area surrounding CAP03. This likely lead to the unusual 'jagged shark fin' response to rainfall in early August 2016 at CAP03. CAP03 began behaving as the other wells (MM04S, MW08S, and CAP02) outside of the capping and containment system in response to the drought conditions from mid-September 2016 through mid-November 2016. Black & Veatch will continue to monitor the behavior of groundwater within CAP03 and evaluate anomalous behavior. As was discussed in *Pressure Transducer Technical Memo #2*, on March 20, 2016, Black & Veatch personnel investigated the area immediately around CAP03 (by hand augering) to ensure that no capping/containment material were located in the vicinity of CAP03, which was confirmed.

The fluctuations in groundwater elevation observed in CAP04 and CAP05 appear to generally mimic groundwater elevations at MW01I (Figure 2), which is the background intermediate well outside of the barrier wall and capping containment system at the Site. The groundwater elevation at CAP02, outside the barrier wall, is approximately 5 feet higher than the groundwater elevation at CAP04 in November 2016, which is inside the barrier wall (Figure 3). Also, the groundwater elevation at MW04S, outside the barrier wall, is approximately 5-6 feet higher than the groundwater elevation at CAP05 in November 2016, which is inside the barrier wall (Figure 3). As was mentioned in *Pressure Transducer Technical Memo #2*, on March 20, 2016, Black & Veatch personnel walked the entire the rock ring around the base of the containment cell in an attempt to identify any areas where the containment cell could be damaged or possibly leaking. This was recommended to investigate rising groundwater elevation trends at CAP04 and CAP05 along the eastern side of the containment cell. Black & Veatch looked for stressed vegetation, wet areas, and sedimentation around the rock ring, but saw no evidence of damage or leakage around the rock ring. Also during the March 2016 event, Black & Veatch investigated the foundations of the light posts near CAP04 and CAP05. No leakage or damage was noted around the foundations of the light posts near CAP04 or CAP05. Since groundwater elevations at CAP04 and CAP05 leveled-off and have begun to decrease, and no damage to the containment cell around CAP04 or CAP05 have been noted, no further investigation is recommended at this time, but Black & Veatch will closely monitor groundwater elevations at Transducer Stations 2 and 3 in subsequent events. If groundwater hydraulic head inside the containment cell comes within 2 feet

of the hydraulic head of their corresponding monitoring well outside of the containment cell, further investigation will be recommended. Black & Veatch will discuss any future recommendations with EPA prior to completing any additional investigation. These phenomena will continue to be closely monitored by Black & Veatch (all transducer station data reviewed on a monthly basis and continued close monitoring of water levels at CAP04 and CAP05 on a semimonthly basis).

Also of note, the water elevations at CAP02, MW04S, and MW08S have periodically exceeded the height of the barrier wall (approximately 169 feet amsl) during the monitoring period of November 22, 2015 through November 21, 2016 (the approximate elevation of the barrier wall is indicated as a horizontal red line in Figures 2, 3, and 4). This may also help to account for the lower hydraulic head difference between the wells inside and outside the capped area along Thomas Street, as groundwater could be flowing over the barrier wall and back into the containment cell. Rising water along the east side of the containment system could be exacerbated through insufficient surface water drainage along the Thomas Street right of way during rain events. However, since mid-September 2016, all Transducer Stations have reported water level elevations below the elevation of the barrier wall, which is in response to drought conditions in southwestern Georgia during the timeframe. Black & Veatch will continue to monitor the water level elevations in relation to the barrier wall elevation.

Recommendations

The following recommendations are intended to refine insight into groundwater elevations inside and around the capping containment system at the Site.

1) Continue monitoring transducers (all transducer station data reviewed on a monthly basis and continued close monitoring of water levels at CAP04 and CAP05 on a semimonthly basis). Results shall be included with the next quarterly transducer memo with updated charts, tables and figures.
2) During a subsequent field visit, collect a synoptic (same day/no rain) round of water levels from all transducer station monitoring wells. Results shall be included with the next quarterly transducer memo.
3) A heavy rainfall event was not observed during times when Black & Veatch was onsite during the August 2016 to November 2016 timeframe covered by this memorandum; therefore, during a subsequent field visit, pay particular attention to the weather (day and night). If heavy rain occurs, document surface water flow around CAP03 to confirm the quick drainage of the area surrounding CAP03 during heavy rainfall events.
4) During the next quarterly groundwater sampling (scheduled for January 2017), manually measure water levels in monitoring wells MW02S, MW11S, and MW13S to confirm mounding of groundwater around the border of the containment cell and confirm slightly lower groundwater elevations west of the containment cell.
5) During the next quarterly groundwater sampling (scheduled for January 2017), manually measure water levels in monitoring wells MW02S, MW02I, MW11S, and MW11I to be able to calculate vertical hydraulic gradients at non-Transducer Station location wells.

6) Finally, as mentioned in the *Pressure Transducer Installation Memorandum* (dated September 21, 2015), maintenance of the transducers is anticipated approximately every six months; however, more frequent maintenance visits might be required if anomalous data is identified. Black & Veatch will assess the transducer station locations (integrity of the stations, integrity burial of cables between stations, etc.) at the next quarterly groundwater sampling at the Site in January 2017, but will not remove the transducers from the wells for inspection unless there is anomalous data at a particular transducer station.

Please contact us if you have any questions or if you would like to schedule a conference call or meeting to discuss the results and proposed work efforts.

FIGURES:

Figure 1 Transducer and Monitoring Well Location Map

Figure 2 Transducer Results at All Stations (November 22, 2015 through November 21, 2016)

