

RAC2 TECHNICAL STATUS REPORT

January 1, 2011 to January 28, 2011

WORK ASSIGNMENT NUMBER: 004-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 344511
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: January 28, 2011

COPIES: RPM: Denise Boone, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Bill Schultz, WDNR, Rhinelander, WI
WDNR: Pete Prusak, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task A (PP)

- Monthly project management activities were performed.
- The bid package for the planting of additional trees on the western side of the site driveway was solicited on January 17.

Task B (PJ)

- During the reporting period, an estimated 1.6 million gallons of groundwater was treated and discharged. To date, 130 million gallons of water have been treated. During this reporting period, an estimated 551 gallons of liquid waste was recovered. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 42,906 gallons.
- Based on the potential for methane migration because of the snow cover, the biovent system was shut down on October 22 for the winter months – similar to the winter months of 2008–2009 and 2009–2010. Soil gas readings collected prior to previous shutdowns indicate that oxygen levels remain the same or decrease slightly during the time the bioventing system is shut down. Based on the oxygen use observed during the 2009–2010 shutdown, it is not anticipated that the oxygen level will drop below the 5 percent minimum level for aerobic biodegradation during the shutdown period. The system will resume operation in the spring.
- On January 3, Earth Energy was onsite to replace fan belts and to set the temperature control sensor on the heater in the main process room.
- On January 11, North Shore Environmental picked up approximately 12 tons of filter cake. Approximately 14 tons of spent carbon was picked up on January 25.

- On January 12, Northland Fire and Safety was onsite for the annual inspection and service of the site fire extinguishers.
- On January 18 and 19, Siemens Water Technology, Inc. completed a carbon changeout on the small (2,500-pound) and large (10,000-pound) granular activated carbon vessels.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table at the end of this report. The concentrations of analytes were in compliance with the discharge criteria in WPDES Permit No. WI-0061531-01-0.

Task C (CV)

- Operational monitoring was continued under this task.

Task D (PC)

- None.

Task E (MS)

The following items were completed through this reporting period:

Summary of Drilling Progress			
Location	Description	Date Completed	Depth
EW-12	Pilot Boring	12/07/10	164
EW-12	Nested Extraction Well Construction	In Progress	
EW-13	Pilot Boring	12/01/10	170
EW-13	Nested Extraction Well Construction	01/18/11	155
EW-13	Development	01/27/11 (GW)	NA
EW-14	Pilot Boring	11/22/10	175
EW-14	Nest Extraction Well Construction	01/05/11	153
EW-14	Development	01/14/11	NA
MW-27	Monitoring Well Drilling and Construction	12/17/10	135
MW-28	Monitoring Well Drilling and Construction	12/10/10	140

- Following the completion of the development for EW-13 and EW-14, a groundwater sample was collected and submitted to the laboratory for pentachlorophenol (PCP) analysis.
- HIS Constructors, Inc. (HIS) mobilized to the site on January 4. The following table shows the tasks they have completed through the reporting period:

Summary of Well Connection Progress		
Description	Date Started	Date Completed
Mobilization	01/04/11	01/04/11
Electrical and piping installation in the building	01/05/11	In progress
Building penetrations	01/06/11	01/12/11
Connection to EW-12		
- Excavation/trenching	01/18/11	In progress
- Installation of well vaults	Next reporting period	
- Installation of pitless adaptor	Next reporting period	
- Backfilling of trench	Next reporting period	
Connection to EW-13		
- Excavation/trenching	01/18/11	02/01/11
- Installation of well vaults	01/31/11	01/31/11
- Installation of pitless adaptor	01/30/11	01/30/11
- Backfilling of trench	01/27/11	In progress
Connection to EW-14		
- Excavation/trenching	01/18/11	In progress
- Installation of well vaults	01/27/11	01/27/11
- Installation of pitless adaptor	01/27/11	01/27/11
- Backfilling of trench	01/27/11	In Progress
Start up and system shake down	Anticipated to start week of February 14	

- Mark Orman travelled to the site on January 11 to perform a health and safety audit of the two subcontractors (Layne and HIS).

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
A (PP)	07/01/06	07/01/06	03/14/11		90	0
B (PJ)	07/29/06	07/29/06	03/14/11		93	0
C (CV)	07/29/06	07/29/06	03/14/11		85	0
D (PC)	07/29/06	07/29/06	03/14/11		90	0
E (CO)	03/01/11		03/14/11		0	0
F (RV)	02/01/09	02/01/09	03/14/11		47	0
G (MS)	08/01/10	08/01/10	03/14/11		60	0

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

The current project budget will be spent at the completion of the base period. A new work assignment is needed to continue operation into the option period.

During development of the free product recovery well in extraction well nest EW-13, an obstruction was found within the screened interval of the well. The subcontractor will be bringing in a down-hole camera to determine what the obstruction is and if there is any damage to the well.

4. Deliverables Submitted

- The analytical results and Level IV data package for the resampling of residential well RW-01, collected for benzene, toluene, ethylbenzene, and xylene (BTEX), in November 2010 were submitted to USEPA on January 4.

5. Activities Planned Next Reporting Period

Task A (PP)

- Monthly project management activities will be performed.
- The bids received for the planting of additional trees on the western side of the site driveway will be evaluated during the next reporting period.

Task B (PJ)

- Operation of the groundwater treatment system will continue.

Task C (CV)

- Sample management tasks will be performed as the results from the operational monitoring and extraction well sample collection are received from the laboratory.

Task D (PC)

- CH2M HILL will continue preparing the *2010 Interim Long-Term Remedial Action Annual Report*. A draft report will be submitted to USEPA during the next reporting period. The data used to generate this report has not been fully validated by USEPA. The final report will be submitted during the option period once all validated data has been received.

Task E (MS)

- Construction of the final nested extraction well EW-12 will be completed. Following development of this well, a groundwater sample will be collected. The remaining vaults, pitless adaptors, and pumps will be installed. Trenching and installation of the piping and electrical conduit on the corrective action management unit will be completed and backfilled. The final mechanical and electrical connections in the building will be completed and startup is anticipated to occur the week of February 14.
- Sample management tasks will be performed as the results from the extraction well sample collection are received from the laboratory.

6. Key Personnel Changes

None.

7. **Subcontractor Services**

Drilling Services:	Layne Christensen Company
Earthworks/well connections:	HIS Constructors, Inc
Electrical service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic service:	A-1 Septic Service
Nonhazardous waste disposal:	Allied Waste Services
Polymer:	U.S. Water Services
Propane tank and gas:	Hedlunds Gas, Inc.
Contaminated media removal:	Siemens Water Technologies, Inc.
Hazardous waste disposal:	North Shore Environmental Construction, Inc.
Treatment system chemicals:	Glacier Pure, Inc.
Diatomaceous earth supplier:	Alar Engineering Corp.
Road maintenance, erosion control, and repair:	Brust Excavating
Analytical laboratory services:	Environmental Monitoring and Technologies, Inc.

8. **Travel**

Travel for Craig Haas in November and December was reported in previous month's Technical Status Reports.

Travel for Keli McKenna was reported in last month's Technical Status Report.

Craig Haas travelled to the site January 1 to January 28 to perform oversight of the drilling and earthworks/well connection activities. Travel charges from January 15 - 28 will be invoiced during the next reporting period.

Mark Orman travelled to the site on January 11 through January 13 to perform health and safety audit of the construction activities. Travel charges will be invoiced during the next reporting period.

Mike Niebauer travelled to the site on January 13 to January 17 to assist with the mobilization of the earthworks/well connections subcontractor. Travel charges will be invoiced during the next reporting period.

9. **Laboratories**

System monitoring samples were submitted to Environmental Monitoring and Technologies, Inc., of Morton Grove, Illinois, for analysis. It is a Wisconsin-certified laboratory with the subcontract for 2008 to 2011 analytical services.

10. **Project Performance**

The following tasks with associated performance criteria were active this month.

Task A – LTRA Monthly Progress Report

- The Technical Status Report for December 2010 was submitted, meeting the performance standard.

Task B – Groundwater Containment and Bioventing

- The groundwater treatment system had temporary shutdowns; however, the alarms were acknowledged within 24 hours. Therefore, the groundwater treatment system met the performance standard for this period, based on the approved clarification.
- Running the bioventing system for an extended time during the winter is a safety concern because the frozen soils can act as a cap, preventing upward release of methane and resulting in migration of methane. Soil gas measurements indicated sufficient oxygen is present in the subsurface to support aerobic biodegradation. As recommended in 2008, the bioventing system was shut down on October 22 for the winter because of the health and safety concerns of methane migration. The bioventing system can remain off throughout the winter, without appreciably affecting the biodegradation of PCP in the subsurface, and will provide cost savings on energy consumption. The bioventing system did operate for 5 days in October in accordance with the modified operation schedule prior to the shutdown. Therefore, the bioventing system met the performance standard for this period.

Task C – Groundwater Treatment

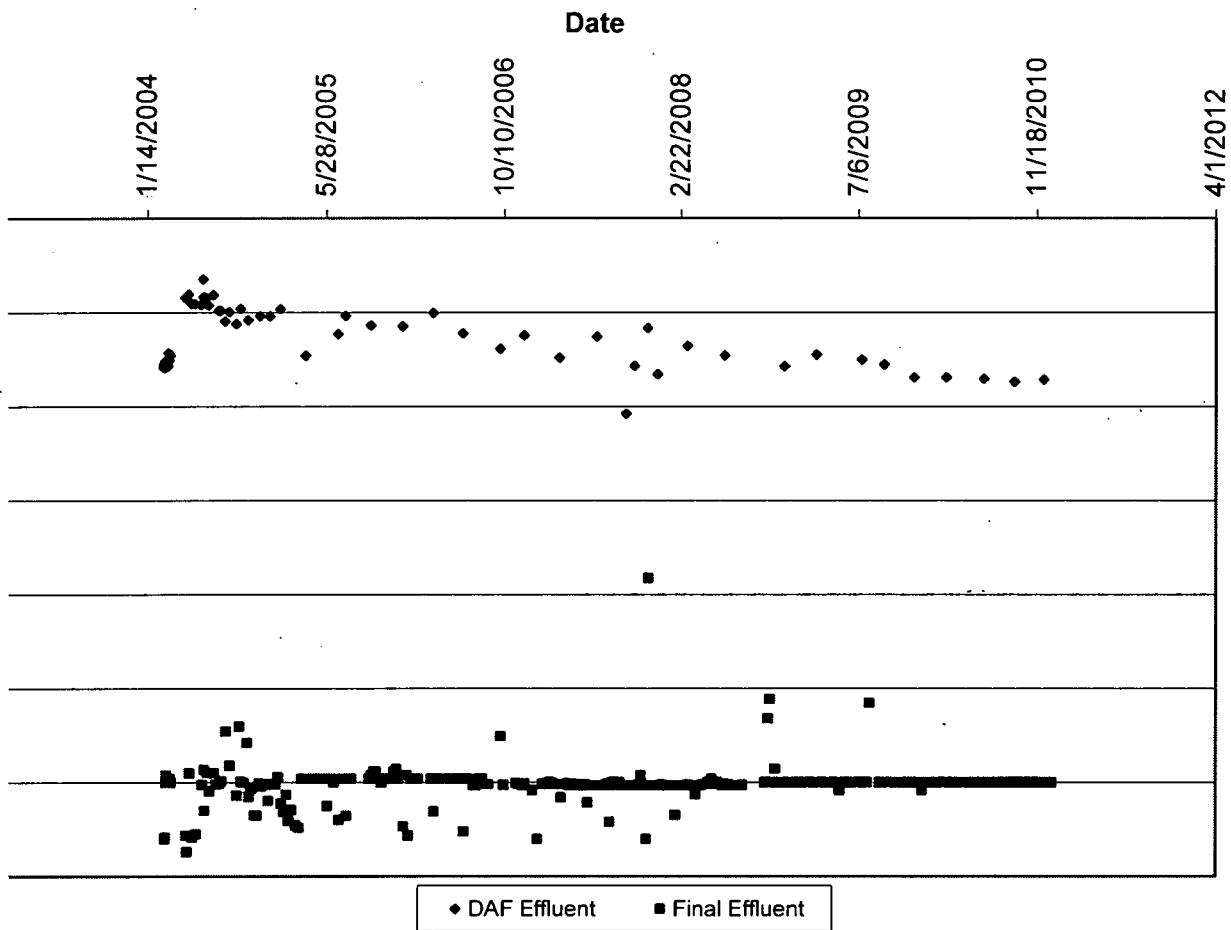
- Treatment system effluent sampling results met the discharge criteria in the WPDES Permit No. WI-0061531-01-0, meeting the performance standard.

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Follow water quality trends in monitoring wells to determine if the plume is migrating.	CH2M HILL continues to evaluate the PCP data to determine if the plume is expanding and if additional monitoring sites are needed. PCP concentrations generally decreased from 2004 to 2007 throughout the site – including consistent decreases in MW-9 and MW-13, both in the northeastern part of the site. PCP concentrations in 2007 were 0.37 microgram per liter (µg/L) in MW-9 and 0.53 µg/L in MW-13 – the lowest concentrations measured in the wells since 2001. Installation of a monitoring well to the east, in the direction of two residences, does not appear to be warranted based on the current data and trends.
Provide more accurate prediction of consumables and disposal costs.	The budget for the Long-Term Remedial Action (LTRA) work plan is more accurate because of the availability of actual costs from previous years. CH2M HILL has established tracking tools for consumable and disposal costs since the beginning of this work assignment. The overall system operations have improved, causing some costs to decrease (for example, longer run cycles between carbon changeouts has resulted in decreased carbon changeouts and disposal costs) and others to increase (for example, increased operating time increased the light nonaqueous phase liquid [LNAPL] and filter cake disposal cost). CH2M HILL continues to optimize the system performance and to decrease overall operations and maintenance costs.
Consider modifying management of granular activated carbon units.	<p>CH2M HILL evaluated options for reducing the carbon changeout frequency, including the overall evaluation of system operations, jar testing, additional chemical conditioning to reduce solids loading, and a carbon backwash system. While the system optimization was being performed, a procedure was implemented for the partial changeout of the carbon vessels (removing the top quarter of the carbon where solids loading was occurring) to extend the life of the carbon and to reduce carbon changeout and disposal costs.</p> <p>After the overall system evaluation and jar tests were completed, improvements to the operating procedures were implemented. Those efforts significantly reduced the solids loading to the carbon vessels, resulting in carbon changeout frequencies of about 12 weeks, which exceeds the maximum cycles achieved historically. Although the additional chemical conditioning and carbon backwashing can be effective, methods for increasing the run cycle of the carbon, the use of the carbon (that is, breakthrough analysis) needs to be determined to calculate whether the run cycles can be improved still more.</p>
Eliminate redundant or unnecessary laboratory analysis.	<p>Historical metals data were reviewed to verify that elimination of total metals from the annual sampling of the monitoring wells would not affect data evaluation. As instructed by USEPA, CH2M HILL eliminated the total metals analysis from the groundwater sampling events.</p> <p>As instructed by USEPA, CH2M HILL will not eliminate the spring sampling event until sufficient data exists to fully evaluate the contaminant plume. Eliminating the spring sampling event in 2010 is being considered.</p> <p>CH2M HILL reviewed the number of locations and frequency of the sampling performed during the annual groundwater sampling events and presented USEPA with recommended reductions in the number of sampling locations. The reduced sampling network was started during the spring 2009 sampling event.</p> <p>CH2M HILL reviewed the WPDES discharge sampling requirements and recommended a reduction in the analyses and frequency of sample collection. The WDNR accepted some of the recommendations, which will result in an annual cost savings of \$3,800. The revised sampling program began under the new WPDES Permit No. WI-0061531-01-0, effective January 1.</p>

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Investigate possibility of declassifying waste.	CH2M HILL investigated the possibility of declassifying the waste and determined that this is infeasible because of the continued presence of LNAPL, which is considered a listed hazardous waste.
Use dedicated pumps in monitoring wells.	<p>The use of dedicated pumps has reduced CH2M HILL's overall level of effort (LOE) for the sampling events. The CH2M HILL plant operator will continue to serve as a field team member to achieve the further reduction of travel costs. It is estimated that the use of dedicated pumps has eliminated the need for a second sampling team during the semiannual sampling event. This equates to 2 people for 3 days, including labor and travel costs. The annual sampling event was reduced by 1 person for 4 days, including labor and travel costs.</p> <p>Use of the dedicated pumps has also provided more representative groundwater data. For example, pumps installed in wells where LNAPL is present now can be sampled without collecting entrained free product. Measured groundwater concentrations have significantly decreased in the wells with LNAPL.</p>
Decrease project management/reporting costs.	CH2M HILL expects project management costs to decrease during the LTRA. Data management costs may remain high because of the volume of analytical data generated for the site and the LOE hours associated with meeting USEPA reporting requirements. CH2M HILL continues to monitor the monthly project management cost and has established an LOE for staff for the remainder of the assignment. An unexpected change in the permanent operator resulted in a monthly LOE higher than the target until the replacement operator was identified and permanently relocated to Siren, Wisconsin. Since that time, the monthly LOE for both project management and subcontractor management has been less than the established LOE.
Develop tracking of routine and nonroutine costs.	For this LTRA, CH2M HILL is tracking routine and nonroutine maintenance activities and the associated costs. CH2M HILL uses this tracking tool to investigate opportunities for optimizing the system and reducing costs wherever possible.
Evaluate potential to reduce groundwater extraction without substantially affecting LNAPL recovery.	<p>As part of the data evaluation activities for the LTRA, CH2M HILL continues to monitor and evaluate recovery of LNAPL and containment of the dissolved plume to determine the potential for reduced groundwater pumping. An LNAPL recovery optimization test was performed the week of May 7, 2009, to evaluate the effect of the cone of depression on recovery. The results of the test, presented in a technical memorandum on June 29, 2009, indicated that LNAPL recovery is not affected by a change in the groundwater extraction rate.</p> <p>The groundwater extraction rate was reduced to 55 gallons per minute, and the treatment system has maintained capture of the PCP dissolved contamination. Additional operational procedures were implemented to ensure that the LNAPL recovery pumps are at the proper depth in the recovery well to account for water table fluctuations.</p>
Adjust pH to 6.5 instead of 7.	As instructed by USEPA, CH2M HILL has implemented this recommendation.