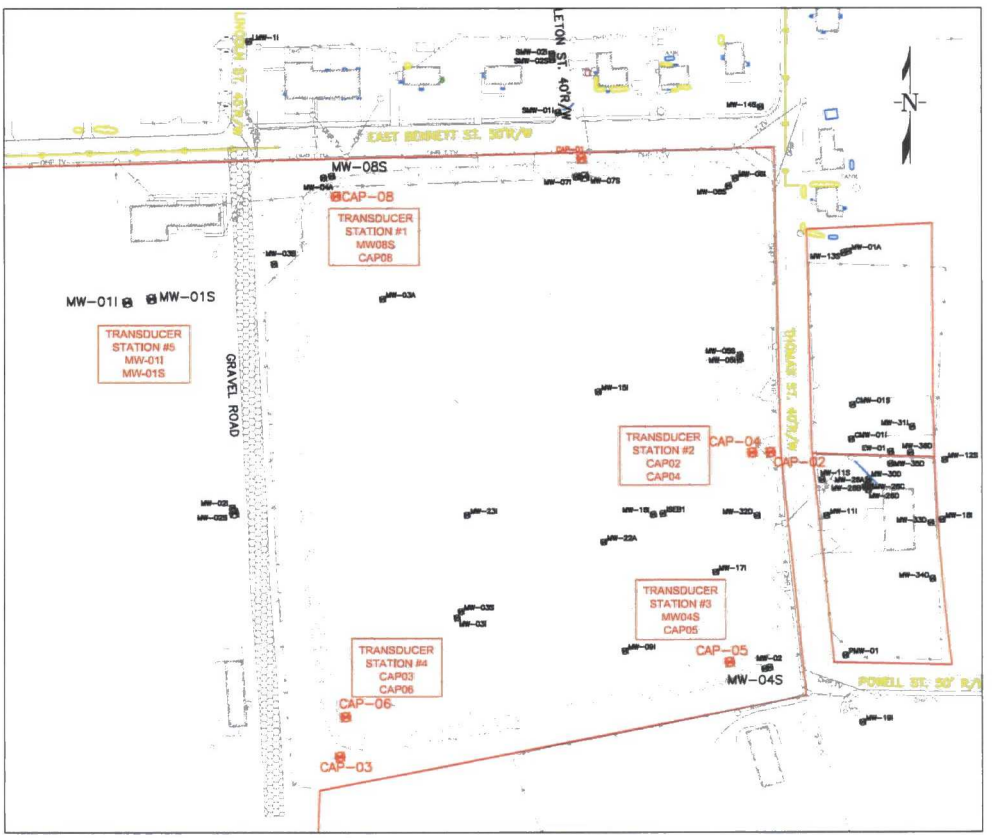
Figure 3 Transducer Results at Stations 1 through 4 (November 22, 2015 through November 21, 2016)

Figure 4 Groundwater Elevation at Background Well (MW01S) Compared to Average Groundwater Elevations in Wells (MW08S, MW04S, and CAP02) Outside Barrier Wall and Capping Containment System (November 22, 2015 through November 21, 2016)

Figure 5 Groundwater Elevations as Measured Manually on October 10, 2016 and October 14, 2016

ATTACHMENTS:

Attachment 1 Transducer Installation Information



	CAMILLA WOOD PRESERVING SITE CAMILLA, MITCHELL COUNTY, GEORGIA	TRANSDUCER AND MONITORING WELL LOCATION MAP	FIGURE 1

Figure 2
Transducer Results at All Stations (November 22, 2015 through November 21, 2016)
Groundwater Surface Elevation Measured by Transducers (Feet NAVD88) and Rainfall (Inches)

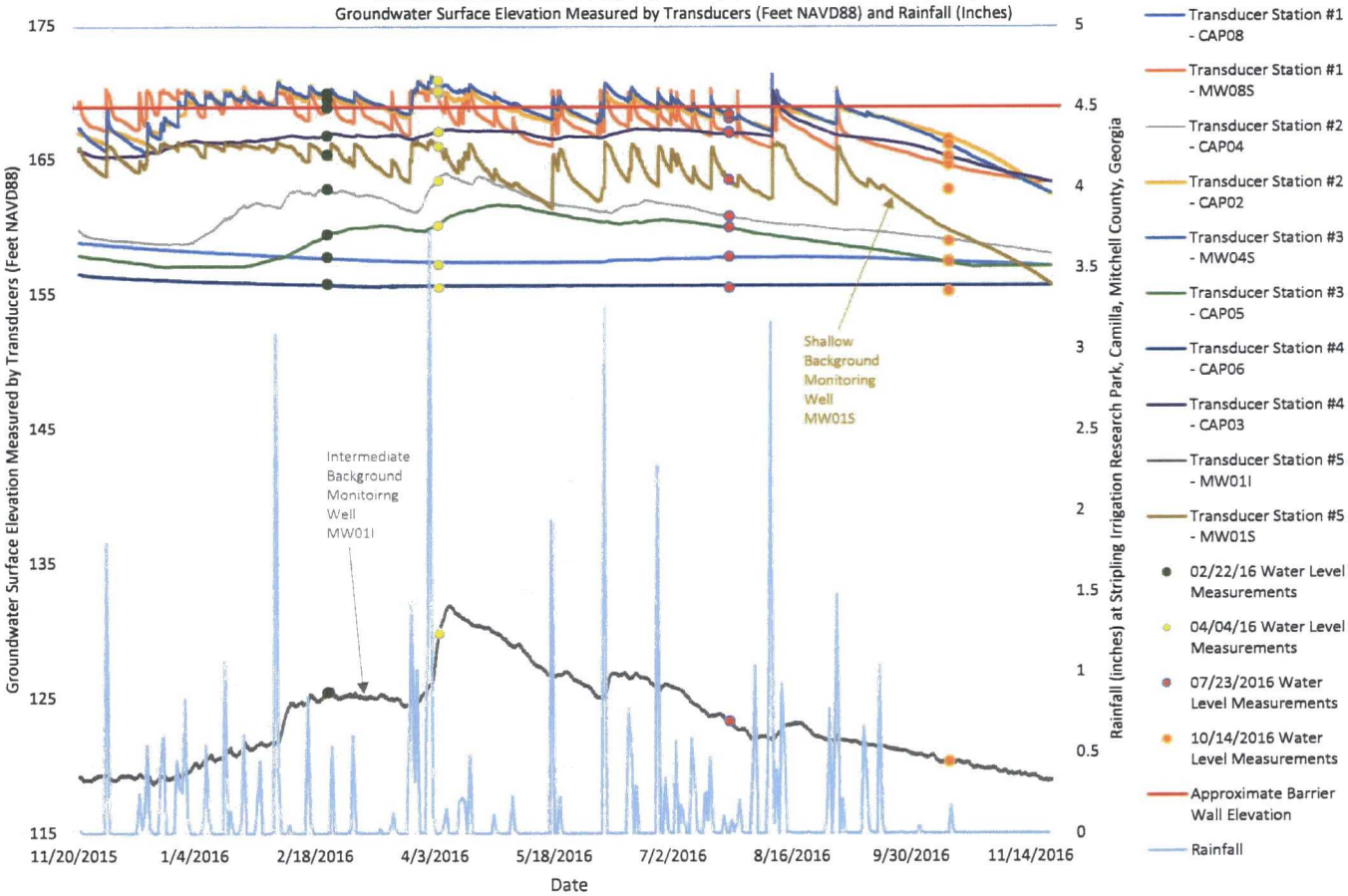


Figure 3
Transducer Results at Stations 1 through 4 (November 22, 2015 through November 21, 2016)
Groundwater Surface Elevation Measured by Transducers (Feet NAVD88) and Rainfall (Inches)