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Transition from groundwater extraction and LNAPL recovery system to bioventing system and intrinsic remediation.	<p>CH2M HILL started the bioventing system in September 2007 and collected soil gas data over 575 hours of operation. The system was shut down over the winter months, and changes in condition were monitored. The shutdown did not appreciably affect the biodegradation of PCP in the subsurface, but provided cost savings on energy usage.</p> <p>The bioventing system will be restarted after the spring groundwater sampling event and operated until the shallow soils are fully oxygenated. Based on the data collected during operation, once the shallow soils are oxygenated, the intermediate and deep soils will also be oxygenated. The system then can be operated in a pulsed mode, so that oxygen is maintained above 5 percent at all locations to promote aerobic degradation. The ongoing operating schedule of the bioventing system will be determined based on results of soil gas monitoring following spring startup. Bioventing will be performed concurrently with the LNAPL recovery system.</p>

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
0.10U					-	0.10UJ	-	1.0U	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10UJ	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10UJ	-	-	-	-	-	-	-	-	-	-	-		
0.10U					3.0U	0.10U	8.4UJ	1.0U	0.10U	0.4U	0.4U	1.0U	2.0U	10U	13	238J	1,030		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	33	31	367	1510		
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
-					-	0.10UJ	-	-	-	-	-	-	-	-	-	-	-		

WPDES SAMPLING SUMMARY

Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L; 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
0.10U					-	0.10U	-	1.0U	-	-	-	-	4.4	3.2	14	389	904	-	-
-					-	NR	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-

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-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
-					-	NR	-	-	-	-	-	-	-	-	-	-	-		

cancelled based on the results of the quick turnaround time samples.
 le from the laboratory.
 mple.

ol issues.
 : the stated limit.
 of WPDES monitoring in Technical Status Report text.

RAC2 TECHNICAL STATUS REPORT

January 29, 2011 to February 25, 2011

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SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 344511
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: February 25, 2011
COPIES: RPM: Denise Boone, USEPA Region 5
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RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Bill Schultz, WDNR, Rhinelander, WI
WDNR: Pete Prusak, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task A (PP)

- Monthly project management activities were performed.

Task B (PJ)

- During the reporting period, an estimated 0.8 million gallons of groundwater was treated and discharged. To date, 131 million gallons of water have been treated. During this reporting period, an estimated 58 gallons of liquid waste was recovered. The amount of liquid waste recovery has been potentially affected by the drilling operations occurring at the site. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 42,964 gallons.
- Based on the potential for methane migration because of the snow cover, the biovent system was shut down on October 22 for the winter months – similar to the winter months of 2008–2009 and 2009–2010. Soil gas readings collected prior to previous shutdowns indicate that oxygen levels remain the same or decrease slightly during the time the bioventing system is shut down. Based on the oxygen use observed during the 2009–2010 shutdown, it is not anticipated that the oxygen level will drop below the 5 percent minimum level for aerobic biodegradation during the shutdown period. The system will resume operation in the spring.
- On February 1, Maurer Power was onsite to troubleshoot the variable frequency drive (VFD) for the filtrate pump.
- On February 4, Town of Daniels was onsite to snowplow and sand the site driveway.

- On February 4, Hedlund Gas, Inc., delivered approximately 900 gallons of propane to the site. It delivered approximately 1,000 gallons of propane on February 18.
- On February 7, Glacier Pure Inc. delivered approximately 45,000 pounds of ferric sulfate to the site.
- On February 7, US Water Services delivered two 5-gallon totes of polymer to the site.
- On February 15, North Shore Environmental picked up about 14 tons of filter cake.
- On February 17, Clayhill performed routine annual service on the air dryers and air compressors.
- On February 17, Maurer Power was onsite to replace the light bulbs in the granular activated carbon (GAC) room with the bucket truck.
- On February 21, the Burnett County Highway Department was onsite to snowplow and sand the site driveway.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table at the end of this report. The concentrations of analytes were in compliance with the discharge criteria in WPDES Permit No. WI-0061531-01-0.

Task C (CV)

- Operational monitoring was continued under this task.

Task D (PC)

- Preparation of the 2010 Annual Report continued.

Task E (MS)

The following items were completed by Layne Christensen Company through this reporting period:

Summary of Drilling Progress			
Location	Description	Date Completed	Depth
EW-12	Pilot Boring	12/07/10	164
EW-12	Nested Extraction Well Construction	02/01/11	150
EW-12	Development	02/09/11	NA
EW-13	Pilot Boring	12/01/10	170
EW-13	Nested Extraction Well Construction	01/18/11	155
EW-13	Development	01/27/11	NA
EW-14	Pilot Boring	11/22/10	175
EW-14	Nest Extraction Well Construction	01/05/11	153
EW-14	Development	01/14/11	NA
MW-27	Monitoring Well Drilling and Construction	12/17/10	135
MW-28	Monitoring Well Drilling and Construction	12/10/10	140
All EWs	Installation of Pumps	02/18/11	NA

- Following the completion of the development for EW-12, a groundwater sample was collected and submitted to the laboratory for pentachlorophenol (PCP) analysis.
- The remaining vaults, pitless adaptors, and pumps were installed. Trenching and installation of the piping and electrical conduit on the corrective action management unit was completed and backfilled.
- The following table shows the tasks they have completed by HIS Constructors, Inc., through the reporting period:

Summary of Well Connection Progress		
Description	Date Started	Date Completed
Mobilization	01/04/11	01/04/11
Electrical and piping installation in the building	01/05/11	02/01/11
Building penetrations	01/06/11	01/12/11
Connection to EW-12		
- Excavation/trenching	01/18/11	02/07/11
- Installation of well vaults	02/07/11	02/07/11
- Installation of pitless adaptor	02/10/11	02/10/11
- Backfilling of trench	02/07/11	02/08/11
Connection to EW-13		
- Excavation/trenching	01/18/11	02/01/11
- Installation of well vaults	01/31/11	01/31/11
- Installation of pitless adaptor	01/30/11	01/30/11
- Backfilling of trench	01/27/11	02/01/11
Connection to EW-14		
- Excavation/trenching	01/18/11	01/28/11
- Installation of well vaults	01/27/11	01/27/11
- Installation of pitless adaptor	01/27/11	01/27/11
- Backfilling of trench	01/27/11	02/02/11
Startup and system shakedown	Anticipated to start week of February 28	

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
A (PP)	07/01/06	07/01/06	03/14/11		93	0
B (PJ)	07/29/06	07/29/06	03/14/11		95	0
C (CV)	07/29/06	07/29/06	03/14/11		90	0
D (PC)	07/29/06	07/29/06	03/14/11		93	0
E (CO)	03/01/11		03/14/11		0	0
F (RV)	02/01/09	02/01/09	03/14/11		47	0
G (MS)	08/01/10	08/01/10	03/14/11		90	0

2. **Problems Resolved**

On February 15, a valve on the differential pressure gauge, which is connected to the bag filters, started to leak. The operator shut the system down and disassembled the valve and found it to be rusted out. A new valve was ordered and arrived on February 17 and was immediately installed. Another leak was observed, new parts were ordered. The new parts were installed and all adjoining parts were tightened. The system was restarted on February 20 and the manifold has been fully operational.

During development of the free product recovery well in extraction well nest EW-13, an obstruction was found within the screened interval of the well preventing the installation of the free product pump. The drilling subcontractor brought in a down-hole camera to determine if there is any damage to the well. Based on the camera observations, it is believed that a boulder from the foundation dimpled the well screen as the drill casing was extracted. The camera was 2 inches in diameter and freely moved to the bottom of the extraction well; therefore, it was determined that a smaller diameter free product pump could be used as an alternative without reducing recovery of light nonaqueous phase liquid (LNAPL).

3. **Problem Areas and Recommended Solutions**

The current project budget is estimated to be spent at the completion of the Base Period. A new work assignment is needed to continue operation into the Option Period.

On February 20, the site operator noticed ineffective sludge removal in the dissolved air floatation (DAF) unit. All lines, motors and valves were checked for leaks and determined that the solenoid in the control panel was leaking. Replacement parts were ordered and arrived on February 24. The parts were installed the same day and the system was restarted. The operator observed high turbidity in the DAF discharge. The DAF was drained, and air and water lines cleaned. The system was restarted and is operating normally.

4. **Deliverables Submitted**

None.

5. **Activities Planned Next Reporting Period**

Task A (PP)

- Monthly project management activities will be performed.
- Once a new Work Assignment is received, select purchase orders will be extended until they can be rebid.

Task B (PJ)

- Operation of the groundwater treatment system will continue.

Task C (CV)

- Sample management tasks will be performed as the results from the operational monitoring and extraction well sample collection are received from the laboratory.

Task D (PC)

- CH2M HILL will continue preparing the *2010 Interim Long-Term Remedial Action Annual Report*. A draft report will be submitted to USEPA during the next reporting period. The data used to generate this report has not been fully validated by USEPA. The final report will be submitted during the Option Period once all validated data has been received.

Task E (MS)

- The final testing of equipment will be completed and startup is anticipated to occur the week of February 28.

6. Key Personnel Changes

None.

7. Subcontractor Services

Drilling Services:	Layne Christensen Company
Earthworks/well connections:	HIS Constructors, Inc
Electrical service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic service:	A-1 Septic Service
Nonhazardous waste disposal:	Allied Waste Services
Polymer:	U.S. Water Services
Propane tank and gas:	Hedlunds Gas, Inc.
Contaminated media removal:	Siemens Water Technologies, Inc.
Hazardous waste disposal:	North Shore Environmental Construction, Inc.
Treatment system chemicals:	Glacier Pure, Inc.
Diatomaceous earth supplier:	Alar Engineering Corp.
Road maintenance, erosion control, and repair:	Brust Excavating
Analytical laboratory services:	Environmental Monitoring and Technologies, Inc.

8. Travel

Travel for Craig Haas in December and January, Mike Niebauer and Mark Orman in January, was reported in previous month's Technical Status Reports.

Craig Haas travelled to the site January 29 to February 25 to perform oversight of the drilling and earthworks/well connection activities. Travel charges from February 8 to 25 will be invoiced during the next reporting period.

Mike Lehman travelled to the site on February 1 to February 4 to perform oversight of the drilling and earthworks/well connection activities.

9. Laboratories

System monitoring samples were submitted to Environmental Monitoring and Technologies, Inc., of Morton Grove, Illinois, for analysis. It is a Wisconsin-certified laboratory with the subcontract for 2008 to 2011 analytical services.

10. Project Performance

The following tasks with associated performance criteria were active this month.

Task A – LTRA Monthly Progress Report

- The Technical Status Report for January was submitted, meeting the performance standard.

Task B – Groundwater Containment and Bioventing

- The groundwater treatment system had temporary shutdowns; however, the alarms were acknowledged within 24 hours. Therefore, the groundwater treatment system met the performance standard for this period, based on the approved clarification.
- Running the bioventing system for an extended time during the winter is a safety concern because the frozen soils can act as a cap, preventing upward release of methane and resulting in migration of methane. Soil gas measurements indicated sufficient oxygen is present in the subsurface to support aerobic biodegradation. As recommended in 2008, the bioventing system was shut down on October 22 for the winter because of the health and safety concerns of methane migration. The bioventing system can remain off throughout the winter, without appreciably affecting the biodegradation of PCP in the subsurface, and will provide cost savings on energy consumption. The bioventing system did operate for 5 days in October in accordance with the modified operation schedule prior to the shutdown. Therefore, the bioventing system met the performance standard for this period.

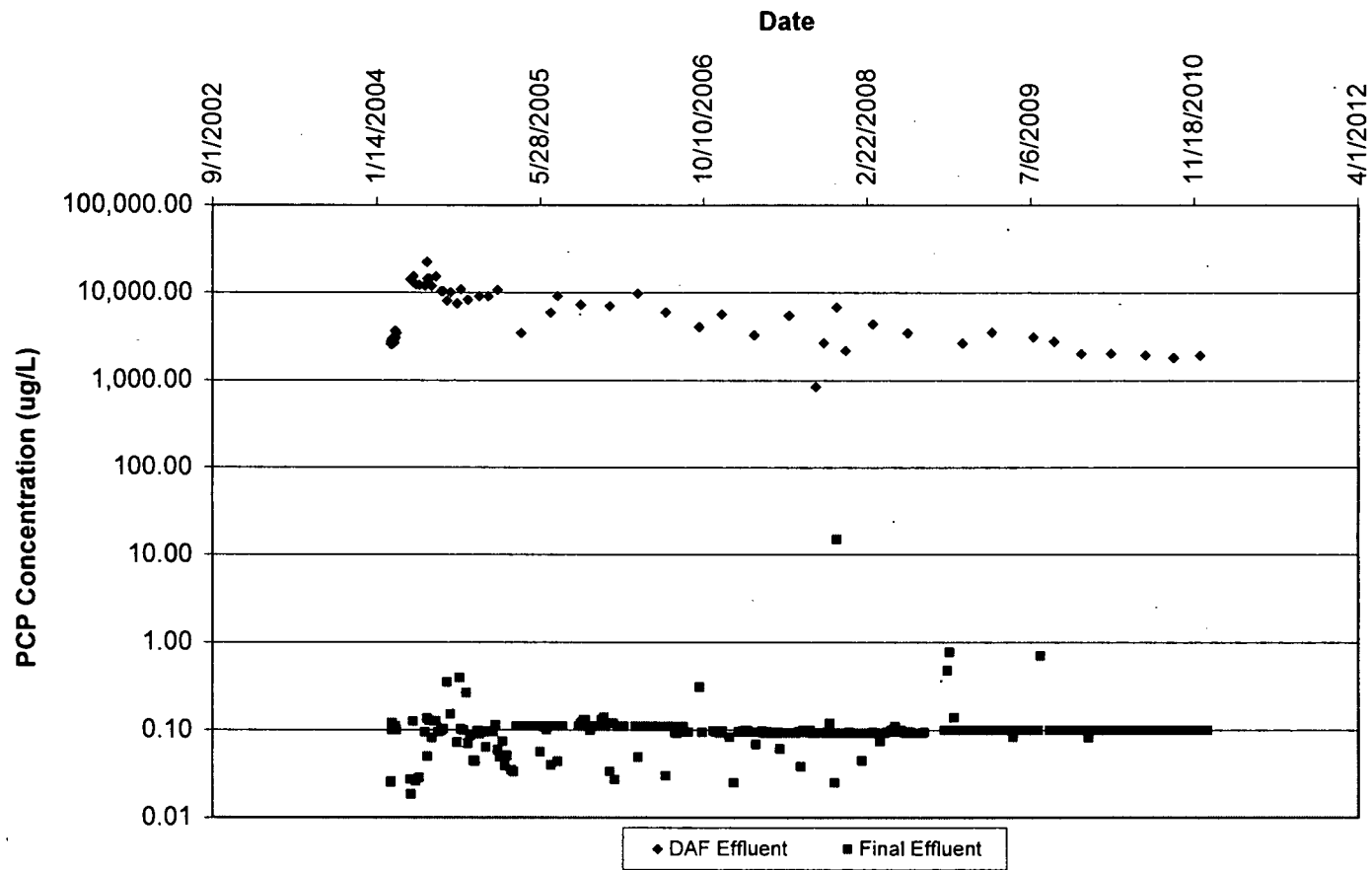
Task C – Groundwater Treatment

- Treatment system effluent sampling results met the discharge criteria in the WPDES Permit No. WI-0061531-01-0, meeting the performance standard.

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Follow water quality trends in monitoring wells to determine if the plume is migrating.	CH2M HILL continues to evaluate the PCP data to determine if the plume is expanding and if additional monitoring sites are needed. PCP concentrations generally decreased from 2004 to 2007 throughout the site – including consistent decreases in MW-9 and MW-13, both in the northeastern part of the site. PCP concentrations in 2007 were 0.37 microgram per liter (µg/L) in MW-9 and 0.53 µg/L in MW-13 – the lowest concentrations measured in the wells since 2001. Installation of a monitoring well to the east, in the direction of two residences, does not appear to be warranted based on the current data and trends.
Provide more accurate prediction of consumables and disposal costs.	The budget for the Long-Term Remedial Action (LTRA) work plan is more accurate because of the availability of actual costs from previous years. CH2M HILL has established tracking tools for consumable and disposal costs since the beginning of this work assignment. The overall system operations have improved, causing some costs to decrease (for example, longer run cycles between carbon changeouts has resulted in decreased carbon changeouts and disposal costs) and others to increase (for example, increased operating time increased the LNAPL and filter cake disposal cost). CH2M HILL continues to optimize the system performance and to decrease overall operations and maintenance costs.
Consider modifying management of granular activated carbon units.	CH2M HILL evaluated options for reducing the carbon changeout frequency, including the overall evaluation of system operations, jar testing, additional chemical conditioning to reduce solids loading, and a carbon backwash system. While the system optimization was being performed, a procedure was implemented for the partial changeout of the carbon vessels (removing the top quarter of the carbon where solids loading was occurring) to extend the life of the carbon and to reduce carbon changeout and disposal costs. After the overall system evaluation and jar tests were completed, improvements to the operating procedures were implemented. Those efforts significantly reduced the solids loading to the carbon vessels, resulting in carbon changeout frequencies of about 12 weeks, which exceeds the maximum cycles achieved historically. Although the additional chemical conditioning and carbon backwashing can be effective, methods for increasing the run cycle of the carbon, the use of the carbon (that is, breakthrough analysis) needs to be determined to calculate whether the run cycles can be improved still more.
Eliminate redundant or unnecessary laboratory analysis.	Historical metals data were reviewed to verify that elimination of total metals from the annual sampling of the monitoring wells would not affect data evaluation. As instructed by USEPA, CH2M HILL eliminated the total metals analysis from the groundwater sampling events. As instructed by USEPA, CH2M HILL will not eliminate the spring sampling event until sufficient data exists to fully evaluate the contaminant plume. Eliminating the spring sampling event in 2010 is being considered. CH2M HILL reviewed the number of locations and frequency of the sampling performed during the annual groundwater sampling events and presented USEPA with recommended reductions in the number of sampling locations. The reduced sampling network was started during the spring 2009 sampling event. CH2M HILL reviewed the WPDES discharge sampling requirements and recommended a reduction in the analyses and frequency of sample collection. The WDNR accepted some of the recommendations, which will result in an annual cost savings of \$3,800. The revised sampling program began under the new WPDES Permit No. WI-0061531-01-0, effective January 1.
Investigate possibility of declassifying waste.	CH2M HILL investigated the possibility of declassifying the waste and determined that it is infeasible because of the continued presence of LNAPL, which is considered a listed hazardous waste.

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Use dedicated pumps in monitoring wells.	<p>The use of dedicated pumps has reduced CH2M HILL's overall level of effort (LOE) for the sampling events. The CH2M HILL plant operator will continue to serve as a field team member to achieve the further reduction of travel costs. It is estimated that the use of dedicated pumps has eliminated the need for a second sampling team during the semiannual sampling event. This equates to 2 people for 3 days, including labor and travel costs. The annual sampling event was reduced by 1 person for 4 days, including labor and travel costs.</p> <p>Use of the dedicated pumps has also provided more representative groundwater data. For example, pumps installed in wells where LNAPL is present now can be sampled without collecting entrained free product. Measured groundwater concentrations have significantly decreased in the wells with LNAPL.</p>
Decrease project management/reporting costs.	<p>CH2M HILL expects project management costs to decrease during the LTRA. Data management costs may remain high because of the volume of analytical data generated for the site and the LOE hours associated with meeting USEPA reporting requirements. CH2M HILL continues to monitor the monthly project management cost and has established an LOE for staff for the remainder of the assignment. An unexpected change in the permanent operator resulted in a monthly LOE higher than the target until the replacement operator was identified and permanently relocated to Siren, Wisconsin. Since that time, the monthly LOE for both project management and subcontractor management has been less than the established LOE.</p>
Develop tracking of routine and nonroutine costs.	<p>For this LTRA, CH2M HILL is tracking routine and nonroutine maintenance activities and the associated costs. CH2M HILL uses this tracking tool to investigate opportunities for optimizing the system and reducing costs wherever possible.</p>
Evaluate potential to reduce groundwater extraction without substantially affecting LNAPL recovery.	<p>As part of the data evaluation activities for the LTRA, CH2M HILL continues to monitor and evaluate recovery of LNAPL and containment of the dissolved plume to determine the potential for reduced groundwater pumping. An LNAPL recovery optimization test was performed the week of May 7, 2009, to evaluate the effect of the cone of depression on recovery. The results of the test, presented in a technical memorandum on June 29, 2009, indicated that LNAPL recovery is not affected by a change in the groundwater extraction rate.</p> <p>The groundwater extraction rate was reduced to 55 gallons per minute, and the treatment system has maintained capture of the PCP dissolved contamination. Additional operational procedures were implemented to ensure that the LNAPL recovery pumps are at the proper depth in the recovery well to account for water table fluctuations.</p>
Adjust pH to 6.5 instead of 7.	<p>As instructed by USEPA, CH2M HILL has implemented this recommendation.</p>
Transition from groundwater extraction and LNAPL recovery system to bioventing system and intrinsic remediation.	<p>CH2M HILL started the bioventing system in September 2007 and collected soil gas data over 575 hours of operation. The system was shut down over the winter months, and changes in condition were monitored. The shutdown did not appreciably affect the biodegradation of PCP in the subsurface, but provided cost savings on energy usage.</p> <p>The bioventing system will be restarted after the spring groundwater sampling event and operated until the shallow soils are fully oxygenated. Based on the data collected during operation, once the shallow soils are oxygenated, the intermediate and deep soils will also be oxygenated. The system then can be operated in a pulsed mode, so that oxygen is maintained above 5 percent at all locations to promote aerobic degradation. The ongoing operating schedule of the bioventing system will be determined based on results of soil gas monitoring following spring startup. Bioventing will be performed concurrently with the LNAPL recovery system.</p>

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
16-Feb-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
23-Feb-10	-	6.5		-	-					-	0.10UJ	-	-	-	-	-	-	-	-	-	-	-	-	
2-Mar-10	-	6.5		-	-					-	0.10UJ	-	-	-	-	-	-	-	-	-	-	-	-	
9-Mar-10	2,050J	6.5		18.9	0.10U					3.0U	0.10U	8.4UJ	1.0U	0.10U	0.4U	0.4U	1.0U	2.0U	10U	13	238J	1,030		
16-Mar-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
23-Mar-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
30-Mar-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
6-Apr-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
22-Apr-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
4-May-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
11-May-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
18-May-10	-	6.5		-	0.10UJ					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
25-May-10	-	6.5		-	-					-	0.10UJ	-	-	-	-	-	-	-	-	-	-	-	-	
1-Jun-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
8-Jun-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
15-Jun-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
22-Jun-10	1,970	6.5		21	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	33	31	367	1510		
29-Jun-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
09-Jul-10	-	6.5		-	-					-	0.10UJ	-	-	-	-	-	-	-	-	-	-	-	-	
13-Jul-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
20-Jul-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
27-Jul-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
5-Aug-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
11-Aug-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
20-Aug-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
24-Aug-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
16-Sep-10	1,830	6.5		16	0.10U					-	0.10U	-	1.0U	-	-	-	-	4.4	3.2	14	389	904		
21-Sep-10	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-	-	
28-Sep-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
12-Oct-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
19-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
27-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
9-Nov-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
18-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
22-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
30-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
7-Dec-10	1,940	6.5		18.4	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831		
14-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
21-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
28-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
4-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
11-Jan-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
25-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
1-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
10-Feb-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
15-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		

^a NA = Sample analysis was on hold and cancelled based on the results of the quick turnaround time samples.

^b NR = Sample results are not yet available from the laboratory.

^c ND = Compound was not detected in sample.

- = Not sampled.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

Qualifiers:

B = Analyte found in the method blank.

J = Estimated value.

R = Result is rejected due to quality control issues.

U = Analyte was not detected at or above the stated limit.

* = Result is suspect. Refer to discussion of WPDES monitoring in Technical Status Report text.

RAC2 TECHNICAL STATUS REPORT

February 26, 2011 to March 14, 2011

WORK ASSIGNMENT NUMBER: 004-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 344511
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: March 14, 2011
COPIES: RPM: Denise Boone, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Bill Schultz, WDNR, Rhinelander, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task A (PP)

- Monthly project management activities were performed.

Task B (PI)

- During the reporting period, an estimated 860,000 gallons of groundwater was treated and discharged. To date, 132 million gallons of water have been treated. During this reporting period, an estimated 68 gallons of liquid waste was recovered. The amount of liquid waste recovery has been potentially affected by the drilling operations occurring at the site. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 43,032 gallons.
- Based on the potential for methane migration because of the snow cover, the biovent system was shut down on October 22 for the winter months – similar to the winter months of 2008–2009 and 2009–2010. Soil gas readings collected prior to previous shutdowns indicate that oxygen levels remain the same or decrease slightly during the time the bioventing system is shut down. Based on the oxygen use observed during the 2009–2010 shutdown, it is not anticipated that the oxygen level will drop below the 5 percent minimum level for aerobic biodegradation during the shutdown period. The system will resume operation in the spring.
- On March 4, Hedlund Gas, Inc., delivered approximately 1,300 gallons of propane to the site.
- On March 4, U.S. Water Services delivered two 5-gallon totes of polymer to the site.
- On March 7, the Town of Daniels was onsite to snowplow and sand the site driveway.

- On March 14, Alar Engineering Corporation delivered two pallets of diatomaceous earth to the site.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table at the end of this report. The concentrations of the analyses were in compliance with the discharge criteria in WPDES Permit No. WI-0061531-01-0, except for arsenic. The concentration of arsenic exceeded the monthly permit average of 5 micrograms per liter ($\mu\text{g/L}$) at $10 \mu\text{g/L}$. Similar concentrations have been observed in the past; however, there is no corrective action since the treatment system is not designed to treat metals. Although the permit limit is based on a monthly average, only a single arsenic sample is collected every quarter per the permit sample frequency. The average arsenic concentration for the last 12 months is $4.4 \mu\text{g/L}$, which is below the permit average.

Task C (CV)

- Operational monitoring was continued under this task.

Task D (PC)

- The 2010 *Interim Long-Term Remedial Action Annual Report* was submitted to the work assignment manager on March 14 for review. The report was submitted draft because the data used to generate this report has not been fully validated by USEPA. The final report will be submitted during the Option Period once all validated data has been received.

Task E (MS)

The following items were completed by Layne Christensen Company through this reporting period:

- The final testing of electrical equipment, groundwater extraction pumps, and light nonaqueous phase liquid (LNAPL) recovery pumps was completed the week of February 28. The programming for the continuous operation of the new extraction wells was completed and all extraction wells were fully operational on March 4. The LNAPL thickness was measured in the free product recovery wells and was less than 0.010 inch; therefore, only the groundwater extraction wells were left running. The LNAPL recovery pumps will be started when LNAPL is observed in the wells.

Task (CO)

- Project closeout activities were performed including the preparation of the Work Assignment Closeout Report.

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
A (PP)	07/01/06	07/01/06	03/14/11		100	0
B (PJ)	07/29/06	07/29/06	03/14/11		100	0
C (CV)	07/29/06	07/29/06	03/14/11		100	0

Summary of Project Status						
Task No/ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
D (PC)	07/29/06	07/29/06	03/14/11		100	0
E (CO)	03/01/11		03/14/11		100	0
F (RV)	02/01/09	02/01/09	03/14/11		100	0
G (MS)	08/01/10	08/01/10	03/14/11		100	0

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Task A (PP)

- Work assignment will be closed; therefore, no activities will be performed during the next reporting period.

Task B (PJ)

- Work assignment will be closed; therefore, no activities will be performed during the next reporting period.

Task C (CV)

- Work assignment will be closed; therefore, no activities will be performed during the next reporting period.

Task D (PC)

- Work assignment will be closed; therefore, no activities will be performed during the next reporting period.

Task E (MS)

- Work assignment will be closed; therefore, no activities will be performed during the next reporting period.

6. Key Personnel Changes

None.

7. Subcontractor Services

Drilling Services:	Layne Christensen Company
Earthworks/well connections:	HIS Constructors, Inc.
Electrical service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic service:	A-1 Septic Service
Nonhazardous waste disposal:	Allied Waste Services
Polymer:	U.S. Water Services
Propane tank and gas:	Hedlunds Gas, Inc.
Contaminated media removal:	Siemens Water Technologies, Inc.
Hazardous waste disposal:	North Shore Environmental Construction, Inc.
Treatment system chemicals:	Glacier Pure, Inc.
Diatomaceous earth supplier:	Alar Engineering Corp.
Road maintenance, erosion control, and repair:	Brust Excavating
Analytical laboratory services:	Environmental Monitoring and Technologies, Inc.

8. Travel

Travel for Craig Haas in February was reported in the previous month's Technical Status Report.

Craig Haas travelled to the site from February 27 to March 5 to perform oversight of the well connection and startup activities. Travel charges from February 27 to March 5 were inadvertently charged to WA #056-RARA-05BW and will transferred to this WA and be invoiced as trailing costs.

Jack Knight travelled to the site from March 1 to March 4 to program the new wells into the programmable logic controller (PLC) and start up the system.

9. Laboratories

System monitoring samples were submitted to Environmental Monitoring and Technologies, Inc., of Morton Grove, Illinois, for analysis. It is a Wisconsin-certified laboratory with the subcontract for 2008 to 2011 analytical services.

10. Project Performance

The following tasks with associated performance criteria were active this month.

Task A – LTRA Monthly Progress Report

- The Technical Status Report for February was submitted, meeting the performance standard.

Task B – Groundwater Containment and Bioventing

- The groundwater treatment system had temporary shutdowns; however, the alarms were acknowledged within 24 hours. Therefore, the groundwater treatment system met the performance standard for this period, based on the approved clarification.
- Running the bioventing system for an extended time during the winter is a safety concern because the frozen soils can act as a cap, preventing upward release of methane and resulting in migration of methane. Soil gas measurements indicated sufficient oxygen is present in the subsurface to support aerobic biodegradation. As recommended in 2008, the bioventing system was shut down on October 22 for the winter because of the health and safety concerns of methane migration. The bioventing system can remain off throughout the winter, without appreciably affecting the biodegradation of pentachlorophenol (PCP) in the subsurface, and will provide cost savings on energy consumption. The bioventing system did operate for 5 days in October in accordance with the modified operation schedule prior to the shutdown. Therefore, the bioventing system met the performance standard for this period.

Task C – Groundwater Treatment

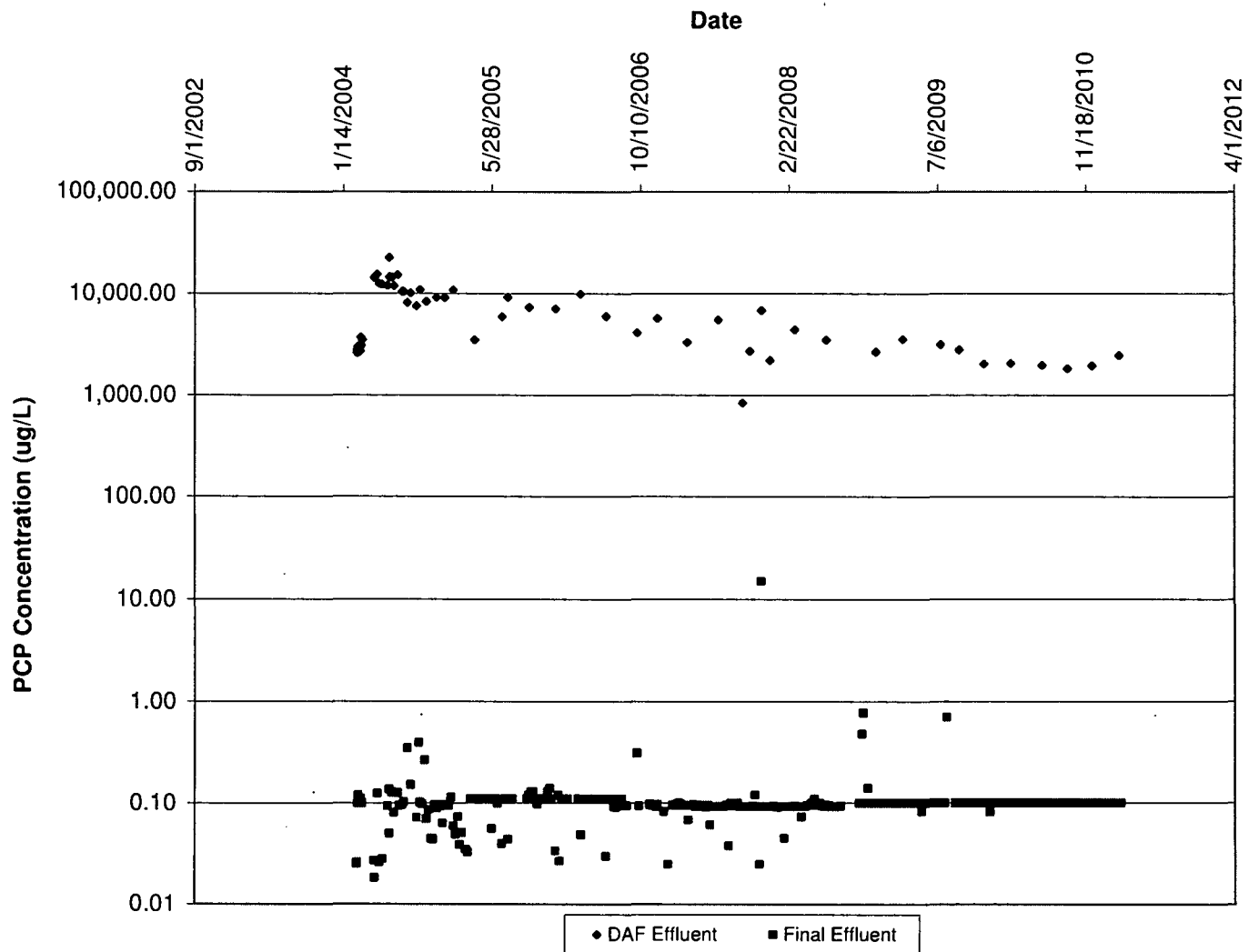
- Treatment system effluent sampling results did not meet the discharge criteria in the WPDES Permit No. WI-0061531-01-0; the concentration of arsenic exceeded the permit average of 5 µg/L. However, similar concentrations have been observed in the past, and there are no corrective actions because the treatment system is not designed to treat metals.

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Follow water quality trends in monitoring wells to determine if the plume is migrating.	CH2M HILL continues to evaluate the PCP data to determine if the plume is expanding and if additional monitoring sites are needed. PCP concentrations generally decreased from 2004 to 2007 throughout the site – including consistent decreases in MW-9 and MW-13, both in the northeastern part of the site. PCP concentrations in 2007 were 0.37 µg/L in MW-9 and 0.53 µg/L in MW-13 – the lowest concentrations measured in the wells since 2001. Installation of a monitoring well to the east, in the direction of two residences, does not appear to be warranted based on the current data and trends.
Provide more accurate prediction of consumables and disposal costs.	The budget for the Long-Term Remedial Action (LTRA) work plan is more accurate because of the availability of actual costs from previous years. CH2M HILL has established tracking tools for consumable and disposal costs since the beginning of this work assignment. The overall system operations have improved, causing some costs to decrease (for example, longer run cycles between carbon changeouts has resulted in decreased carbon changeouts and disposal costs) and others to increase (for example, increased operating time increased the LNAPL and filter cake disposal cost). CH2M HILL continues to optimize the system performance and to decrease overall operations and maintenance costs.
Consider modifying management of granular activated carbon units.	CH2M HILL evaluated options for reducing the carbon changeout frequency, including the overall evaluation of system operations, jar testing, additional chemical conditioning to reduce solids loading, and a carbon backwash system. While the system optimization was being performed, a procedure was implemented for the partial changeout of the carbon vessels (removing the top quarter of the carbon where solids loading was occurring) to extend the life of the carbon and to reduce carbon changeout and disposal costs. After the overall system evaluation and jar tests were completed, improvements to the operating procedures were implemented. Those efforts significantly reduced the solids loading to the carbon vessels, resulting in carbon changeout frequencies of about 12 weeks, which exceeds the maximum cycles achieved historically. Although the additional chemical conditioning and carbon backwashing can be effective methods for increasing the run cycle of the carbon, the use of the carbon (that is, breakthrough analysis) needs to be determined to calculate whether the run cycles can be improved still more.
Eliminate redundant or unnecessary laboratory analysis.	Historical metals data were reviewed to verify that elimination of total metals from the annual sampling of the monitoring wells would not affect data evaluation. As instructed by USEPA, CH2M HILL eliminated the total metals analysis from the groundwater sampling events. As instructed by USEPA, CH2M HILL will not eliminate the spring sampling event until sufficient data exists to evaluate the contaminant plume fully. Eliminating the spring sampling event in 2010 is being considered. CH2M HILL reviewed the number of locations and frequency of the sampling performed during the annual groundwater sampling events and presented USEPA with recommended reductions in the number of sampling locations. The reduced sampling network was started during the spring 2009 sampling event. CH2M HILL reviewed the WPDES discharge sampling requirements and recommended a reduction in the analyses and frequency of sample collection. The Wisconsin Department of Natural Resources accepted some of the recommendations, which will result in an annual cost savings of \$3,800. The revised sampling program began under the new WPDES Permit No. WI-0061531-01-0, effective January 1.