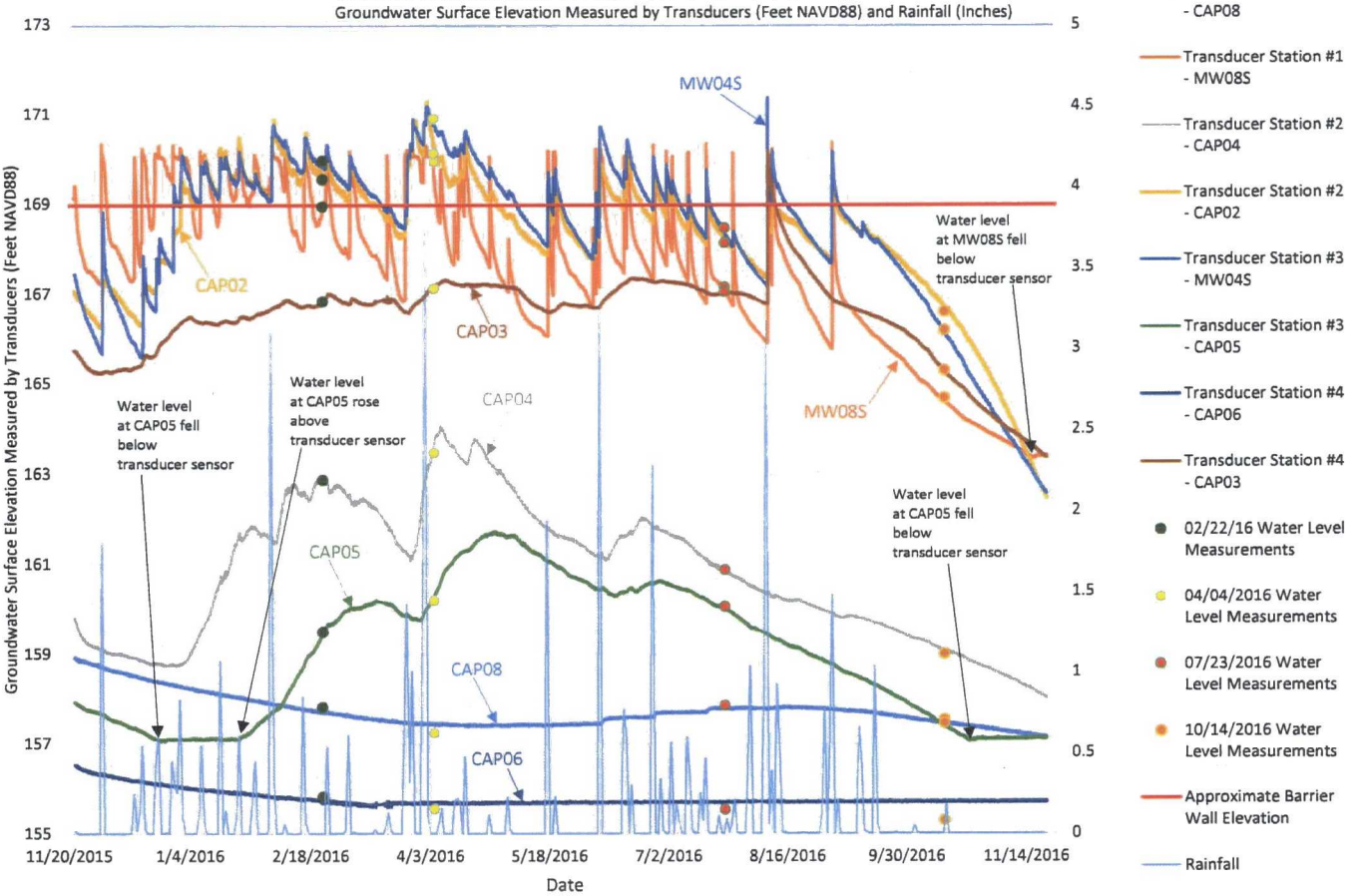
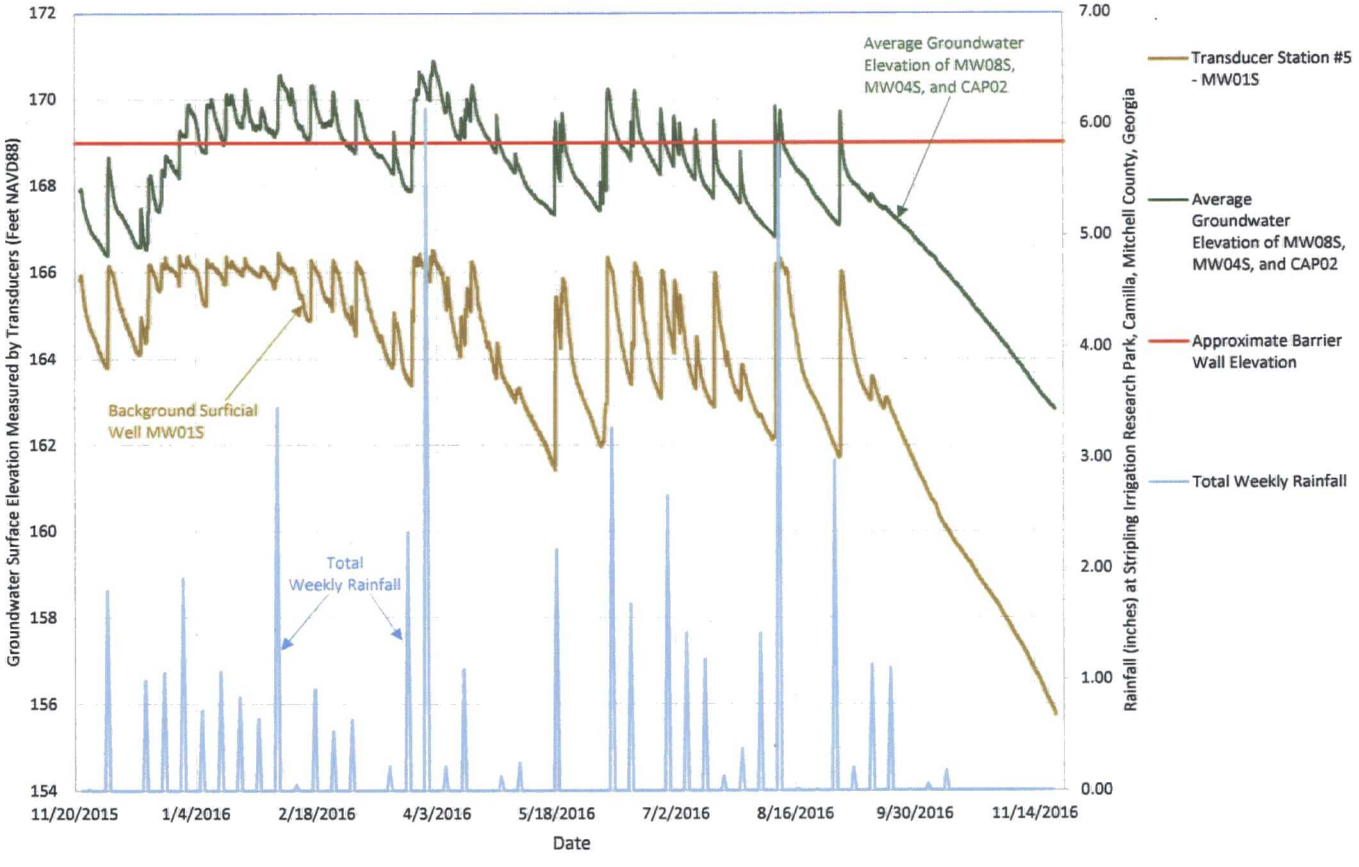


Figure 4
Groundwater Elevation at Background Well (MW01S) Compared to Average Groundwater Elevations in Wells (MW08S, MW04S, and CAP02)
Outside Barrier Wall and Capping Containment System (November 22, 2015 through November 21, 2016)



CAMILLA WOOD PRESERVING SITE
CAMILLA, MITCHELL COUNTY, GEORGIA

GROUNDWATER ELEVATIONS
AS MEASURED MANUALLY October 14, 2016
*MW02S, MW11S, and MW13S measured on October 10, 2016

FIGURE
5

ATTACHMENT 1
TRANSDUCER INSTALLATION INFORMATION

ATTACHMENT 1
TRANSDUCER INSTALLATION INFORMATION

Transducer Station Locations and Rationale

A network of ten (10) existing monitoring wells was selected for transducer deployment, and transducers were installed into each monitoring well on November 20, 2015. Tables 1 through 3 were included in *Pressure Transducer Technical Memo #1* and *Pressure Transducer Technical Memo #2*, but have been included in this Attachment 1 for ease of reference. Table 1 describes the rationale for the deployment of each transducer into each selected well. Monitoring of groundwater elevations in eight of the wells is associated with the existing barrier wall and capping containment system. These eight wells are represented by Transducer Stations #1 through #4, with each station consisting of two wells. Transducer Station #5 consists of the two remaining monitoring wells (MW01I and MW01S), where the transducers were installed to monitor background groundwater elevations in the intermediate and shallow groundwater aquifers. The transducer stations have cellular capabilities for remote data download, with one cellular unit at each transducer station. Monitoring well details for wells associated with Transducer Stations are presented in Table 2. Transducer deployment is summarized on Table 3. Field records associated with the transducer installations on November 20, 2015 are included as Attachment 1 in *Pressure Transducer Technical Memo #1*.

Table A1:
Transducer Station Location Summary

Transducer Station Location	Monitoring Wells Involved	Location Rationale
Transducer Station #1	Tandem of MW08S (outside barrier wall) and CAP08 (inside barrier wall)	Monitoring groundwater levels inside/outside barrier wall along northwestern boundary.
Transducer Station #2	Tandem of CAP02 (outside barrier wall) and CAP04 (inside barrier wall)	Monitoring of groundwater levels inside/outside barrier wall along eastern boundary.
Transducer Station #3	Tandem of MW04S (outside barrier wall) and CAP05 (inside barrier wall)	Monitoring groundwater levels inside/outside barrier wall along southeastern boundary.
Transducer Station #4	Tandem of CAP03 (outside barrier wall) and CAP06 (inside barrier wall)	Monitoring groundwater levels inside/outside barrier wall along southwestern boundary.
Transducer Station #5	Tandem of MW01I (intermediate) and MW01S (shallow).	Background monitoring of intermediate and shallow aquifer groundwater levels.

Table A2:
Monitoring Well Details

Well ID	Total Depth (ft BTOC)	Approximate Screen Length (ft)	Aquifer	Northing	Easting	Notes
CAP02	19.40	10	Shallow	444439.610	2285610.200	Flush mount outside eastern barrier wall.
CAP03	18.93	10	Shallow	444050.190	2285057.280	Flush mount outside southwestern barrier wall.
CAP04	25.80	10	Shallow	444440.200	2285585.950	Flush mount inside eastern barrier wall.
CAP05	25.38	10	Shallow	444169.900	2285557.320	Flush mount inside southeastern barrier wall.
CAP06	24.34	10	Shallow	444100.130	2285064.410	Flush mount inside southwestern barrier wall.
CAP08	25.53	10	Shallow	444768.340	2285052.420	Flush mount inside northwestern barrier wall.
MW04S	14.75	10	Shallow	444160.997	2285602.486	Flush mount outside southeastern barrier wall.
MW08S	14.48	10	Shallow	444794.061	2285047.342	Flush mount outside northwestern barrier wall.
MW-01I	67	12	Intermediate	444631.566	444631.566	Monument (stickup) west of containment cell; south of recreation center.
MW-01S	20	11	Shallow	444636.045	444636.045	Monument (stickup) west of containment cell; south of recreation center.

Notes:
BTOC = below top of casing
ft. = feet

Table A3:
Transducer Deployment Summary (November 20, 2015)

Monitoring Well	Serial Number of Transducer	Transducer Station Location	Water Level at time of transducer installation (feet BTOC)	Depth of Transducer Sensor (feet BTOC)	Sensor Elevation (NAVD88)	Cube Transmitter Assigned
CAP08	424025	1	16.25	18.83	156.57	15112138
MW08S	431040		0.23	6.67	163.35	
CAP04	428512	2	15.85	19.67	156.48	15081907
CAP02	431207		4.61	13.81	157.88	
MW04S	430855	3	2.21	8.81	161.32	15112140
CAP05	427063		18.82	19.71	157.11	
CAP06	427177	4	18.69	19.77	155.63	15112139
CAP03	431168		2.72	12.71	155.94	
MW01I	423854	5	49.87	60.00	108.90	15081906
MW01S	431265		2.72	15.00	153.82	

Notes:
BTOC = below top of casing
ft. = feet

Transducer Equipment, Installation, and Programming

A summary of the transducer equipment, installation of transducers, and programming are described in detail in the *Pressure Transducer Technical Memo #1*. Each pressure transducer consists of an In Situ® Rugged TROLL 200 in each of the ten monitoring wells, along with a Cube 300R Telemetry Transmitter at each station. Manufacturer's information sheets for the transducers and telemetry units are included in Attachment 2 of *Pressure Transducer Technical Memo #1*. The Cube 300R Telemetry Transmitters also contain barometers and correct all transducer data for barometric pressure prior to transmittal (via cellular).