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Investigate possibility of declassifying waste.	CH2M HILL investigated the possibility of declassifying the waste and determined that it is infeasible because of the continued presence of LNAPL, which is considered a listed hazardous waste.
Use dedicated pumps in monitoring wells.	<p>The use of dedicated pumps has reduced CH2M HILL's overall level of effort (LOE) for the sampling events. The CH2M HILL plant operator will continue to serve as a field team member to achieve the further reduction of travel costs. It is estimated that the use of dedicated pumps has eliminated the need for a second sampling team during the semiannual sampling event. This equates to 2 people for 3 days, including labor and travel costs. The annual sampling event was reduced by 1 person for 4 days, including labor and travel costs.</p> <p>Use of the dedicated pumps has also provided more representative groundwater data. For example, pumps installed in wells where LNAPL is present now can be sampled without collecting entrained free product. Measured groundwater concentrations have significantly decreased in the wells with LNAPL.</p>
Decrease project management/reporting costs.	CH2M HILL expects project management costs to decrease during the LTRA. Data management costs may remain high because of the volume of analytical data generated for the site and the LOE hours associated with meeting USEPA reporting requirements. CH2M HILL continues to monitor the monthly project management cost and has established an LOE for staff for the remainder of the assignment. An unexpected change in the permanent operator resulted in a monthly LOE higher than the target until the replacement operator was identified and permanently relocated to Siren, Wisconsin. Since that time, the monthly LOE for both project management and subcontractor management has been less than the established LOE.
Develop tracking of routine and nonroutine costs.	For this LTRA, CH2M HILL is tracking routine and nonroutine maintenance activities and the associated costs. CH2M HILL uses this tracking tool to investigate opportunities for optimizing the system and reducing costs wherever possible.
Evaluate potential to reduce groundwater extraction without substantially affecting LNAPL recovery.	<p>As part of the data evaluation activities for the LTRA, CH2M HILL continues to monitor and evaluate recovery of LNAPL and containment of the dissolved plume to determine the potential for reduced groundwater pumping. An LNAPL recovery optimization test was performed the week of May 7, 2009, to evaluate the effect of the cone of depression on recovery. The results of the test, presented in a technical memorandum on June 29, 2009, indicated that LNAPL recovery is not affected by a change in the groundwater extraction rate.</p> <p>The groundwater extraction rate was reduced to 55 gallons per minute, and the treatment system has maintained capture of the PCP dissolved contamination. Additional operational procedures were implemented to ensure that the LNAPL recovery pumps are at the proper depth in the recovery well to account for water table fluctuations.</p>
Adjust pH to 6.5 instead of 7.	As instructed by USEPA, CH2M HILL has implemented this recommendation.

Remediation System Evaluation Recommendation Status	
Recommendation	Status
Transition from groundwater extraction and LNAPL recovery system to bioventing system and intrinsic remediation.	<p>CH2M HILL started the bioventing system in September 2007 and collected soil gas data over 575 hours of operation. The system was shut down over the winter months, and changes in condition were monitored. The shutdown did not appreciably affect the biodegradation of PCP in the subsurface, but provided cost savings on energy usage.</p> <p>The bioventing system will be restarted after the spring groundwater sampling event and operated until the shallow soils are fully oxygenated. Based on the data collected during operation, once the shallow soils are oxygenated, the intermediate and deep soils also will be oxygenated. The system then can be operated in a pulsed mode so that oxygen is maintained above 5 percent at all locations to promote aerobic degradation. The ongoing operating schedule of the bioventing system will be determined based on results of soil gas monitoring following spring startup. Bioventing will be performed concurrently with the LNAPL recovery system.</p>

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
16-Mar-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
23-Mar-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
30-Mar-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
6-Apr-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
22-Apr-10	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
4-May-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
11-May-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
18-May-10	--	6.5		--	0.10UJ					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
25-May-10	--	6.5		--	--					--	0.10UJ	--	--	--	--	--	--	--	--	--	--	--		
1-Jun-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
8-Jun-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
15-Jun-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
22-Jun-10	1,970	6.5		21	0.10U					--	0.10U	--	1.0U	--	--	--	--	2.0U	33	31	367	1510		
29-Jun-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
09-Jul-10	--	6.5		--	--					--	0.10UJ	--	--	--	--	--	--	--	--	--	--	--		
13-Jul-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
20-Jul-10	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
27-Jul-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
5-Aug-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
11-Aug-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
20-Aug-10	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
24-Aug-10	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
16-Sep-10	1,830	6.5		16	0.10U					-	0.10U	-	1.0U	-	-	-	-	4.4	3.2	14	389	904		
21-Sep-10	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-	-	
28-Sep-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
12-Oct-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
19-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
27-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
9-Nov-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
18-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
22-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
30-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
7-Dec-10	1,940	6.5		18.4	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831		
14-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
21-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
28-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
4-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
11-Jan-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
25-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
1-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
10-Feb-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
15-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
1-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)	
8-Mar-11	2,470	6.5		18.4	0.10U					NR	0.10U	5.0U	1.0U	0.10U	0.4U	0.4U	1.0U	10U	19	48	210	652			
15-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--	--		
22-Mar-11	--	6.5		--	--					--	NR	--	--	--	--	--	--	--	--	--	--	--	--		

^a NA = Sample analysis was on hold and cancelled based on the results of the quick turnaround time samples.

^b NR = Sample results are not yet available from the laboratory.

^c ND = Compound was not detected in sample.

-- = Not sampled.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

Qualifiers:

B = Analyte found in the method blank.

J = Estimated value.

R = Result is rejected due to quality control issues.

U = Analyte was not detected at or above the stated limit.

* = Result is suspect. Refer to discussion of WPDES monitoring in Technical Status Report text.

RAC2 TECHNICAL STATUS REPORT

June 25, 2011 to July 29, 2011

WORK ASSIGNMENT NUMBER: 132-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 419801
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: July 29, 2011
COPIES: RPM: Denise Boone, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Phil Richard, WDNR, Park Falls, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task 1 (PP)

- Monthly project management activities were performed, including support for work assignment transition from the Base Period into the Option Period.

Task 3 (PB)

- Procurement activities continued for the following subcontracts:
 - Solid Waste Disposal – Allied Waste Services
 - Carbon Changeout Services – Siemens Water Technologies, Inc.
 - Hazardous Waste Disposal – North Shore Environmental Construction
 - Chemical Supply – Glacier Pure
 - Polymer Supply – U.S. Water Services
 - Annual Air Compressor and Air Dryer Service – Applied Air Systems, Inc.
 - On-call Electrical Service – TBD

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring.

Task 6 (AN)

- Performed monthly data validation on treatment system samples.
- Keli McKenna, Mike Niebauer, Shannon Olson, and Ward Dickens conducted a kickoff meeting on July 7 with the new analytical subcontractor, TestAmerica, Inc., to discuss key items critical to the scope of work, project requirements, and sample submittal schedule.

Task 8 (CV)

- The semiannual groundwater sampling event occurred the week of June 27. A full round of water levels and five monitoring wells were sampled.
- Five water samples were collected from five neighboring residential homes. The residential wells sampled were all nondetect for pentachlorophenol (PCP).

Task 10 (PJ)

- During the reporting period, an estimated 1.1 million gallons of groundwater were treated and discharged. To date, 136 million gallons of water have been treated. An estimated 56 gallons of liquid waste were recovered. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 43,621 gallons.
- In accordance with the current operating strategy, the bioventing system operated for 5 days from July 25 to July 29. Soil gas monitoring was performed and compared to historical measurements (see the table on page 6). Soil gas readings collected at the restart (July 25) indicated saturation of oxygen in all the locations except the two locations (SG-22 and SG-07S) in the wood chip areas. Consistent with previous years, the two wells continue to have low oxygen levels (less than 20 percent in SG-22 and less than 5 percent in SG-07S).
- Maurer Power was onsite on July 7 to troubleshoot the filtrate pump.
- The site restoration activities associated with the new extraction well installation within the corrective action management unit was completed on June 29, and the survey of the new extraction wells and monitoring wells was completed on July 7.
- Austin Lake Landscaping was onsite July 8 and 25 to mow and trim tall weeded areas to allow the operator access to the extraction and monitoring wells.
- On July 12, two 5-gallon carboys of polymer were delivered to the site by U.S. Water Service.
- On July 18, Glacier Pure delivered ferric sulfate.
- Maurer Power was onsite on July 25 to troubleshoot the dissolved air floatation (DAF) control panel.
- Applied Air Systems, Inc., was onsite on July 26 to install the repair/replacement parts for the leaking moisture separator.
- On July 28, Austin Lake Landscaping was onsite to cut tree limbs and to trim tall weeds located around monitoring wells MW-09 and MW-23.
- Maurer Power was onsite on July 28 to check the signal between the programmable logic controller (PLC) and the treatment system.

- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table located at the end of this report. The concentrations of analytes were in compliance with the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Task 11 (PC)

- None.

Task 12 (CO)

- None.

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
1 (PP)	03/15/11	03/15/11	11/31/14		17	0
3 (PB)	03/15/11	03/15/11	08/31/14		24	0
4 (MS)	03/15/11	03/15/11	11/31/14		2	0
6 (AN)	04/01/11	04/01/11	11/31/14		2	0
7 (AI)	04/01/11	04/01/11	11/31/14		6	0
8 (CV)	06/27/11		08/31/14		11	0
10 (PJ)	03/15/11	03/15/11	08/31/14		11	0
11 (PC)			11/31/14		0	0
12 (CO)			11/31/14		0	0

2. Problems Resolved

Environmental Spill

On July 12, upon doing a normal site inspection, the operator noticed an amount of oily staining near the product storage tank. The stained soil was located adjacent to the concrete pad near the drop pipe of the aboveground product storage tank. A garbage can was found to have struck the valve on the drop pipe during a violent windstorm that had occurred earlier. The garbage can had opened the valve discharging product located in the drop pipe, which resulted in an estimated spill of 2.3 gallons of F032 waste (recovered free product). The spill was immediately reported to the project manager and environmental spill managers at CH2M HILL who reported the spill to NRC and Wisconsin spill hotlines. The operator immediately began to remove the contaminated soil and disposed of it into several 55-gallon drums. Approximately 2 cubic yards of soil was removed from a 7-foot long by 3-foot wide by 3-foot deep hole. Staining on the concrete beneath the tank was decontaminated and rinse water was containerized.

Three soil samples were collected from the sides and bottom of the excavation hole to confirm that gross contamination was removed. Analytical results for the three samples were 700 micrograms per kilogram ($\mu\text{g}/\text{kg}$), 620 $\mu\text{g}/\text{kg}$, and 500 $\mu\text{g}/\text{kg}$ for PCP. The results were below the site cleanup goals of 2.1 milligrams per kilogram (mg/kg) for onsite soils and 0.9 mg/kg for offsite soils. The cleanup goals correspond to the lifetime cancer risk values for industrial and residential exposures. A cap of the drop pipe was installed to prevent any other discharges in the future

and the field operating procedures were updated to include an additional step of draining the drop pipe as a final step in the removal of free product for disposal.

Other Problems Resolved

Light nonaqueous phase liquid recovery pumps in EW-04 and EW-06 were not operating. After removal of the pumps, cleaning, and tightening of the fittings, both pumps were able to be restarted; however, many of the fittings were showing signs of wear and small air leaks were still observed. A replacement pump and repair parts were ordered and were installed during the groundwater sampling event and all the recovery pumps are now functioning properly.

The filtrate pump began leaking on July 6. The filtrate pump effluent pipe was found to be cracked and the filtrate pump found to be at a reduced flow rate. The cracked was temporarily mended until the new pipe could be installed on July 14. The effluent pipe and filter screen were also flushed; however, the pump continued to run at reduced flows. Maurer Power was onsite on July 7 to assist with troubleshooting. The integrity of the gaskets between the pump and motor were also inspected. The filtrate pump was then disassembled and the stator was found to be worn. A spare pump was installed until a replacement stator could be received for the original pump. The ordered stator was installed on July 14 and the pump has been functioning since the installation.

3. Problem Areas and Recommended Solutions

The coupler on the granular activated carbon (GAC) feed pump has been torn apart by the pump twice as a result of the shaft being out of alignment. The coupler has been replaced and the shaft realigned; however, the problem continues. A new pump was received on July 14 and will be installed during the next reporting period.

The GAC backwash pump is showing signs of wear and continues to leak. The pump has been inspected and parts replaced in an attempt to correct the problem with little success. A new pump was received on July 15 and will be installed during the next reporting period.

On July 24, the DAF control panel alarmed due to a thunderstorm that shut down the treatment system. Although the system was shut down, the polymer feed pump continued to feed into the flocculation tank. The operator tried unsuccessfully to clear the alarms and restart the system. Maurer Power was onsite on July 25 to check the voltage and wiring going into the DAF control panel. A short was found and repaired; however, DAF and polymer feed pump continued to operate while the system was shut down. There appears to be a communication error between the treatment system and the PLC. Control input and output cards will be evaluated in both the PLC and the DAF control panel. Troubleshooting of this issue will continue during the next reporting period.

4. Deliverables Submitted

The final monitoring well construction and development logs were submitted to the USEPA and the Wisconsin Department of Natural Resources (WDNR) on July 25.

5. Activities Planned Next Reporting Period

Task 1 (PP)

- Monthly project management activities will be performed.
- An addendum for the quality assurance project plan will be prepared.

Task 3 (PB)

- Additional subcontracts will be procured.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring, will be performed.

Task 6 (AN)

- Monthly data validation on treatment system samples will be performed.

Task 8 (CV)

- None.

Task 10 (PJ)

- Operation of the groundwater treatment system will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

Electrical Service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic Service:	A-1 Septic Service and Installation
Nonhazardous Waste Disposal:	Allied Waste Services
Propane Tank and Gas:	Hedlunds Gas, Inc.
DE Supplier:	Alar Chemical Sales, Inc.
Polymer:	U.S. Water Services
Treatment System Chemicals:	Glacier Pure, Inc
Hazardous Waste Disposal:	North Shore Environmental Construction, Inc.
Carbon Changeout:	Siemens Water Technologies, Inc.
Analytical Laboratory Services:	TestAmerica, Inc.,

8. Travel

Keli McKenna, Dave Shekoski and Sara Maihofer travelled to the site June 27 through July 1 for the groundwater sampling event. Travel charges for Keli McKenna will be invoiced during the next reporting period.

Jack Lundberg travelled to the site June 27 through July 3 to operate the treatment plant while the site operator was on vacation. Sara Maihofer operated the plant from July 5 through July 9.

John Bosak was onsite on July 21 to assist with the spill soil excavation. Travel charges will be invoiced during the next reporting period.

9. Laboratories

System monitoring samples were submitted to Environmental Monitoring and Technologies, Inc., of Morton Grove, Illinois, and TestAmerica, Inc of North Canton, Ohio, for analysis. Both laboratories are Wisconsin-certified laboratory. TestAmerica, Inc., has been awarded the subcontract for the rest of 2011 to 2014.

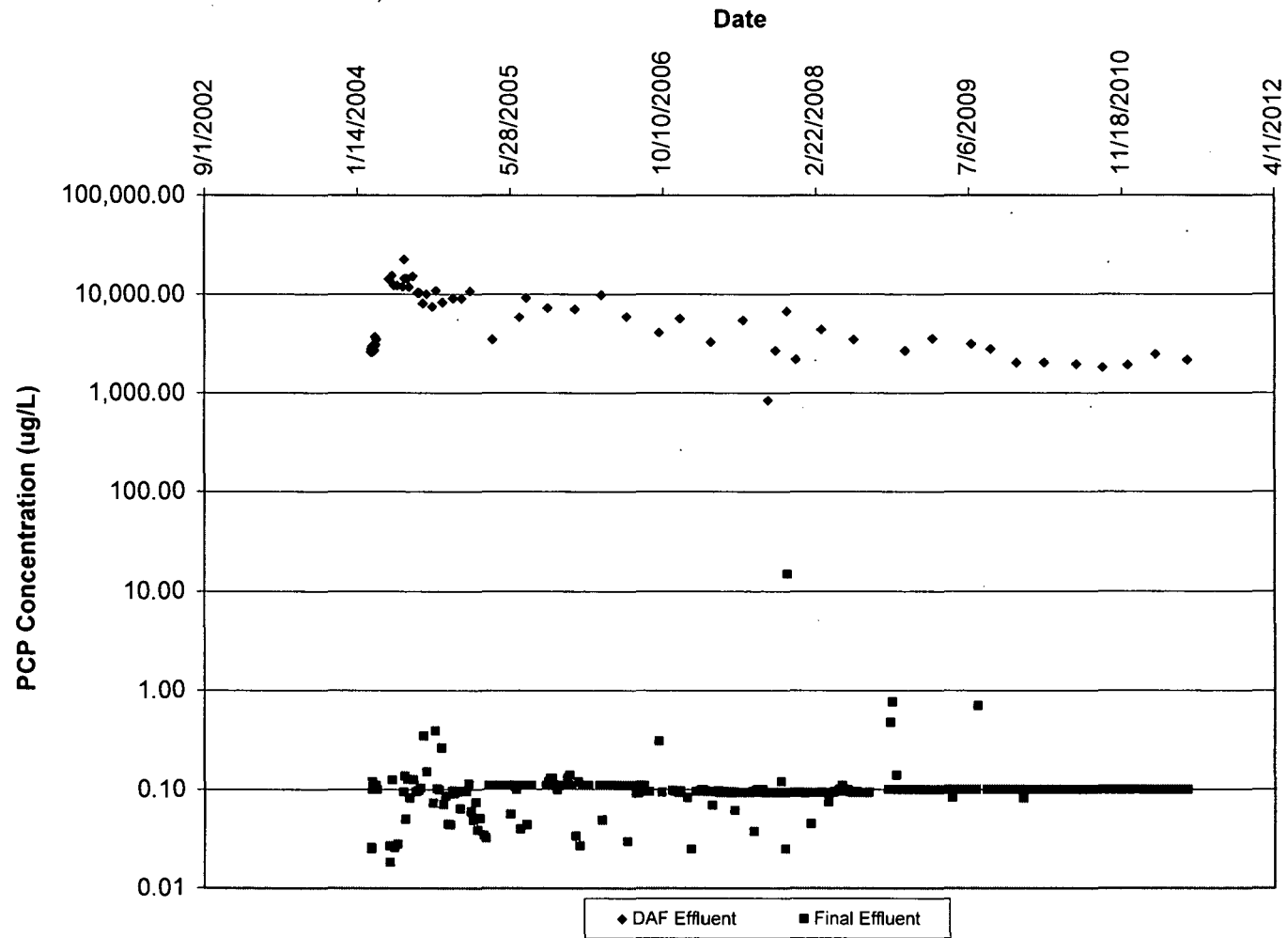
10. Project Performance

- The groundwater extraction and treatment system operated continuously with only temporary shutdowns.
- The bioventing system operated for 5 days this month in accordance with the modified operation schedule. Therefore, the bioventing system met the performance standard for this period.
- Treatment system effluent sampling results met the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Penta Wood Products – Biovent System												
Well ID	O ₂ (%)			CO ₂ (%)			CH ₄ (%)			LEL (%)		
	1 hour after startup (05/09/11)	06/22/11	07/25/11	1 hour after startup (05/09/11)	06/22/11	07/25/11	1 hour after startup (5/09/11)	6/22/11	07/25/11	1 hour after startup (05/09/11)	06/22/11	07/25/11
<i>Shallow</i>												
SG-22	7.8	11.9	18.1	13.9	11.3	2.1	3.5	3.1	0.2	61.0	67.0	4.0
SG-04S	20.6	21.3	21.2	0.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SG-07S	1.6	2.2	0.1	25.5	28.0	29.6	23.4	16.2	13.8	100.0	100.0	100.0
SG-05S	19.8	17.0	19.4	0.4	3.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
SG-06S	20.9	21.9	21.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Intermediate</i>												
SG-04I	8.4	19.8	20.7	5.1	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
SG-07I	16.1	19.8	20.0	2.1	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
SG-05I	19.1	20.7	21.0	0.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
SG-06I	20.8	21.9	21.4	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Deep</i>												
SG-04D	10.9	19.5	20.5	5.8	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
SG-07D	18.7	19.6	20.3	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
SG-05D	19.1	21.1	21.2	0.3	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SG-06D	20.5	21.5	21.1	0.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Perimeter</i>												
SG-23 (3')	21.1	21.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SG-24 (5')	21.1	21.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SG-25 (5')	NM	21.1	21.1	NM	0.0	0.0	NM	NM	0.0	NM	NM	0.0
SG-26 (5')	21.1	21.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NM = not measured

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
5-Aug-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
11-Aug-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
20-Aug-10	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
24-Aug-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
16-Sep-10	1,830	6.5		16	0.10U					-	0.10U	-	1.0U	-	-	-	-	4.4	3.2	14	389	904		
21-Sep-10	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-		
28-Sep-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
12-Oct-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
19-Oct-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
27-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
2-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
9-Nov-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
18-Nov-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
22-Nov-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
30-Nov-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
7-Dec-10	1,940	6.5		18.4	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831		
14-Dec-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
21-Dec-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
28-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
4-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
11-Jan-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
25-Jan-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
1-Feb-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
10-Feb-11	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
15-Feb-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
1-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
8-Mar-11	2,470	6.5		18.4	0.10U					1.0U	0.10U	5.0U	1.0U	0.10U	0.4U	0.4U	1.0U	10U	19	48	210	652		
15-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
22-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
29-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
5-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
14-Apr-11	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
19-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
26-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
3-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
10-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
17-May-11	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
24-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
31-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
7-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
21-Jun-11	2,170	6.5		17.7	0.10U					--	0.10U	--	1.0U	--	--	--	--	10.1	6.7J	58	846	719		
28-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
6-Jul-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
15-Jul-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
20-Jul-11	-	6.5		-	0.07UB					-	0.10U	-	0.2U	-	-	-	-	-	-	-	-	-		
27-Jul-11	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-		

^a NA = Sample analysis was on hold and cancelled based on the results of the quick turnaround time samples.

^b NR = Sample results are not yet available from the laboratory.

^c ND = Compound was not detected in sample.

-- = Not sampled.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

Qualifiers:

B = Analyte found in the method blank.

J = Estimated value.

R = Result is rejected due to quality control issues.

U = Analyte was not detected at or above the stated limit.

* = Result is suspect. Refer to discussion of WPDES monitoring in Technical Status Report text.

RAC2 TECHNICAL STATUS REPORT

July 30, 2011 to August 26, 2011

WORK ASSIGNMENT NUMBER: 132-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 419801
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: August 26, 2011
COPIES: RPM: Denise Boone, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Phil Richard, WDNR, Park Falls, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task 1 (PP)

- Monthly project management activities were performed.

Task 3 (PB)

- Procurement activities continued for the following subcontracts:
 - Carbon Changeout Services – Siemens Water Technologies, Inc.
 - On-call Electrical Service – TBD

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring.

Task 6 (AN)

- Performed monthly data validation on treatment system samples.

Task 8 (CV)

- None.

Task 10 (PI)

- During the reporting period, an estimated 0.71 million gallons of groundwater were treated and discharged. To date, 137 million gallons of water have been treated. An estimated 82 gallons of liquid waste were recovered. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 43,703 gallons.

- In accordance with the current operating strategy, the bioventing system operated for 5 days from August 24 to August 28. Soil gas monitoring was performed and compared to historical measurements (see the table on page 6). Soil gas readings collected at the restart (August 24) indicated saturation of oxygen in all the locations except the two locations (SG-22 and SG-07S) in the wood chip areas. Consistent with previous years, the two wells continue to have low oxygen levels (less than 20 percent in SG-22 and less than 15 percent in SG-07S).
- Maurer Power was onsite on August 1 to test the programmable logic controller (PLC) cards and to check the fuses within the panel to determine if they are cause for the dissolved air floatation (DAF) unit not automatically turning off when a shutdown condition occurs. They returned on August 3 to install the replacement PLC card.
- Maurer Power was onsite on August 8 to install a replacement DAF PLC card into the control panel.
- On August 9, Maurer Power was onsite to repair the equalization pump and calibrate the equalization flowmeter.
- Austin Lake Landscaping was onsite August 5 and 19 to mow and trim tall weeded areas to allow the operator access to the extraction and monitoring wells.
- On August 10, two 5-gallon carboys of polymer were delivered to the site by U.S. Water Service.
- On August 16, North Shore Environmental picked up carbon and filter cake. North Shore returned to the site on August 24 and 25 to pick up the remaining filter cake and the roll-off boxes.
- Maurer Power was onsite on August 25 to install the replacement granular activated carbon (GAC) backwash pump and motor.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table located at the end of this report. The concentrations of analytes were in compliance with the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Task 11 (PC)

- None.

Task 12 (CO)

- None.

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
1 (PP)	03/15/11	03/15/11	11/31/14		18	0
3 (PB)	03/15/11	03/15/11	08/31/14		27	0
4 (MS)	03/15/11	03/15/11	11/31/14		5	0
6 (AN)	04/01/11	04/01/11	11/31/14		3	0
7 (AI)	04/01/11	04/01/11	11/31/14		11	0
8 (CV)	06/27/11		08/31/14		14	0
10 (PJ)	03/15/11	03/15/11	08/31/14		15	0
11 (PC)			11/31/14		0	0
12 (CO)			11/31/14		0	0

2. Problems Resolved

On July 24, the DAF control panel alarmed due to a thunderstorm that shut down the treatment system. Although the system was shut down, the polymer transfer pump continued to feed polymer into the flocculation tank and the DAF continued to operate. Maurer Power was onsite on August 1 to test the PLC cards and to check the fuses within the panel. Replacement cards were ordered and Maurer Power installed the replacement cards on August 3. The treatment system was manually shutdown to test if the DAF and polymer feed would automatically shutdown; however, the DAF and polymer transfer pump continued to operate. The PLC cards in the DAF control panel were tested and replacement cards ordered. The replacement card was installed by Maurer on August 8; however, the same issue continued. After additional troubleshooting, it was determined that the equalization pump was sending a false signal to the control panel that indicated water flow when in fact no flow was present. The flowmeter was removed cleaned, recalibrated, and reinstalled. The treatment system was restarted on August 9, and the system is functioning normally.

On August 17, the site operator set up to operate the rotary drum vacuum filter (RDVF) and found the recirculation pump in vapor lock. The operator tried unsuccessfully to purge the line going from the recirculation tank to the RDVF. A replacement check valve for the RDVF unit was ordered and installed on August 21. The unit has been operating normally since the valve replacement.

The GAC backwash pump was showing signs of wear. Maurer Power installed a new pump on August 25, and it has been functioning since the installation.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Task 1 (PP)

- Monthly project management activities will be performed.
- An addendum for the quality assurance project plan will be prepared.

Task 3 (PB)

- The subcontractor for the on-call electrical services and carbon change out services will be awarded.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring, will be performed.

Task 6 (AN)

- Monthly data validation on treatment system samples will be performed.

Task 8 (CV)

- None.

Task 10 (PI)

- Operation of the groundwater treatment system will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

Electrical Service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic Service:	A-1 Septic Service and Installation
Nonhazardous Waste Disposal:	Allied Waste Services
Propane Tank and Gas:	Hedlunds Gas, Inc.
DE Supplier:	Alar Chemical Sales, Inc.
Polymer:	U.S. Water Services
Treatment System Chemicals:	Glacier Pure, Inc
Hazardous Waste Disposal:	North Shore Environmental Construction, Inc.
Carbon Changeout:	Siemens Water Technologies, Inc.
Analytical Laboratory Services:	TestAmerica, Inc.,

8. Travel

Travel for Keli McKenna on June 27 to July 1 was reported in last month's Technical Status Report.

Travel for John Bosak on July 21 for assisting with the spill soil excavation was reported in last month's Technical Status Report.

9. Laboratories

System monitoring samples were submitted to TestAmerica, Inc., of North Canton, Ohio, for analysis. They are Wisconsin-certified laboratory with the subcontract for analytical services for 2011 to 2014.

10. Project Performance

The groundwater extraction and treatment system operated continuously with only temporary shutdowns.

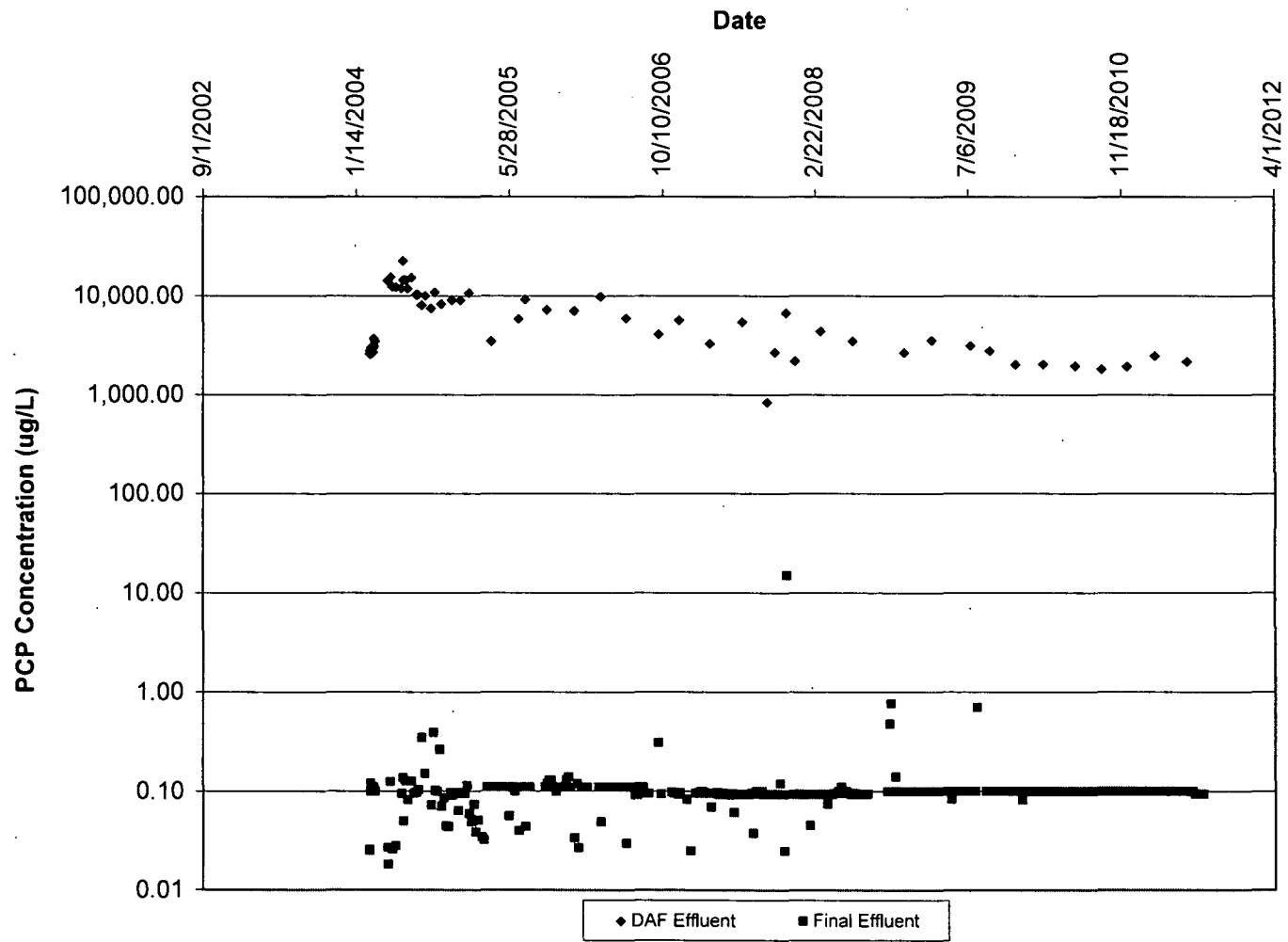
The bioventing system operated for 5 days this month in accordance with the modified operation schedule. Therefore, the bioventing system met the performance standard for this period.

Treatment system effluent sampling results met the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Penta Wood Products – Biovent System												
Well ID	O ₂ (%)			CO ₂ (%)			CH ₄ (%)			LEL (%)		
	1 hour after startup (05/09/11)	07/25/11	08/24/11	1 hour after startup (05/09/11)	07/25/11	08/24/11	1 hour after startup (5/09/11)	07/25/11	08/24/11	1 hour after startup (05/09/11)	07/25/11	08/24/11
<i>Shallow</i>												
SG-22	7.8	18.1	20.9	13.9	2.1	0.0	3.5	0.2	0.0	61.0	4.0	0.0
SG-04S	20.6	21.2	20.8	0.1	0.3	0.5	0.0	0.0	0.1	0.0	0.0	0.1
SG-07S	1.6	0.1	14.8	25.5	29.6	7.9	23.4	13.8	3.3	100.0	100.0	66.0
SG-05S	19.8	19.4	19.2	0.4	1.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
SG-06S	20.9	21.2	20.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Intermediate</i>												
SG-04I	8.4	20.7	20.6	5.1	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
SG-07I	16.1	20.0	19.9	2.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
SG-05I	19.1	21.0	20.7	0.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SG-06I	20.8	21.4	20.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Deep</i>												
SG-04D	10.9	20.5	21.2	5.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SG-07D	18.7	20.3	20.4	1.1	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SG-05D	19.1	21.2	20.7	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
SG-06D	20.5	21.1	20.7	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Perimeter</i>												
SG-23 (3')	21.1	21.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SG-24 (5')	21.1	21.1	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SG-25 (5')	NM	21.1	21.1	NM	0.0	0.0	NM	0.0	0.0	NM	NM	0.0
SG-26 (5')	21.1	20.9	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NM = not measured

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
24-Aug-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
16-Sep-10	1,830	6.5		16	0.10U					-	0.10U	-	1.0U	-	-	-	-	4.4	3.2	14	389	904		
21-Sep-10	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-		
28-Sep-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
12-Oct-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
19-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
27-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
2-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
9-Nov-10	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
18-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
22-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
30-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
7-Dec-10	1,940	6.5		18.4	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831		
14-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
21-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
28-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
4-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
11-Jan-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
25-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
1-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
10-Feb-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Napthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
15-Feb-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
1-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
8-Mar-11	2,470	6.5		18.4	0.10U					1.0U	0.10U	5.0U	1.0U	0.10U	0.4U	0.4U	1.0U	10U	19	48	210	652		
15-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
22-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
29-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
5-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
14-Apr-11	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
19-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
26-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
3-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
10-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
17-May-11	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
24-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
31-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
7-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
21-Jun-11	2,170	6.5		17.7	0.10U					--	0.10U	--	1.0U	--	--	--	--	10.1	6.7J	58	846	719		
28-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
6-Jul-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
15-Jul-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
20-Jul-11	--	6.5		--	0.07UB					--	0.094U	--	0.2U	--	--	--	--	--	--	--	--	--		
27-Jul-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
11-Aug-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
16-Aug-11	NR	6.5		NR	NR					-	NR	-	NR	-	-	-	-	NR	NR	NR	NR	NR		
23-Aug-11	--	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-		

^a NA = Sample analysis was on hold and cancelled based on the results of the quick turnaround time samples.

^b NR = Sample results are not yet available from the laboratory.

^c ND = Compound was not detected in sample.

-- = Not sampled.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

Qualifiers:

B = Analyte found in the method blank.

J = Estimated value.

R = Result is rejected due to quality control issues.

U = Analyte was not detected at or above the stated limit.

* = Result is suspect. Refer to discussion of WPDES monitoring in Technical Status Report text.

Rec 11/7/11
PUT ON BRATS 11/7/11
(43)

RAC2 TECHNICAL STATUS REPORT

August 27, 2011 to September 30, 2011

WORK ASSIGNMENT NUMBER: 132-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 419801
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: September 30, 2011
COPIES: RPM: Denise Boone, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Phil Richard, WDNR, Park Falls, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task 1 (PP)

- Monthly project management activities were performed.

Task 3 (PB)

- Procurement activities continued for the following subcontracts:
 - On-call electrical service – Maurer Power
 - Replacement polymer transfer pump – Nijhuis Water Technology, Inc.
 - Propane supply – Hedlund Gas, Inc.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring.

Task 6 (AN)

- Performed monthly data validation on treatment system samples.

Task 8 (CV)

- None.

Task 10 (PJ)

- During the reporting period, an estimated 1.7 million gallons of groundwater were treated and discharged. To date, 138 million gallons of water have been treated. An estimated 230 gallons of liquid waste were recovered. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 43,933 gallons.

- In accordance with the current operating strategy, the bioventing system operated for 5 days from September 19 to 23. Soil gas monitoring was performed and compared to historical measurements (see the table on page 6). Soil gas readings collected at the restart (September 19) indicated saturation of oxygen in all the locations except the two locations (SG-22 and SG-07S) in the wood chip areas. The readings for SG-07S are consistent with previous years. Airflow observed in SG-22 has been decreasing over the last few months and is now not measureable. The operator has been attempting various methods to identify or remove obstruction in the screen.
- Maurer Power was onsite on August 30 to troubleshoot the equalization flow meter and to replace the heat sensor on polymer transfer pump.
- Austin Lake Landscaping was onsite September 6 and 16 to mow and trim tall weeded areas to allow the operator access to the extraction and monitoring wells.
- On September 6, Maurer Power was onsite to replace the fan belts in the odorous air units.
- Swanson Flow Service was onsite on September 6 to calibrate the flow meters.
- On September 7, Alar Engineering delivered two pallets of diatomaceous earth.
- On September 13, two 5-gallon carboys of polymer were delivered to the site by U.S. Water Service.
- During the daily site inspection on September 28, the operator found the propane tank to be leaking. The operator evacuated from the area and called 911. The fire department turned off the propane supply with no incident. Hedlunds Gas, Inc., and Daniels Plumbing and Heating, Inc., were onsite on September 28 to troubleshoot the propane tank leak.
- Maurer Power was onsite on September 28 to disable power going to the propane tank igniter and to install the dissolved air floatation (DAF) feed pump and sump pump; granular activated carbon (GAC) feed pump and the oil/ water separator pump.
- On September 28, North Shore Environmental Construction, Inc., picked up filter cake for offsite disposal.
- On September 29 and 30, Siemens Water Technology, Inc., completed a carbon changeout on the small (2,500-pound) and large (10,000-pound) GAC vessels.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table located at the end of this report. The concentrations of analytes complied with the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Task 11 (PC)

- None.

Task 12 (CO)

- None.