The pressure transducers are programmed to collect water pressure readings every 30 minutes, which has remained the same since installation of the pressure transducers in November 2015. The transducer data is transmitted (via cellular) every 72 hours, and is subsequently downloaded by Black & Veatch.

The weather station at C.M. Stripling Irrigation Research Park in Camilla has been utilized to track precipitation in the region, and to compare to the transducer data. The precipitation data from the weather station can be found at: http://weather.uga.edu/index.php?variable=HI&site=CAMILLA. The weather station is located approximately 6.5-miles northwest of the Site. Rainfall data has been provided on Figures 2, 3, and 4. In previous Pressure Transducer Memos, the rainfall data for December 31, 2015 was not available. The rainfall data (0.83 inches of rainfall) for December 31, 2015 is now available, and this data is included in this Pressure Transducer Technical Memo.

This page intentionally left blank

APPENDIX F – SITE INSPECTION REPORT

Camilla Wood Preserving Site
Five-Year Review Site Inspection Report
January 17, 2017
049082.08.45.00

Carrie McCoy of Black & Veatch visited the Camilla Wood Preserving Site (site) in Camilla, Mitchell County, Georgia on January 10, 2017 to complete the inspection of the installed remedial components. The visit was conducted between 10:00am and 12:00pm. The weather at the time of the inspection was clear, sunny and 50 degrees F. Personnel interviews were conducted separately in December 2016 and no interviews were completed as part of this inspection. There is no full-time presence onsite performing O&M activities and, as such, all project documentation is stored at the Black & Veatch office in Alpharetta, Georgia. Relevant documentation includes an O&M manual for the pond, as-built drawings of the pond, barrier wall, cap and wells, a CHASP and relevant personnel training records. The City of Camilla and Mitchell County have been maintaining the vegetation on the cap and pond areas and have been operating the storm water pond since 2014. No O&M cost records are available.

The remedy at this site includes access controls, institutional controls, a low-permeability cap, surface water collection and vertical barrier walls. A site map and photographs are attached that show relevant findings and locations.

General: No evidence of vandalism was observed. Potential trespassing was observed (discussed under Access controls below). No land use changes were observed. Driveways on the site appeared to be in good condition and are adequate for the site.

Access controls: The site is enclosed by a 6 foot chain link fence. In general, the fence is in good condition. It was observed that the gates leading to the storm water pond were open and unsecured. These gates should be secured at all times. There are a few locations where the fencing has been damaged.

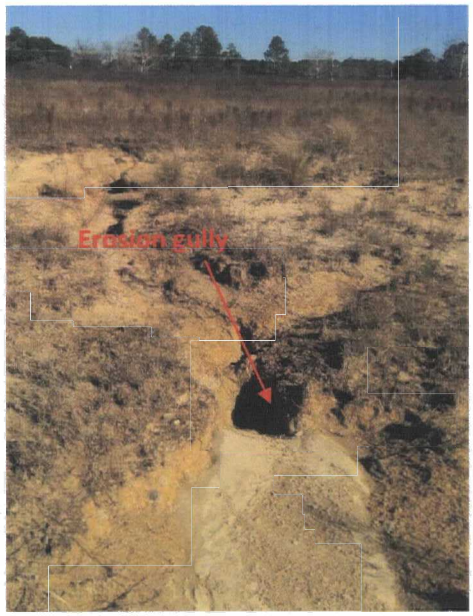
In one area along Bennett Street, the fence fabric has been wrenched so that someone could get under the fence and gain access to the site. This fencing should be repaired and secured to the extent possible.

One of the secondary gates along Thomas Street has been damaged and could be used by non-authorized personnel to access the site. This gate should be repaired to prevent entry of non-authorized personnel.

Institutional controls: Institutional controls have not yet been implemented for this facility, so no review of their effectiveness was performed.

Low permeability cap: The surface and sides of the low permeability cap were observed. In general, there were no areas of settlement or cracks observed and the cap appeared to be in good condition with stable side slopes, established vegetative cover and no holes or bulges observed. Cap penetrations, including groundwater monitoring wells and deep foundations, were observed and no evidence of leakage around the penetration was observed. The rock ring around the cap that provides an exit point for infiltrated water to shed off of the geosynthetic clay liner (GCL) was inspected and found to be functioning properly, as evidenced by seepage from the rock ring around the cap. The following issues were identified:

- **Erosion:** Extensive erosion was observed across the cap at the crest of the top slopes, particularly on the southern and eastern boundaries of the cap. The approximate locations of major erosion are shown on the attached map. Precipitation running off of the cap has caused the fine-grained materials to wash out of the placed fill, leaving sandier materials in its place. In some areas, the erosion has formed gullies that are nearly two feet deep. With approximately 3.5 feet of clean cover on the cap, the erosion is not in immediate danger of breaching the GCL and drainage layer, but the eroded areas should be filled in, recompacted and continue to be observed. If erosion in these gullies is not addressed and is allowed to continue, it has the potential to expose the GCL and drainage layer. It should be noted that in an effort to improve the flow of water off of the cap and minimize erosion, previously observed gullies were filled in and rip rap lined drainage channels were installed on the cap slopes in 2014. These efforts appear to have been largely successful as the severity and frequency with which erosion gullies were observed has been reduced.