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
1 (PP)	03/15/11	03/15/11	11/31/14		18	0
3 (PB)	03/15/11	03/15/11	08/31/14		27	0
4 (MS)	03/15/11	03/15/11	11/31/14		5	0
6 (AN)	04/01/11	04/01/11	11/31/14		3	0
7 (AD)	04/01/11	04/01/11	11/31/14		11	0
8 (CV)	06/27/11		08/31/14		14	0
10 (PJ)	03/15/11	03/15/11	08/31/14		15	0
11 (PC)			11/31/14		0	0
12 (CO)			11/31/14		0	0

2. **Problems Resolved**

The DAF feed pump, DAF sump pump, GAC feed pump and the oil/ water separator pump showed signs of wear. All the pumps have been replaced and all have been functioning since the installations.

3. **Problem Areas and Recommended Solutions**

The bioventing well, SG-22, located in the wood chip area has been showing reduced flow. The site operator has tried various means to determine if there is an obstruction in the well. While using a wire brushes and vacuum to clean out the well, the operator noted a white crystalline substance in the well. Different measures (such as water flushing and acid wash) will be tried during the next reporting period.

During the daily site inspection on September 28, the operator noted a gas smell and found the propane tank to be leaking. The operator evacuated from the area and called 911. The fire department turned off the propane supply with no incident. Maurer Power disabled all of the electrical components to the igniter. Daniels Plumbing and Heating, Inc., was contacted to evaluate the leak. Replacement pressure relief gauge or the backflow preventer were ordered. The gas will remain turned off until the replacement parts can be installed during the next reporting period.

4. **Deliverables Submitted**

None.

5. **Activities Planned Next Reporting Period**

Task 1 (PP)

- Monthly project management activities will be performed.

Task 3 (PB)

- A scope of work to clean out the sludge that has accumulated in the underground storage will be prepared.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring, will be performed.

Task 6 (AN)

- Monthly data validation on treatment system samples will be performed.

Task 8 (CV)

- The annual groundwater sampling event is tentatively scheduled for October 17. The Forms II Lite database will be created and the tags and chain-of-custody forms will be printed.

Task 10 (PJ)

- Operation of the groundwater treatment system will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

Electrical Service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic Service:	A-1 Septic Service and Installation
Nonhazardous Waste Disposal:	Allied Waste Services
Propane Tank and Gas:	Hedlunds Gas, Inc.
DE Supplier:	Alar Chemical Sales, Inc.
Polymer:	U.S. Water Services
Treatment System Chemicals:	Glacier Pure, Inc.
Hazardous Waste Disposal:	North Shore Environmental Construction, Inc.
Carbon Changeout:	Siemens Water Technologies, Inc.
Analytical Laboratory Services:	TestAmerica, Inc.

8. Travel

None.

9. Laboratories

System monitoring samples were submitted to TestAmerica, Inc., of North Canton, Ohio, for analysis. It is a Wisconsin-certified laboratory with the subcontract for analytical services for 2011 to 2014.

10. Project Performance

The groundwater extraction and treatment system operated continuously with only temporary shutdowns.

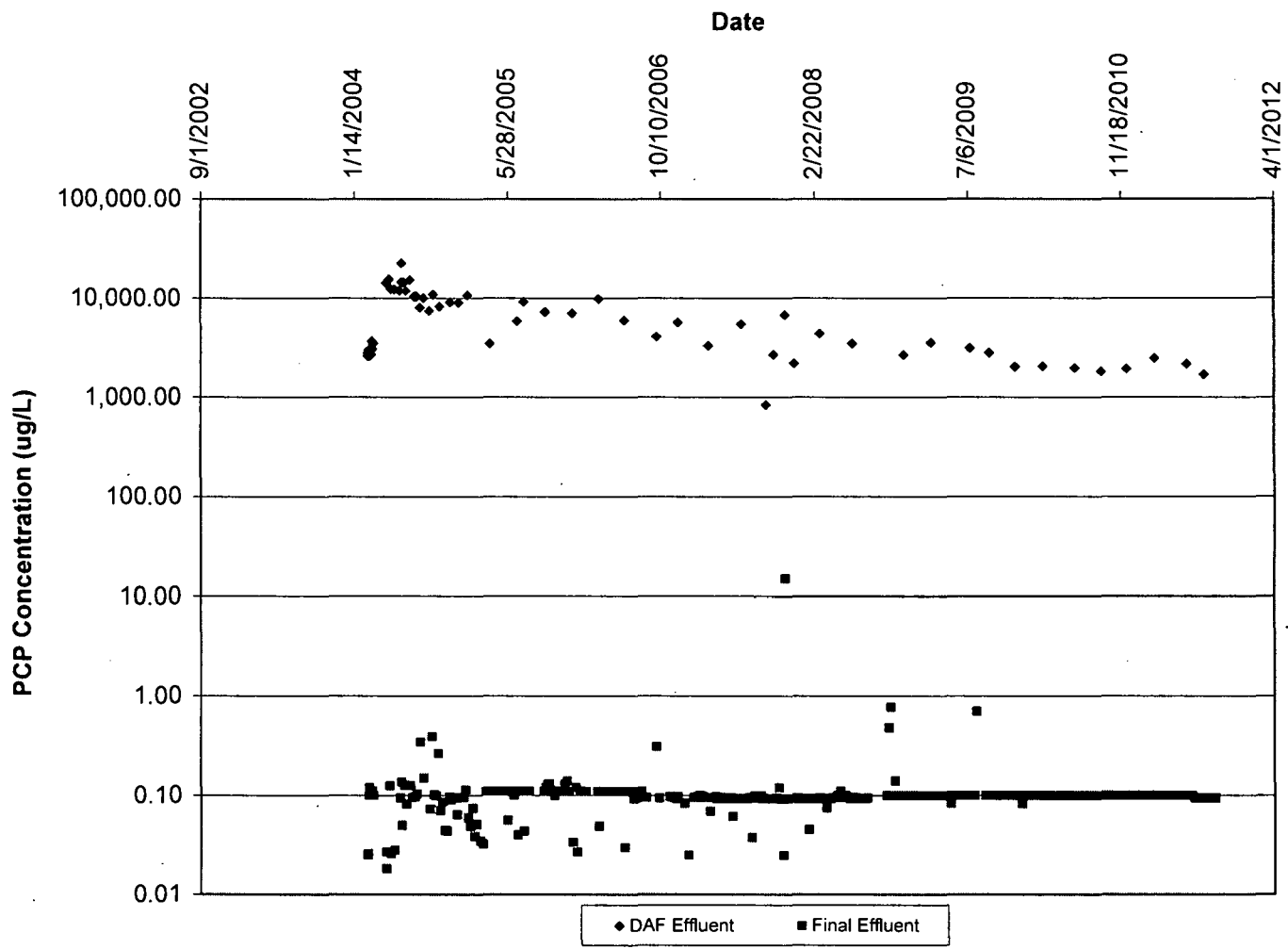
The bioventing system operated for 5 days this month, in accordance with the modified operation schedule. Therefore, the bioventing system met the performance standard for this period.

Treatment system effluent sampling results met the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Penta Wood Products – Biovent System												
Well ID	O ₂ (%)			CO ₂ (%)			CH ₄ (%)			LEL (%)		
	1 hour after startup (05/09/11)	08/24/11	9/19/2011	1 hour after startup (05/09/11)	08/24/11	9/19/2011	1 hour after startup (5/09/11)	08/24/11	9/19/2011	1 hour after startup (05/09/11)	08/24/11	9/19/2011
<i>Shallow</i>												
SG-22	7.8	20.9	20.6	13.9	0.0	0.1	3.5	0.0	0.0	61.0	0.0	0.0
SG-04S	20.6	20.8	20.3	0.1	0.5	0.8	0.0	0.1	0.2	0.0	0.1	0.0
SG-07S	1.6	14.8	6.2	25.5	7.9	22.8	23.4	3.3	9.6	100.0	66.0	100.0
SG-05S	19.8	19.2	19.4	0.4	1.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
SG-06S	20.9	20.7	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Intermediate</i>												
SG-04I	8.4	20.6	20.2	5.1	0.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
SG-07I	16.1	19.9	19.8	2.1	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
SG-05I	19.1	20.7	20.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SG-06I	20.8	20.8	20.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Deep</i>												
SG-04D	10.9	21.2	20.2	5.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
SG-07D	18.7	20.4	20.2	1.1	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
SG-05D	19.1	20.7	20.6	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
SG-06D	20.5	20.7	20.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Perimeter</i>												
SG-23 (3')	21.1	21.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SG-24 (5')	21.1	20.9	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SG-25 (5')	NM	21.1	20.9	NM	0.0	0.0	NM	0.0	0.0	NM	0.0	0.0
SG-26 (5')	21.1	21.1	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NM = not measured

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
28-Sep-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
12-Oct-10	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
19-Oct-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
27-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nov-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
9-Nov-10	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
18-Nov-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
22-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
30-Nov-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
7-Dec-10	1,940	6.5		18.4	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831		
14-Dec-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
21-Dec-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
28-Dec-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
4-Jan-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
11-Jan-11	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
25-Jan-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
1-Feb-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
10-Feb-11	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	
15-Feb-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
1-Mar-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	
8-Mar-11	2,470	6.5		18.4	0.10U					1.0U	0.10U	5.0U	1.0U	0.10U	0.4U	0.4U	1.0U	10U	19	48	210	652		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
15-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
22-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
29-Mar-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
5-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
14-Apr-11	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
19-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
26-Apr-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
3-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
10-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
17-May-11	--	6.5		--	0.10U					--	0.10U	--	1.0U	--	--	--	--	--	--	--	--	--		
24-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
31-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
7-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
21-Jun-11	2,170	6.5		17.7	0.10U					--	0.10U	--	1.0U	--	--	--	--	10.1	6.7J	58	846	719		
28-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
6-Jul-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
15-Jul-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
20-Jul-11	--	6.5		--	0.07UB					--	0.094U	--	0.2U	--	--	--	--	--	--	--	--	--		
27-Jul-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
11-Aug-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
16-Aug-11	1,700	6.5		21	0.04UB					--	0.094U	--	0.2U	--	--	--	--	0.66J	9.1J	74U	50U	770		
23-Aug-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
31-Aug-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
8-Sep-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
13-Sep-11	-	6.5		-	0.10U					-	0.094U	-	0.2U	-	-	-	-	-	-	-	-	-		
20-Sep-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
27-Sep-11	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-		

^a NA = Sample analysis was on hold and cancelled based on the results of the quick turnaround time samples.

^b NR = Sample results are not yet available from the laboratory.

^c ND = Compound was not detected in sample.

- = Not sampled.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

Qualifiers:

B = Analyte found in the method blank.

J = Estimated value.

R = Result is rejected due to quality control issues.

U = Analyte was not detected at or above the stated limit.

* = Result is suspect. Refer to discussion of WPDES monitoring in Technical Status Report text.

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 1	Task Title: PROJECT PLANNING AND SUPPORT	Task Category Code: PP
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR							
Direct Labor							
GERRISH, THERESA A	P-4	3.50		3.50			
JOHNSON, ISAAC H		3.00		23.00			
ARPS, PAUL	P-3	2.00		8.00			
DAVIS, JONATHAN J				1.00			
DICKENS, THURMAN WARD				2.00			
MC KENNA, ELIZABETH A		6.00		136.00			
SNYDER, RICHARD BORDEN				2.00			
GRIGNON, CHRISTINA	P-2	3.30		11.00			
NIEBAUER, MICHAEL P				58.00			
POSTON, GAILA J		4.00		33.00			
TIBERII, NEAL A				3.00			
JOMMEN DAVELEY, LISA KRIS	P-1			0.80			
OLSON, SHANNON		8.00		41.00			
SCHLEI, REBECCA	T-2			2.50			
STREHLOW, ROBERT W				0.80			
WILSON, CHERYL L	T-1	3.20		6.20			
TOTAL, PROFESSIONAL		33.00	1,234.67	331.80	12,726.35	1,227.99	51,084.46
Clerical							
AJIBOLA, STEPHEN OLAYIWOL	Clerical	0.50		2.10			
COHEN, KEVIN W		14.00		28.00			
DOOLAN, TARA E.				1.00			
DOWNEY, TRACY T.				5.40			
DUBEY, JOAN		1.10		1.90			
GAUGER, ELAINE A		0.20		3.00			
JOSHI, PUSHPA				0.50			

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

<i>Task Number:</i> 1	<i>Task Title:</i> PROJECT PLANNING AND SUPPORT	<i>Task Category Code:</i> PP
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
KERN, KENNETH	Clerical			0.50			
KOHLMAN, MONICA				8.30			
LARSON, SHEILA K				4.80			
LAURENT, SHARON M		1.10		3.40			
REMOND, CHERYL A		2.10		10.00			
WHARTON, WILL				5.10			
WONG, KWOK		0.40		1.70			
TOTAL, CLERICAL		19.40	454.04	75.70	1,705.36	290.00	7,265.70
TOTAL, PRIME DIRECT LABOR		52.40	1,688.71	407.50	14,431.71	1,517.99	58,350.16
TOTAL, PRIME DIRECTS		52.40	6,008.79	407.50	52,318.96	1,517.99	260,766.44

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

<i>Task Number:</i> 1	<i>Task Title:</i> PROJECT PLANNING AND SUPPORT	<i>Task Category Code:</i> PP
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
KLUGE, MATTHEW D	P-4			1.00			
ORMAN, MARK				1.00			
SCHWAN, LISA MARIE				1.00			
HAAS, CRAIG D	P-2			4.00			
KINSCHER, NANCY B				0.80			
TOTAL, PROFESSIONAL				7.80	330.22	4.00	313.23
Clerical							
CONFAIR, DAWN ELIZABETH	Clerical			2.60			
TOTAL, CLERICAL				2.60	63.65		
TOTAL, PRIME DIRECT LABOR				10.40	393.87	4.00	313.23
TOTAL, PRIME DIRECTS				10.40	578.90	4.00	459.65

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 1 *Task Title:* PROJECT PLANNING AND SUPPORT *Task Category Code:* PP

SUBTOTALS FOR TASK 1 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	33.00	1,234.67	339.60	13,056.57	1,231.99	51,397.69
SUBTOTAL, DIRECT LABOR (Clerical)	19.40	454.04	78.30	1,769.01	290.00	7,265.70
SUBTOTAL, TASK 1 COSTS	52.40	6,008.79	417.90	52,897.86	1,521.99	261,226.09

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 3 Task Title: PROCUREMENT OF SUBCONTRACT Task Category Code: PB

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
BOZZINI, CHRISTOPHER F	P-4			1.00			
ABADIE, LORI A	P-3			3.00			
DAVIS, JONATHAN J				30.00			
DICKENS, THURMAN WARD				6.00			
MC KENNA, ELIZABETH A				79.00			
GRIGNON, CHRISTINA	P-2			0.50			
NIEBAUER, MICHAEL P		1.00		19.00			
MAIHOFER, SARA ANNE	P-1			9.00			
NAVARRO, DONNA M		26.00		300.00			
OLSON, SHANNON				23.00			
TOTAL, PROFESSIONAL		27.00	661.43	470.50	13,801.08	1,240.00	46,948.12
TOTAL, PRIME DIRECT LABOR		27.00	661.43	470.50	13,801.08	1,240.00	46,948.12
TOTAL, PRIME DIRECTS		27.00	1,568.75	470.50	33,732.48	1,240.00	117,054.19

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 3 Task Title: PROCUREMENT OF SUBCONTRACT Task Category Code: PB

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

KLUGE, MATTHEW D	P-4			6.00			
ORMAN, MARK				5.00			
SCHWAN, LISA MARIE				1.00			
KNOX, WILLIAM P	P-2			3.00			
TOTAL, PROFESSIONAL				15.00	808.31	84.00	6,577.90
TOTAL, PRIME DIRECT LABOR				15.00	808.31	84.00	6,577.90
TOTAL, PRIME DIRECTS				15.00	1,187.88	84.00	9,653.06

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 3 *Task Title:* PROCUREMENT OF SUBCONTRACT *Task Category Code:* PB

SUBTOTALS FOR TASK 3 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	27.00	661.43	485.50	14,609.39	1,324.00	53,526.02
SUBTOTAL, TASK 3 COSTS	27.00	1,568.75	485.50	34,920.36	1,324.00	126,707.25

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00,	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 4 Task Title: MANAGEMENT SUPPORT Task Category Code: MS

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

MC KENNA, ELIZABETH A	P-3	1.00		39.00			
MAIHOFFER, SARA ANNE	P-1	2.00		5.00			
TOTAL, PROFESSIONAL		3.00	93.65	44.00	1,856.93	1,226.00	44,096.28
TOTAL, PRIME DIRECT LABOR		3.00	93.65	44.00	1,856.93	1,226.00	44,096.28
TOTAL, PRIME DIRECTS		3.00	241.36	44.00	4,518.20	1,226.00	109,051.47

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 4 Task Title: MANAGEMENT SUPPORT Task Category Code: MS

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

COLLINS, CINDY L	P-3			3.00			
YOUNG, NICOLE S	P-2	3.00	83.31	20.00			
TOTAL, PROFESSIONAL		3.00	83.31	23.00	693.88		

Clerical

STALLWORTH, SUSIE M	Clerical			0.40			
TOTAL, CLERICAL				0.40	8.69		
TOTAL, PRIME DIRECT LABOR		3.00	83.31	23.40	702.57		
TOTAL, PRIME DIRECTS		3.00	122.85	23.40	1,033.19		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CRITIGEN LLC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

<i>Task Number:</i> 4	<i>Task Title:</i> MANAGEMENT SUPPORT	<i>Task Category Code:</i> MS
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

TEAM SUB CONTRACTOR

TOTAL, PROFESSIONAL	58.00	5,748.57
TOTAL, PRIME DIRECT LABOR	58.00	5,748.57
TOTAL, PRIME DIRECTS	58.00	6,035.99

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 4 Task Title: MANAGEMENT SUPPORT Task Category Code: MS

SUBTOTALS FOR TASK 4 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	6.00	176.96	67.00	2,550.81	1,284.00	49,844.85
SUBTOTAL, DIRECT LABOR (Clerical)			0.40	8.69		
SUBTOTAL, TASK 4 COSTS	6.00	364.21	67.40	5,551.39	1,284.00	115,087.46

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 6	Task Title: ANALYTICAL SUPPORT & DATA VAL	Task Category Code: AN
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
MC KENNA, ELIZABETH A	P-3	1.00		1.00			
OLSON, SHANNON	P-1	6.00		49.00			
SHEKOSKI, DAVID L	T-2			0.50			
TOTAL, PROFESSIONAL		7.00	165.39	50.50	1,049.19	978.00	29,503.96
Clerical							
JERAY, GREGG R	Clerical			0.20			
TOTAL, CLERICAL				0.20	3.31		
TOTAL, PRIME DIRECT LABOR		7.00	165.39	50.70	1,052.50	978.00	29,503.96
TOTAL, PRIME DIRECTS		7.00	400.76	50.70	2,634.87	978.00	73,130.15

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 6 Task Title: ANALYTICAL SUPPORT & DATA VAL Task Category Code: AN