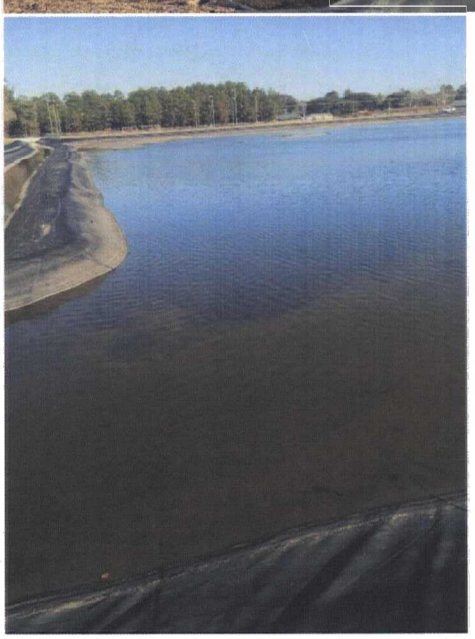


- **Ponding:** Due to the very low slopes present around the cap, ponding of surface water was observed at the toe of the slope on all four sides of the cap. Additionally, significant rains were encountered in the days leading up to the inspection, which is likely why some of the ponding was present onsite. This ponding was most significant on the southern edge of the cap as the southwest corner is the lowest elevation of the capped area. This ponding is not deemed to be an O&M issue, but a result of area topographical constraints, so no action is recommended to address this. Vegetation has begun to grow in the wet areas on the south side of the cap. Due to the soft and wet soils, this area is difficult for maintenance crews to access with equipment. If this area cannot be cleared safely and adequately during a dry period, hand equipment should be used to occasionally clear overgrown vegetation from this area so that the flow of surface water over this area is not impeded. Additionally, minor areas on top of the cap exhibited ponding of water, specifically, around the installed foundations. Ponding was observed around the backstop foundations, which is a result of the foundations impeding the shedding of precipitation. This ponding should be monitored and if the areas either stay wet or the areas surrounding the foundations become eroded, minor filling and grading around the foundations should be done to encourage the flow of water away from the foundations. Small amounts of water also collected on top of the light pole foundations as a result of the presence of the Sonotubes used to install them. The Sonotubes leave a small lip above the edge of the foundation that allow rain water to collect. The tops of these Sonotubes should be cut down to remove the lip and prevent the ponding of rainwater. Finally, all of the sleeves that were installed for the fence posts should have caps on them to prevent the sleeve from filling with water. Many of the sleeves were missing caps.

Surface Water Collection System: A 24 MG lined storm water pond, related appurtenances, piping and ditches are installed onsite. At the time of the inspection, the pond was approximately half full of storm water. The pond liner appeared to be in good and working condition at the time of the inspection. Headwalls, valves, check dams and drop inlets all appear to be in good working order. Issues observed with the collection system include siltation, vegetation growth and pulling of the liner.

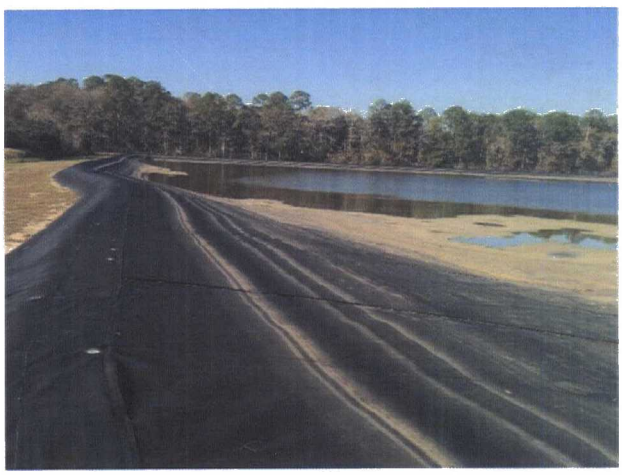
- **Siltation:** Heavy buildup of silt was observed in several areas of the pond, specifically at the pump outfall, in the vicinity of the gate valve that allows water into the pond at the northeast corner and at the pond outfall in the southwest corner. Silt buildup can prevent proper flow of water through the pond and encourage growth of vegetation, whose roots could compromise the liner system. When the pond is empty, the silt should be carefully removed with hand tools, taking care not to damage the liner. Additionally, in the areas where vegetation has taken root in the silt, the vegetation should be removed and the liner beneath inspected to ensure that the

liner was not compromised by the roots. Patching of the liner should be performed if it is found to have been compromised.



- **Pulling of the liner:** The liner was observed to be pulled taught in the southeastern corner of the pond such that it is no longer lying flat on the side slopes. This occurrence has been

observed previously and in 2014, additional liner was added around the pond to allow for slack in the liner. It appears that the liner was pulled taught at the time of inspection as a result of the partial filling of the pond. The southeastern corner of the pond did not contain water though the rest of the pond did contain water. The weight of the water in the other areas of the pond appears to be pulling the liner up from the side slope. Once the pond is empty, the tension should be relieved from the liner and it should once again lie flat against the side slopes. The anchor trenches in the southwestern corner of the pond did not show signs of stress or indication that the liner was slipping.



Vertical barrier walls: No evidence of settlement of the vertical barrier wall was observed. The performance of the wall and cap system is monitored using an array of pressure transducers which track the hydraulic head inside and outside the barrier wall. The transducers are inspected and maintained on a quarterly basis and are in good working order. The data is downloaded from the transducers on a bi-weekly basis and summary reports are submitted to the EPA on a quarterly basis, the last of which was submitted in December 2016. In December 2016, the hydraulic head differential around the cap varied from 5 to 7 feet with the greatest head difference being observed in the southwest corner. No evidence collected suggests that the groundwater inside the barrier wall is building up or that it is in danger of overtopping the wall. The groundwater elevations outside the wall have occasionally risen above the top elevation of the barrier wall, though there is no evidence that groundwater has flowed into the containment cell from the outside. There is a 24 inch layer of augmented clay (with soil cement at entrances) on top of the barrier wall that also acts to prevent flow into the containment cell from the outside.

Monitoring wells: Monitoring wells inspected were in good working order, properly secured and are routinely sampled. Wells in the ISCO treatment area are sampled on a quarterly basis and site-wide groundwater is generally monitored on an annual basis. The last quarterly ISCO event was conducted in January 2017 and the last annual event was completed in November 2015. Annual sampling should be resumed. Groundwater trends in the ISCO treatment area are generally declining or stable, but as the last application of oxidant was applied in April 2016, longer-term monitoring is needed to confirm this trend.

APPENDIX G – MEMORANDUM OF SCIENTIFIC SUPPORT SECTION REVIEW

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
61 Forsyth Street, SW
Atlanta, GA 30303-8960

June 20, 2017

MEMORANDUM

SUBJECT: First Five-Year Review Report,
Camilla Wood Preserving
Camilla, Mitchell County, Georgia

FROM: Sydney Chan, Life Scientist
Scientific Support Section

TO: Scott Miller, RPM
Restoration and Construction Section

THRU: Glenn Adams, Chief
Scientific Support Section

Per your request, Scientific Support Section (SSS) has reviewed the ***First Five-Year Review for Camilla Wood Preserving Superfund Site, Mitchell County, Georgia.*** Based on review of the First Five-Year Review (FYR), the following observations are provided for your consideration.