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Clerical							
DOMBROWSKI, MARGARET	Clerical			0.30			
TOTAL, CLERICAL				0.30	7.13		
TOTAL, PRIME DIRECT LABOR				0.30	7.13		
TOTAL, PRIME DIRECTS				0.30	10.51		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CRITIGEN LLC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

<i>Task Number:</i> 6	<i>Task Title:</i> ANALYTICAL SUPPORT & DATA VAL	<i>Task Category Code:</i> AN
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

TEAM SUB CONTRACTOR

TOTAL, PROFESSIONAL	51.00	3,770.26
TOTAL, PRIME DIRECT LABOR	51.00	3,770.26
TOTAL, PRIME DIRECTS	51.00	3,958.77

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 6 *Task Title:* ANALYTICAL SUPPORT & DATA VAL *Task Category Code:* AN
SUBTOTALS FOR TASK 6 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	7.00	165.39	50.50	1,049.19	1,029.00	33,274.22
SUBTOTAL, DIRECT LABOR (Clerical)			0.50	10.44		
SUBTOTAL, TASK 6 COSTS	7.00	400.76	51.00	2,645.38	1,029.00	77,088.92

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 7 Task Title: REMEDIAL ACTION IMPLEMENTATION Task Category Code: AI

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

CZYSCINSKI, CAROLYN K	P-3	1.50		1.50			
TOTAL, PROFESSIONAL		1.50	56.76	1.50	56.76		

Clerical

KERN, KENNETH	Clerical			4.10			
TOTAL, CLERICAL				4.10	100.86		
TOTAL, PRIME DIRECT LABOR		1.50	56.76	5.60	157.62		
TOTAL, PRIME DIRECTS		1.50	4,384.90	5.60	192,428.30	2,495,419.50	

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 7 Task Title: REMEDIAL ACTION IMPLEMENTATION Task Category Code: AI

SUBTOTALS FOR TASK 7 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	1.50	56.76	1.50	56.76		
SUBTOTAL, DIRECT LABOR (Clerical)			4.10	100.86		
SUBTOTAL, TASK 7 COSTS	1.50	4,384.90	5.60	192,428.30		2,495,419.50

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 8 Task Title: CLEANUP VALIDATION Task Category Code: CV

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

MC KENNA, ELIZABETH A	P-3			51.00			
MAIHOFER, SARA ANNE	P-1			51.00			
SHEKOSKI, DAVID L	T-2	1.10		64.60			
STREHLOW, ROBERT W				3.50			
TOTAL, PROFESSIONAL		1.10	40.07	170.10	5,972.09	1,331.99	39,963.90
TOTAL, PRIME DIRECT LABOR		1.10	40.07	170.10	5,972.09	1,331.99	39,963.90
TOTAL, PRIME DIRECTS		1.10	131.17	170.10	21,310.60	1,331.99	155,812.72

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CRITIGEN LLC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 8 *Task Title:* CLEANUP VALIDATION *Task Category Code:* CV

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

TEAM SUB CONTRACTOR

TOTAL, PROFESSIONAL
 TOTAL, PRIME DIRECT LABOR
 TOTAL, PRIME DIRECTS

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 8 *Task Title:* CLEANUP VALIDATION *Task Category Code:* CV

SUBTOTALS FOR TASK 8 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	1.10	40.07	170.10	5,972.09	1,331.99	39,963.90
SUBTOTAL, TASK 8 COSTS	1.10	131.17	170.10	21,310.60	1,331.99	155,812.72

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 10 Task Title: PROJECT PERFORMANCE Task Category Code: PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR							
Direct Labor							
BAYER, REGINA C	P-4			3.00			
DANKO, JEFFREY H				1.00			
GERRISH, THERESA A		7.50		17.00			
JURY, MICHAEL W				1.00			
ANDRAE, WILLIAM M	P-3	2.00		6.00			
MC KENNA, ELIZABETH A		8.00		72.00			
GRIGNON, CHRISTINA	P-2			2.00			
JOHNSON, CARLAN C.				8.00			
NIEBAUER, MICHAEL P		24.00		120.00			
PATTERSON, DAVID				1.00			
MAIHOFER, SARA ANNE	P-1	11.00		107.00			
OLSON, SHANNON		13.00		44.00			
BROUGHMAN, SHAWN	T-2	236.00		1,278.00			
SCHLEI, REBECCA				1.00			
SHEKOSKI, DAVID L				9.60			
STREHLOW, ROBERT W		0.50		6.70			
FOXWORTHY, TERRY	T-1			1.30			
MAYER, KEVIN F				0.50			
TOTAL, PROFESSIONAL		302.00	8,106.19	1,679.10	45,016.78	8,576.99	278,144.97
Clerical							
GAUGER, ELAINE A	Clerical			0.50			
JERAY, GREGG R				0.50			
KERN, KENNETH				1.50			
LIVELY, PAUL				0.10			
MEIDL, JOHN BENEDICT				0.30			

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 10 *Task Title:* PROJECT PERFORMANCE *Task Category Code:* PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
TOTAL, CLERICAL				2.90	64.71		
TOTAL, PRIME DIRECT LABOR		302.00	8,106.19	1,682.00	45,081.49	8,576.99	278,144.97
TOTAL, PRIME DIRECTS		302.00	26,557.87	1,682.00	172,202.67	8,576.99	1,033,321.51

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 10 Task Title: PROJECT PERFORMANCE Task Category Code: PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
BALLANTYNE, NANCY A	P-4			3.00			
BOSAK JR, JOHN B	P-3			26.00			
TOTAL, PROFESSIONAL				29.00	1,397.04		
Clerical							
BEREND-SEECHARRAN, HEDWIG	Clerical			0.50			
TOTAL, CLERICAL				0.50	14.21		
TOTAL, PRIME DIRECT LABOR				29.50	1,411.25		
TOTAL, PRIME DIRECTS				29.50	2,271.56		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: OPERATIONS MANAGEMENT INTERNATIONAL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 8/27/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 11/3/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B097
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 10 Task Title: PROJECT PERFORMANCE Task Category Code: PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

LUNDBERG, JOHN	P-1	69.50			
TOTAL, PROFESSIONAL		69.50	1,894.57		
TOTAL, PRIME DIRECT LABOR		69.50	1,894.57		
TOTAL, PRIME DIRECTS		69.50	3,390.03		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 10 Task Title: PROJECT PERFORMANCE Task Category Code: PJ

SUBTOTALS FOR TASK 10 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	302.00	8,106.19	1,777.60	48,308.39	8,576.99	278,144.97
SUBTOTAL, DIRECT LABOR (Clerical)			3.40	78.92		
SUBTOTAL, TASK 10 COSTS	302.00	26,557.87	1,781.00	177,864.26	8,576.99	1,033,321.51

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 11 *Task Title:* PROJECT COMPLETION & CLOSE OUT *Task Category Code:* PC

SUBTOTALS FOR TASK 11 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

SUBTOTAL, DIRECT LABOR (Professional)	376.00	17,464.09
SUBTOTAL, DIRECT LABOR (Clerical)	20.00	501.08
SUBTOTAL, TASK 11 COSTS	396.00	42,740.48

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Task Number: 12 Task Title: WORK ASSIGNMENT/TASK ORDER CLOSE OUT Task Category Code: CO

SUBTOTALS FOR TASK 12 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)					13.99	480.95
SUBTOTAL, DIRECT LABOR (Clerical)					15.00	375.81
SUBTOTAL, TASK 12 COSTS					28.99	2,363.33

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

WORK ASSIGNMENT TOTALS ALL TASKS

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
TOTAL, DIRECT LABOR (Professional)	377.60	10,441.47	2,891.80	85,603.20	15,167.96	524,096.69
TOTAL, DIRECT LABOR (Clerical)	19.40	454.04	86.70	1,967.92	325.00	8,142.59
WORK ASSIGNMENT TOTAL, DIRECT COSTS						
Other Direct Costs		6,611.32		61,459.52		467,918.57
Travel				4,903.26		36,070.00
Computer						
Equipment		833.00		8,144.85		
Subpool		4,049.23		196,451.80		2,376,590.00
PLI (Pollution Liability Insurance) Premium		1,614.59		1,614.59		17,632.08
TOTAL, INDIRECT COSTS (Fringe, O/H, G&A)		13,630.42		105,102.22		679,229.41
TOTAL, FIXED FEES (Prime)		1,782.38		22,370.79		199,611.99
TOTAL, TEAM SUB FEES (as negotiated)						475.93
TOTAL, WORK ASSIGNMENT		39,416.45		487,618.15		4,309,767.26
	Average Hourly Rate	99.29		163.71		
	Expenditure Limit LOE		4,450.00			
	Expenditure Limit Dollars			980,000.00		

REPORT 2T

Current Month & Cumulative Status Report --- Task Level Totals within Term Form Work Assignments

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Current Month

NO.	TASK CAT. CODE	LOE (Prime/Team)						TOTAL LOE	LOE LABOR\$	CLERICAL HOURS	CLERICAL LABOR \$	PLI PREMIUM	ODCs	COMPUTER	TRAVEL	EQUIP.	SUBPOOL	INDIRECT COSTS	FEES	TOTAL \$	
		P-4	P-3	P-2	P-1	T-2	T-1														
1	PP	6.50	8.00	7.30	8.00		3.20	33.00	1,234.67	19.40	454.04	1,614.59							2,122.70	6,008.79	
3	PB			1.00	26.00			27.00	661.43										831.42	1,568.75	
4	MS		1.00	3.00	2.00			6.00	176.96									157.25	364.21		
6	AN		1.00		6.00			7.00	165.39									207.89	400.76		
7	AI		1.50					1.50	56.76							4,008.32		71.35	4,384.90		
8	CV					1.10		1.10	40.07									50.37	131.17		
10	PJ	7.50	10.00	24.00	24.00	236.50		302.00	8,106.19							40.91		10,189.44	26,557.87		
<i>Work Assignment Subtotal</i>												6,611.32	0.00	0.00	833.00						
Team Sub Fees																		0.00			
Base Fees - Prime																		0.00			
Performance Fees																		0.00			
Fixed Fees																		1,782.38			
TOTAL		14.00	21.50	35.30	66.00	237.60	3.20	377.60	10,441.47	19.40	454.04	1,614.59	6,611.32	0.00	0.00	833.00	4,049.23	13,630.42	1,782.38	39,416.45	

REPORT 2T

Current Month & Cumulative Status Report --- Task Level Totals within Term Form Work Assignments

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

Cumulative

TASK		LOE (Prime/Team)						TOTAL LOE	LOE LABOR\$	CLERICAL HOURS	CLERICAL LABOR \$	PLI PREMIUM	ODCs	COMPUTER	TRAVEL	EQUIP.	SUBPOOL	INDIRECT COSTS	FEES	TOTAL \$	
NO.	CAT. CODE	P-4	P-3	P-2	P-1	T-2	T-1														
1	PP	29.50	149.00	109.80	41.80	3.30	6.20	339.60	13,056.57	78.30	1,769.01	1,614.59						18,325.70		52,897.86	
3	PB	13.00	118.00	22.50	332.00			485.50	14,609.39									17,727.53		34,920.36	
4	MS		42.00	20.00	5.00			67.00	2,550.81	0.40	8.69							2,664.78		5,551.39	
6	AN		1.00		49.00	0.50		50.50	1,049.19	0.50	10.44							1,326.36		2,645.38	
7	AI		1.50					1.50	56.76	4.10	100.86					182,233.36		198.14		192,428.30	
8	CV		51.00		51.00	68.10		170.10	5,972.09									7,506.91		21,310.60	
10	PJ	25.00	104.00	131.00	220.50	1,295.30	1.80	1,777.60	48,308.39	3.40	78.92					14,218.44		57,352.80		177,864.26	
<i>Work Assignment Subtotal</i>												61,459.52	0.00	4,903.26	8,144.85						
<i>Team Sub Fees</i>																		0.00			
<i>Base Fees - Prime</i>																		0.00			
<i>Performance Fees</i>																		0.00			
<i>Fixed Fees</i>																		22,370.79			
TOTAL		67.50	466.50	283.30	699.30	1,367.20	8.00	2,891.80	85,603.20	86.70	1,967.92	1,614.59	61,459.52	0.00	4,903.26	8,144.85	196,451.80	105,102.22	22,370.79	487,618.15	

Adjustments/Disallowed Costs

TASK		INVOICE NUMBER	SUSPENDED		RE-BILLED		DISALLOWED	
NO.	CAT. CODE		DATE	AMOUNT	DATE	AMOUNT	DATE	AMOUNT
TOTAL								

REPORT 3T

Variance Based on Extended To-Date Report --- Task Level --- Term Form Work Assignment

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 8/27/11
 Reporting Period To: 9/30/11
 Invoice Date: 11/3/11
 Invoice Number: B097
 Invoice Purpose: Monthly Progress

TASK NO.	TASK CAT. CODE	TASK TITLE	CUMULATIVE LOE	CUMULATIVE TOTAL LOADED \$ INVOICED	DOLLARS INCURRED BUT NOT INVOICED	TOTAL INVOICED + INCURRED BUT NOT INVOICED	APPROVED BUDGET		VARIANCE BASED ON APPROVED BUDGET			EXPENDITURE LIMIT		VARIANCE BASED ON EXPENDITURE LIMIT	
							LOE	DOLLARS	% LOE INVOICED	% DOLLARS INVOICED	% INV'D+INCUR'D BUT NOT INV'D	LOE	DOLLARS	% LOE INVOICED	% DOLLARS INVOICED
1	PP	PROJECT PLANNING AND SUPPORT	339.60	52,897.86	0.00	52,897.86	1,231.99	261,226.09	27.57	20.25	20.25	600.00	74,085.00	56.60	71.40
3	PB	PROCUREMENT OF SUBCONTRACT	485.50	34,920.36	0.00	34,920.36	1,324.00	126,707.25	36.67	27.56	27.56	715.00	34,987.00	67.90	99.81
4	MS	MANAGEMENT SUPPORT	67.00	5,551.39	0.00	5,551.39	1,284.00	115,087.46	5.22	4.82	4.82	187.00	12,752.00	35.83	43.53
6	AN	ANALYTICAL SUPPORT & DATA VAL	50.50	2,645.38	0.00	2,645.38	1,029.00	77,088.92	4.91	3.43	3.43	248.00	8,863.00	20.36	29.85
7	AI	REMEDIAL ACTION IMPLEMENTATION	1.50	192,428.30	0.00	192,428.30	0.00	2,495,419.50	0.00	7.71	7.71	0.00	433,066.00	0.00	44.43
8	CV	CLEANUP VALIDATION	170.10	21,310.60	0.00	21,310.60	1,331.99	155,812.72	12.77	13.68	13.68	390.00	19,287.00	43.62	110.49
10	PJ	PROJECT PERFORMANCE	1,777.60	177,864.26	0.00	177,864.26	8,576.99	1,033,321.51	20.73	17.21	17.21	2,310.00	396,960.00	76.95	44.81
11	PC	PROJECT COMPLETION & CLOSE OUT	0.00	0.00	0.00	0.00	376.00	42,740.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	CO	WORK ASSIGNMENT/TASK ORDER CL	0.00	0.00	0.00	0.00	13.99	2,363.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				<i>Performance (Award) Fee</i>	0.00			0.00			0.00				
TOTAL			2,891.80	487,618.15	0.00	487,618.15	15,167.96	4,309,767.26	19.07	11.31	11.31	4,450.00	980,000.00	64.98	49.76

U.S. ENVIRONMENTAL PROTECTION AGENCY
RTP-FINANCIAL MANAGEMENT CENTER
MAIL CODE-D143-02
RESEARCH TRIANGLE PARK, NC 27711

Contract No. EP-S5-06-01
CH2M HILL, INC.
1300 S.W. 5th Ave.
Portland, OR 97201

CURRENT AND CUMULATIVE COSTS, BASE FEE AND PERFORMANCE FEE

Term Form

Penta Wood Products, WI

Work Assignment 132-LRLR-05WE

For the month of SEPTEMBER, 2011 Period: OPTION

Major Cost Element	Hours		Amount Claimed	
	Current	Cumulative	Current	Cumulative
LOE	377.60	2,891.80	10,441.47	85,603.20
Clerical	19.40	86.70	454.04	1,967.92
1. HOURS/DIRECT LABOR	397.00	2,978.50	10,895.51	87,571.12
2. FRINGE BENEFITS			4,416.31	34,492.81
3. OVERHEAD			3,211.23	24,458.96
4. GENERAL AND ADMINISTRATIVE			6,002.88	46,150.45
5. SUBTOTAL LABOR			24,525.93	192,673.34
6. OTHER DIRECT COSTS			6,611.32	61,459.52
7. COMPUTER			0.00	0.00
8. TRAVEL			0.00	4,903.26
9. EQUIPMENT			833.00	8,144.85
10. SUBTOTAL			7,444.32	74,507.63
11. TEAM SUBCONTRACTS AND SUBCONTRACT POOL				
SUBCONTRACT POOL			4,049.23	196,451.80
12. SUBTOTAL SUBCONTRACTS			4,049.23	196,451.80
13. TOTAL COSTS			36,019.48	463,632.77
14. BASE FEE			0.00	0.00
15. PERFORMANCE (AWARD) FEE			0.00	0.00
16. FIXED FEE			1,782.38	22,370.79
17. TOTAL VOUCHER LESS PLI			37,801.86	486,003.56
18. POLLUTION LIABILITY INSURANCE			1,614.59	1,614.59
19. LABORATORY SERVICES			0.00	0.00
20. AMOUNT CLAIMED THIS VOUCHER			39,416.45	487,618.15
21. LESS PRIOR PAYMENTS				280,264.70
22. TOTAL AMOUNT DUE				207,353.45

Rec 1/18/12
PJ+ on BRPTS
1/18/12
(43)

RAC2 TECHNICAL STATUS REPORT
April 30, 2011 to September 30, 2011

WORK ASSIGNMENT NUMBER: 004-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 344511
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: September 30, 2011
COPIES: RPM: Linda Martin, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Phil Richard, WDNR, Park Falls, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

No additional activities for this task were performed during the reporting period; however, there are trailing costs associated with the treatment system operation, new extraction well installation, and analytical support that were incurred before the end of the Base Period. Trailing costs include:

- Travel expenses
- Equipment and supplies
- Subcontract (Layne Christensen Company, North Shore Environmental Construction, Inc, and Alar Chemical Sales, Inc.)

The PLI premium for Region 5 RAC2 has been reallocated and invoiced to the individual work assignments based on actual costs from September 1, 2010 through March 14, 2011.

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

None.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

None.

6. Key Personnel Changes

None.

7. Subcontractor Services

None.

8. Travel

Travel for Craig Haas was reported in previous month's Technical Status Reports.

9. Laboratories

None.

10. Project Performance

None.