General Comments

After speaking with the Remedial Project Manager (RPM) and contractors, it is understood that there are no contaminated surficial soils available for direct contact at Camilla Wood Preserving site. It is recommended to add verbiage within the FYR to state that no contaminated surficial soils remain on site to avoid continual reevaluation of COCs in future FYRs. Pertaining to the adjacent landfill under GA EPD purview, a clarifying statement within the FYR is recommended stating that there is an agreement between EPA and GA EPD that the landfill is being addressed as a separate site under the State's lead.

Please note it is recommended to state how the risk assessment process was conducted for dibenzofuran to derive its cleanup goal. For example, the risk assessment used a sub-chronic reference dose in the calculation for a child resident. I was able to recreate cleanup levels, but with no direction, it was not clear how they were originally derived. The cleanup level is protective.

Pertaining to dioxins detected pre-remedial/removal work, new toxicity information has been released since the ROD goal was set. After talking to the RPM and contractor, along with data presented to SSS, there are no contaminated surficial soils left on-site to complete the direct contact exposure pathway. Due to the lack of contaminated surficial soils present, dioxins do not need to be reevaluated.

Data Review

The FYR states that 2-Methylnaphthalene, carbazole, dibenzofuran, B(a)P equivalent, naphthalene, manganese, arsenic, and benzene were detected above remedial goals in shallow

groundwater sampling conducted in 2015. Pentachlorophenol was not detected in shallow and intermediate groundwater; however, the method detection limit was above the remedial goal. Additional sampling with detection limits set below the remedial goal is recommended to confirm the presence/absence of pentachlorophenol in groundwater. 2-Methylnaphthalene, carbazole, B(a)P equivalent, pentachlorophenol, dibenzofuran, naphthalene, acenaphthene, manganese, and arsenic were detected above remedial goals in intermediate groundwater sampling most recently conducted in 2015. Continued monitoring of all of these contaminants with detection limits lower than the remedial goals is recommended.

Please contact me at 404-562-8907 or if you have any comments or questions regarding this review.

APPENDIX H – POND BERM MEMO

BLACK & VEATCH
Building a world of difference.

MEMORANDUM

U.S. Environmental Protection Agency
Camilla Wood Preserving Site
Changes to the Storm Water System Design

B&V Project 049062
B&V File 49062-0145-01-I-01230R0
July 2, 2012

To: Scott Miller, EPA Remedial Project Manager

From: Carrie McCoy, Black & Veatch Task Order Manager

On June 26, 2012, Garrett Consulting, Inc. (GCI), the subcontractor completing the storm water improvements and soil excavation activities at the Camilla Wood Preserving Site, was attempting to remove standing storm water from the southern portion of Ditchline 2 using a pump. GCI was pumping water from the ditch and into the existing storm water pond in order to prepare the ditch for grading. During these pumping activities, a hose coupling came loose and the water being pumped ran over the northern side of the existing pond berm. This flow saturated the berm and caused a failure of the slope (picture attached). During inspection of the slope materials following this failure, the soils inside this berm were identified as predominantly sands with waste materials intermixed. The failed materials were extremely soft and lacking in structural properties desirable for a pond containment berm. As a result, Black & Veatch and GCI identified concerns regarding the stability of the materials in both the landfill (known buried waste) and existing pond berm and the risk of failure associated with installing both the flow pipe and overflow spillway between proposed Ditchline 2 and the existing pond.

Black & Veatch and GCI agree that it would be in the best interest of all parties that disturbance to the existing landfill slopes and existing pond as part of the planned storm water improvements be minimized and eliminated, where possible. As such, Black & Veatch recommends that the proposed new 7-acre pond serve as the primary storm water containment structure for the site. Proposed specific changes to the current construction plans are as follows (figure attached):

1. Ditchline 1 - This Ditchline will now connect to the northwest corner of the new 7-acre storm water pond instead of connecting directly into the existing pond outfall at the southwest corner of the property.
    a. Construct a parallel ditch adjacent to existing Ditchline 1 that will handle flow from the City pump in the future (once the new pond system is operational).
    b. Once the new Ditchline 1 alignment has been installed and lined, completely backfill the current alignment of Ditchline 1.
    c. Eliminate the 24" high density polyethylene (HDPE) overflow relief pipe (with headwalls and man bars) between the northwest corner of the new pond and existing Ditchline 1.
    d. Eliminate the spillway between the new pond and existing Ditchline 1.
    e. Eliminate the outflow pipe (with headwalls and man bars) at the southwest corner of the new pond that connects the new pond and existing Ditchline 1.

2. Ditchline 2
    a. North of intersection with Ditchline 3 – Instead of lining this ditch as planned, backfill the ditch and install an 18" HDPE pipe (with headwall and man bars).
    b. South of intersection with Ditchline 3 – Instead of lining this ditch as planned, backfill the ditch and grade up to the bank of the landfill.
        i. Reconfigure the proposed 6" polyvinyl chloride (PVC) drain pipe and drain grate near the northeast corner of the new pond so that it drains into the new pond.
        ii. Eliminate the proposed 24" HDPE relief pipe (with headwalls and man bars) between Ditchline 2 and the NE corner of the new storm water pond.
        iii. Eliminate the 24" HDPE outfall pipe (with headwalls and man bars) between Ditchline 2 (outside south end of new pond)and the existing storm water pond.
    c. Install junction box at confluence of Ditchline 2 and Ditchline 3. Connect above 18" HDPE pipe into junction box.
    d. Install an 18" HDPE pipe into the proposed junction box at the confluence of Ditchline 2 and Ditchline 3 which will route water into the northeast corner of the new storm water pond.

3. Ditchline 3
    a. Install a junction box at the end of the existing 15" corrugated metal pipe (CMP) pipe that enters the site beneath Thomas Street. Install new 18" HDPE pipe from this junction box all along Ditchline 3 and connect into the proposed junction box at the confluence of Ditchline#2 and Ditchline 3. Ditchline 3 will then be backfilled completely and graded to match the existing grade along the north side of the ditchline and the landfill bank or edge of fence along the south side of the ditchline.

4. New Pond
    a. Install a 24" outlet pipe that will connect the southwest corner of the new pond to the existing catch basin/outlet structure in the northwest corner of the existing pond.
    b. Install the 24" manual gate valve on the outlet pipe between the southwest corner of the new pond and the existing catch basin/outlet structure in the northwest corner of the existing pond.
    c. Install a bermed channel along the interior western floor of the pond to channel pumped ditchline #1 storm water towards the new pond outlet pipe.
    d. Realign the footprint of the new pond to account for the additional space created by backfilling the southern portion of Ditchline 1 and all of Ditchline 2.

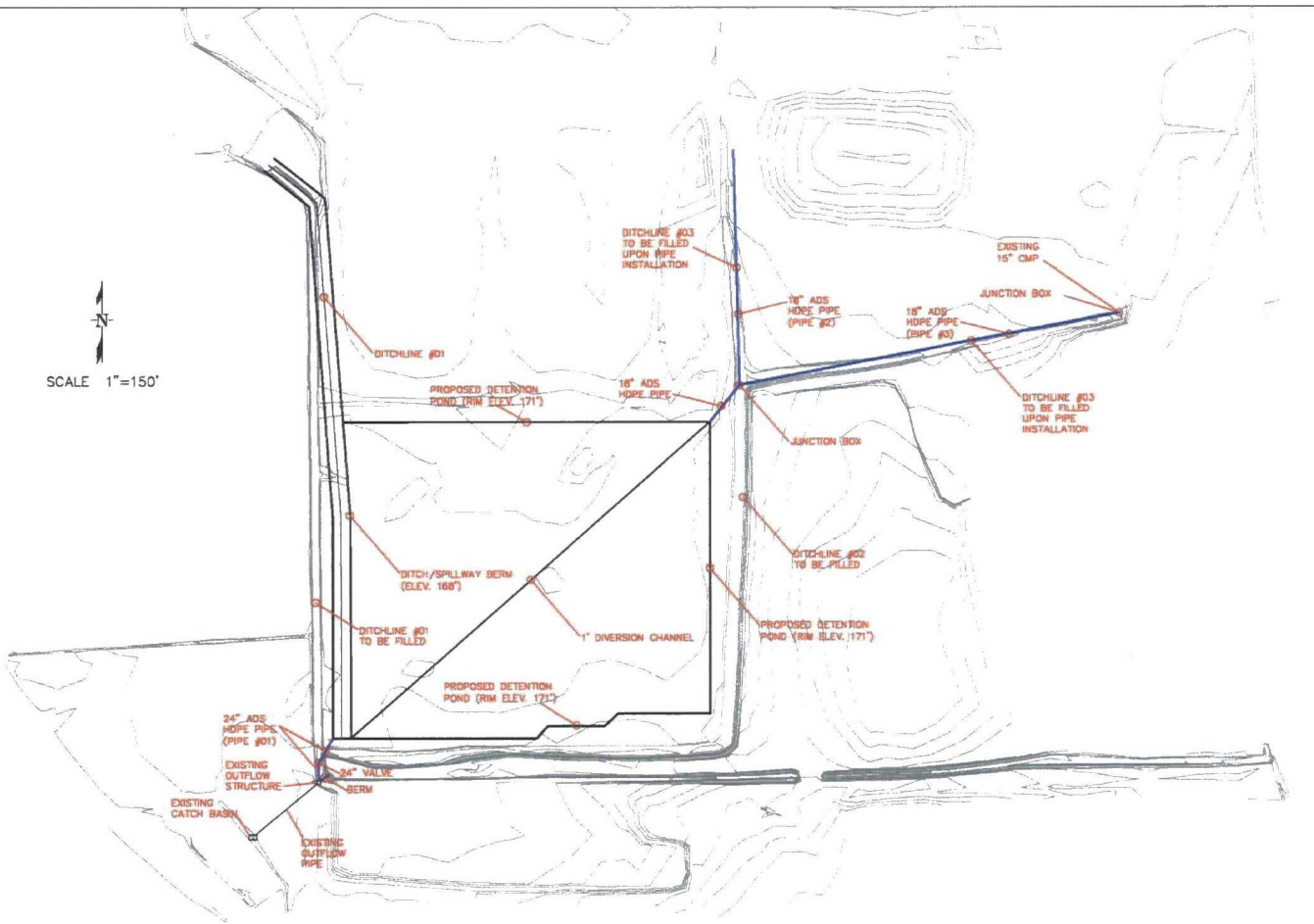
5. Existing Pond
    a. The outflow pipe will no longer be connected to or controlled by the 24" manual gate valve.

b. The opening in the bottom of the exiting catch basin/outlet structure will no longer be permanently closed off.
c. Install a berm at the northwestern corner of the existing pond to separate flows into this pond from the flow from the new pond.
d. Eliminate the spillway between the existing pond and new pond.

Of particular note in the above plan is that the existing pond will be allowed to function as it currently does and will no longer have a gate valve installed to control the outflow. The gate valve will instead be installed between the new pond and the outfall catch basin such that only the flows into the new pond will be controlled by the valve. As a result of the slope failure of the existing pond berm, Black & Veatch has grave concerns about potential effects of hydrostatic pressure that would be exerted on this berm by allowing the existing pond to fill routinely. Further, the potential for additional slope failures resulting from installation of the flow pipe and spillway is high.

It is Black & Veatch's recommendation that the design changes outlined herein be implemented. These changes present the best alternative while mitigating the inherent risk associated with manipulating the existing pond and landfill for all parties.

Photo #1: Repaired failure of the existing pond berm between the southern end of Ditchline 2 and the existing pond.


N
SCALE 1"=150'
DITCHLINE #03 TO BE FILLED UPON PIPE INSTALLATION
EXISTING 15" CMP
JUNCTION BOX
18" ADS HDPE PIPE (PIPE #2)
18" ADS HDPE PIPE (PIPE #3)
DITCHLINE #01
PROPOSED DETENTION POND (RIM ELEV. 171')
18" ADS HDPE PIPE
DITCHLINE #03 TO BE FILLED UPON PIPE INSTALLATION
JUNCTION BOX
DITCHLINE #02 TO BE FILLED
DITCH/SPILLWAY BERM (ELEV. 168')
1' DIVERSION CHANNEL
PROPOSED DETENTION POND (RIM ELEV. 171')
DITCHLINE #01 TO BE FILLED
PROPOSED DETENTION POND (RIM ELEV. 171')
24" ADS HDPE PIPE (PIPE #01)
EXISTING OUTFLOW STRUCTURE
24" VALVE
BERM
EXISTING CATCH BASIN
EXISTING OUTFLOW PIPE