U.S. ENVIRONMENTAL PROTECTION AGENCY
RTP-FINANCIAL MANAGEMENT CENTER
MAIL CODE-D143-02
RESEARCH TRIANGLE PARK, NC 27711

Contract No. EP-S5-06-01
CH2M HILL, INC.
1300 S.W. 5th Ave.
Portland, OR 97201

CURRENT AND CUMULATIVE COSTS, BASE FEE AND PERFORMANCE FEE
Completion Form
Penta Wood Products, WI
Work Assignment 004-LRLR-05WE
For the month of SEPTEMBER,2011 RATE ADJ Period: BASE

Major Cost Element	----- Hours -----		----- Amount Claimed -----	
	Current	Cumulative	Current	Cumulative
LOE	1.00	26,277.30	0.00	734,166.31
Clerical	0.00	2,324.40	0.00	58,047.62
1. HOURS/DIRECT LABOR	1.00	28,601.70	0.00	792,213.93
2. FRINGE BENEFITS			0.00	267,363.22
3. OVERHEAD			0.00	274,741.66
4. GENERAL AND ADMINISTRATIVE			220.91	320,456.54
5. SUBTOTAL LABOR			220.91	1,654,775.35
6. OTHER DIRECT COSTS			135.14	366,446.35
7. COMPUTER			0.00	1,791.97
8. TRAVEL			2,124.35	77,170.08
9. EQUIPMENT			419.00	68,876.92
10. SUBTOTAL			2,678.49	514,285.32
11. TEAM SUBCONTRACTS AND SUBCONTRACT POOL				
CRITIGEN LLC			75.48	4,603.97
SUBCONTRACT POOL			6,772.91	3,514,848.10
12. SUBTOTAL SUBCONTRACTS			6,848.39	3,519,452.07
13. TOTAL COSTS			9,747.79	5,688,512.74
14. BASE FEE			0.00	0.00
15. PERFORMANCE (AWARD) FEE			0.00	0.00
16. FIXED FEE			487.40	275,348.60
17. TOTAL VOUCHER LESS PLI			10,235.19	5,963,861.34
18. POLLUTION LIABILITY INSURANCE			420.65	13,384.24
19. LABORATORY SERVICES			0.00	0.00
20. AMOUNT CLAIMED THIS VOUCHER			10,655.84	5,977,245.58
21. LESS PRIOR PAYMENTS				5,966,589.74
22. TOTAL AMOUNT DUE				10,655.84

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-SS-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 1 Task Title: PROJECT PLANNING AND SUPPORT Task Category Code: PP

SUBTOTALS FOR TASK 1 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)			3,675.00	113,731.77	3,942.96	127,370.12
SUBTOTAL, DIRECT LABOR (Clerical)			1,365.00	29,063.58	1,334.99	30,424.39
SUBTOTAL, TASK 1 COSTS	420.65		5,040.00	497,283.49	5,277.95	539,319.22

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 4 Task Title: MANAGEMENT SUPPORT Task Category Code: -MS

SUBTOTALS FOR TASK 4 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)			2,097.20	71,430.78	1,367.99	46,998.29
SUBTOTAL, DIRECT LABOR (Clerical)			104.50	2,383.31		
SUBTOTAL, TASK 4 COSTS		5,803.00	2,201.70	741,523.35	1,367.99	479,031.95

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE	Work Area Code: LR	Contract Period: BASE
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 4/6/06
Contractor Name: CH2M HILL INC	Operable Unit: 01	WA Period of Performance End: 3/14/11
Contract Number: EP-S5-06-01	WA Form: COMPLETION	Reporting Period From: 3/15/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 1/12/12
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: A102
	Performance Based: Yes	Invoice Purpose: Monthly Progress

Task Number: 8 Task Title: CLEANUP VALIDATION Task Category Code: CV

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

SMITH, PHILIP R	P-4			56.00			
ARPS, PAUL	P-3			6.00			
DICKENS, THURMAN WARD				18.00			
MC KENNA, ELIZABETH A				180.00			
MOORE, DANIEL J				1.00			
REDDY, BHAVANA				1.00			
TELFORD, JENNIFER ANN				51.60			
ABADIE, LORI A	P-2			1.00			
ANDRAE, WILLIAM M				4.00			
EHRHARDT, DEBRA				1.30			
FEHN, CAROLYN K				53.00			
HANSEN, JUSTIN				4.00			
JOHNSON, CARLAN C.				54.00			
LOWE, SHANE				1.00			
MAC GREGOR, KAROLINE MAE				70.00			
MUELLER, IAN M				166.00			
ROHDE, BETHANY JO				37.00			
TORTOMASI, JON J				62.00			
WALKER, CHRISTIE LYNN				21.00			
DAVIS, KENNETH J.	P-1			2.00			
EACRET, JAMES D.				8.00			
FEHN, CAROLYN K				55.00			
HODACH, HEATHER				10.60			
KORPELA, ADRIENNE M.				151.00			
MAIHOFER, SARA ANNE				1.00			
NECHVATAL, MATTHEW				3.00			

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE	Work Area Code: LR	Contract Period: BASE
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 4/6/06
Contractor Name: CH2M HILL INC	Operable Unit: 01	WA Period of Performance End: 3/14/11
Contract Number: EP-S5-06-01	WA Form: COMPLETION	Reporting Period From: 3/15/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 9/30/11
State: WI	Type Funding: WA Funded	Invoice Date: 1/12/12
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: A102
	Performance Based: Yes	Invoice Purpose: Monthly Progress

<i>Task Number:</i> 8	<i>Task Title:</i> CLEANUP VALIDATION	<i>Task Category Code:</i> CV
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
OLSON, SHANNON	P-1			1,066.00			
PAUKNER, STEVEN L				80.00			
WALKER, CHRISTIE LYNN				123.00			
FOXWORTHY, TERRY	T-2			1.00			
MAYER, KEVIN F				11.30			
SHEKOSKI, DAVID L				981.40			
STREHLOW, ROBERT W				72.80			
EACRET, JAMES D.	T-1			1.00			
FOXWORTHY, TERRY				0.50			
MAYER, KEVIN F				1.00			
STREHLOW, ROBERT W				6.40			
TOTAL, PROFESSIONAL				3,362.90	90,423.80	4,136.99	118,127.68
Clerical							
JERAY, GREGG R	Clerical			1.10			
KERN, KENNETH				2.70			
LAURENT, SHARON M				21.50			
MEIDL, JOHN BENEDICT				0.60			
MERKEL, MARCY A				22.20			
REMOND, CHERYL A				2.50			
SCHULZ, SUSAN K				0.90			
TOTAL, CLERICAL				51.50	1,148.74	27.00	615.83
TOTAL, PRIME DIRECT LABOR				3,414.40	91,572.54	4,163.99	118,743.51
TOTAL, PRIME DIRECTS		1,339.27		3,414.40	495,748.99	4,163.99	597,382.58

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 8 Task Title: CLEANUP VALIDATION Task Category Code: CV

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
ORMAN, MARK	P-4			1.00			
TOTAL, PROFESSIONAL				1.00	52.13		
Clerical							
CONFAIR, DAWN ELIZABETH	Clerical			1.00			
DOMBROWSKI, MARGARET				0.50			
TOTAL, CLERICAL				1.50	30.75	1.00	22.77
TOTAL, PRIME DIRECT LABOR				2.50	82.88	1.00	22.77
TOTAL, PRIME DIRECTS				2.50	120.02	1.00	33.74

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CRITIGEN LLC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 8 Task Title: CLEANUP VALIDATION Task Category Code: CV

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

TEAM SUB CONTRACTOR

Direct Labor

MAC GREGOR, KAROLINE MAE	P-3			7.00			
MAC GREGOR, KAROLINE MAE	P-2			2.00			
TELFORD, JENNIFER ANN		1.00		28.40			
TOTAL, PROFESSIONAL		1.00	75.48	37.40	2,437.64		
TOTAL, PRIME DIRECT LABOR		1.00	75.48	37.40	2,437.64		
TOTAL, PRIME DIRECTS		1.00	75.48	37.40	2,833.76		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 8 *Task Title: CLEANUP VALIDATION* *Task Category Code: CV*

SUBTOTALS FOR TASK 8 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	1.00	75.48	3,401.30	92,913.57	4,136.99	118,127.68
SUBTOTAL, DIRECT LABOR (Clerical)			53.00	1,179.49	28.00	638.60
SUBTOTAL, TASK 8 COSTS	1.00	1,414.75	3,454.30	498,702.77	4,164.99	597,416.32

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 9 *Task Title:* REUSE PLAN *Task Category Code:* RV

SUBTOTALS FOR TASK 9 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

SUBTOTAL, TASK 9 COSTS

8,208.44

17,589.59

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 10 Task Title: PROJECT PERFORMANCE Task Category Code: PJ

SUBTOTALS FOR TASK 10 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)			16,295.40	435,266.59	15,692.98	393,883.41
SUBTOTAL, DIRECT LABOR (Clerical)			790.40	25,176.67	778.39	17,754.10
SUBTOTAL, TASK 10 COSTS		3,017.44	17,085.80	4,170,448.81	16,471.37	4,288,288.38

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 11

Task Title:

PROJECT COMPLETION & CLOSE OUT
 SUBTOTALS FOR TASK 11 (PRIME + TEAM SUBCONTRACTORS)

Task Category Code: PC

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)			805.40	24,084.87	770.00	23,708.73
SUBTOTAL, DIRECT LABOR (Clerical)			11.50	244.57	32.00	729.86
SUBTOTAL, TASK 11 COSTS			816.90	60,770.58	802.00	62,517.37

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Task Number: 12 *Task Title:* WORK ASSIGNMENT/TASK ORDER CLOSE OUT *Task Category Code:* CO

SUBTOTALS FOR TASK 12 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)			3.00	128.37	15.99	515.85
SUBTOTAL, DIRECT LABOR (Clerical)					15.98	364.92
SUBTOTAL, TASK 12 COSTS			3.00	308.14	31.97	2,432.25

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

WORK ASSIGNMENT TOTALS ALL TASKS

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
TOTAL, DIRECT LABOR (Professional)	1.00	75.48	26,277.30	737,555.95	25,926.91	710,604.08
TOTAL, DIRECT LABOR (Clerical)			2,324.40	58,047.62	2,189.36	49,911.87
WORK ASSIGNMENT TOTAL, DIRECT COSTS						
Other Direct Costs		135.14		366,446.35		281,117.24
Travel		2,124.35		77,170.08		58,658.00
Computer				1,791.97		6,933.70
Equipment		419.00		68,876.92		73,274.00
Subpool		6,772.91		3,514,848.10		3,491,549.99
PLI (Pollution Liability Insurance) Premium		420.65		13,384.24		24,492.31
TOTAL, INDIRECT COSTS (Fringe, O/H, G&A)		220.91		863,775.75		1,012,746.85
TOTAL, FIXED FEES (Prime)		487.40		275,348.60		277,307.04
TOTAL, BASE FEES (Prime)						
TOTAL, WORK ASSIGNMENT			10,655.84	5,977,245.58		5,986,595.08
		Average Hourly Rate	10,655.84	208.98		
		Expenditure Limit Dollars		5,986,595.00		

REPORT 1A

Work Assignment Supplemental Detail Report - Travel

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

TRAVEL BREAKDOWN

CH2M HILL CONSTRUCTORS

TRAVELER'S NAME	TRAVEL FROM	TRAVEL TO	DEPARTURE DATE	RETURN DATE	TRANSPORTATION	LODGING	PER DIEM	OTHER	TOTAL	TRAVEL PURPOSE
HAAS, CRAIG D	TAMPA, FL	SIREN, WI	12/11/2010	12/30/2010	454.50	0.00	0.00	0.00	454.50	SYSTEM MODIFICATION
HAAS, CRAIG D	TAMPA, FL	SIREN, WI	1/1/2011	1/14/2011	309.90	0.00	0.00	0.00	309.90	SYSTEM MODIFICATION
HAAS, CRAIG D	TAMPA, FL	SIREN, WI	2/8/2011	2/25/2011	484.36	0.00	0.00	0.00	484.36	SYSTEM MODIFICATION
HAAS, CRAIG D	TAMPA, FL	SIREN, WI	2/27/2011	3/5/2011	875.59	0.00	0.00	0.00	875.59	SYSTEM MODIFICATION
Total, CH2M HILL CONSTRUCTORS Travel Costs					2,124.35	0.00	0.00	0.00	2,124.35	

REPORT 2C

Current Month & Cumulative Status Report --- Task Level Totals within Completion Form Work Assignments

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Current Month

NO.	TASK CAT. CODE	LOE (Prime/Team)						LOE LABOR \$	CLERICAL HOURS	CLERICAL LABOR \$	PLI PREMIUM	ODCs	COMPUTER	TRAVEL	EQUIP.	SUBPOOL	INDIRECT COSTS	FEES	TOTAL LOE	TOTAL \$													
		P-4	P-3	P-2	P-1	T-2	T-1																										
1	PP										420.65									420.65													
4	MS														2,684.07	220.91			5,803.00														
8	CV			1.00				75.48							1,271.90			1.00	1,414.75														
10	PJ														2,816.94				3,017.44														
<i>Work Assignment Subtotal</i>																																	
Team Sub Fees																																	
Base Fees - Prime																																	
Performance Fees																																	
Fixed Fees																																	
TOTAL		0.00	0.00	1.00	0.00	0.00	0.00	75.48	0.00	0.00	420.65	135.14	0.00	2,124.35	419.00	6,772.91	220.91	487.40	1.00	10,655.84													

REPORT 2C

Current Month & Cumulative Status Report --- Task Level Totals within Completion Form Work Assignments

Work Assignment Number: 004-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 01
 WA Form: COMPLETION
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: Yes

Contract Period: BASE
 WA Period of Performance Start: 4/6/06
 WA Period of Performance End: 3/14/11
 Reporting Period From: 3/15/11
 Reporting Period To: 9/30/11
 Invoice Date: 1/12/12
 Invoice Number: A102
 Invoice Purpose: Monthly Progress

Cumulative Month

TASK		LOE (Prime/Team)						LOE LABOR \$	CLERICAL HOURS	CLERICAL LABOR \$	PLJ PREMIUM	ODCs	COMPUTER	TRAVEL	EQUIP.	SUBPOOL	INDIRECT COSTS	FEES	TOTAL LOE	TOTAL \$	
NO.	CAT. CODE	P-4	P-3	P-2	P-1	T-2	T-1														
1	PP	219.50	826.20	980.50	1,441.90	4.10	202.80	113,731.77	1,365.00	29,063.58	13,384.24				89.49	173,295.57		3,675.00	497,283.49		
4	MS	77.00	376.60	1,485.50	78.40	79.50	0.20	71,430.78	104.50	2,383.31					531,809.47	67,858.35		2,097.20	741,523.35		
8	CV	57.00	264.60	504.70	1,499.60	1,066.50	8.90	92,913.57	53.00	1,179.49					158,571.11	124,593.26		3,401.30	498,702.77		
9	RV														5,180.05				8,208.44		
10	PJ	641.00	1,117.60	1,945.30	1,394.20	1,753.90	9,443.40	435,266.59	790.40	25,176.67					2,819,197.98	465,676.90		16,295.40	4,170,448.81		
11	PC	15.50	53.00	514.70	207.00	12.80	2.40	24,084.87	11.50	244.57						32,190.30		805.40	60,770.58		
12	CO		3.00					128.37								161.37		3.00	308.14		
<i>Work Assignment Subtotal</i>															366,446.35	1,791.97	77,170.08	68,876.92			
<i>Team Sub Fees</i>																	0.00				
<i>Base Fees - Prime</i>																	0.00				
<i>Performance Fees</i>																	0.00				
<i>Fixed Fees</i>																	275,348.60				
TOTAL		1,010.00	2,641.00	5,430.70	4,621.10	2,916.80	9,657.7	737,555.95	2,324.40	58,047.62	13,384.24	366,446.35	1,791.97	77,170.08	68,876.92	3,514,848.10	863,775.75	275,348.60	26,277.30	5,977,245.58	

Adjustments/Disallowed Costs

TASK		INVOICE NUMBER	SUSPENDED		RE-BILLED		DISALLOWED	
NO.	CAT. CODE		DATE	AMOUNT	DATE	AMOUNT	DATE	AMOUNT
1	PP	A001	07/19/2006	0.00	07/19/2006	0.00	07/19/2006	514.13
TOTAL								514.13

**HAZARDOUS WASTE MANIFEST RECORDS FOR SELECTED GENERATOR
SHIPPED BETWEEN 01/01/2010 AND 01/01/2012**

EPA ID: WID006176945	Contact Person: KELI MCKENNA, CH2M HILL SITE MANAGER	FID: 807050310
Facility Name: PENTA WOOD PRODUCTS INC	135 S 84TH ST SUITE 400	SIC Code: 2491
Location Address: 8682 STH 70	MILWAUKEE, WI 53214-	County: BURNETT
SIREN, WI 54872-	Phone: (414) 847-0561 ext:	

Activity License Number Expiration Date
201 HW Generator - Large

008496976JJK Shipped: 08/29/2011 COPY 3 DNR Received: 10/26/2011 Batch/Seq: 1473 / 639
Received: 08/30/2011 TSD EPA ID: IND000646943 TSD Facility Name: TRADEBE TREATMENT & RECYCLING LLC

Transporter EPA ID	Transporter Name	Transporter Date
ILD981957236	SET ENVIRONMENTAL INC	08/29/2011

Page No.	Line No.	Waste Code/Description	Amount Shipped/Unit	Lbs Shipped
1	1	F032- WASTEWATERS, PROCESS RESIDUALS, PRESEF	37280 P	37,280
Manifest Lbs. Total				37,280

NO SECONDARY COPY AVAILABLE

008839155JJK Shipped: 08/16/2011 COPY 3 DNR Received: 10/26/2011 Batch/Seq: 1473 / 640
Received: 08/17/2011 TSD EPA ID: IND000646943 TSD Facility Name: TRADEBE TREATMENT & RECYCLING LLC

Transporter EPA ID	Transporter Name	Transporter Date
ILD981957236	SET ENVIRONMENTAL INC	08/16/2011

Page No.	Line No.	Waste Code/Description	Amount Shipped/Unit	Lbs Shipped
1	1	F032- WASTEWATERS, PROCESS RESIDUALS, PRESEF	34040 P	34,040
Manifest Lbs. Total				34,040

NO SECONDARY COPY AVAILABLE

008173569JJK Shipped: 05/31/2011 COPY 3 DNR Received: 07/26/2011 Batch/Seq: 1417 / 826
Received: 06/01/2011 TSD EPA ID: IND000646943 TSD Facility Name: TRADEBE TREATMENT & RECYCLING LLC

Transporter EPA ID	Transporter Name	Transporter Date
ILD981957236	SET ENVIRONMENTAL INC	05/31/2011

Page No.	Line No.	Waste Code/Description	Amount Shipped/Unit	Lbs Shipped
1	1	F032- WASTEWATERS, PROCESS RESIDUALS, PRESEF	19460 P	19,460
Manifest Lbs. Total				19,460

NO SECONDARY COPY AVAILABLE

HAZARDOUS WASTE MANIFEST RECORDS FOR SELECTED GENERATOR
SHIPPED BETWEEN 01/01/2010 AND 01/01/2012

006641787JJK Shipped: 03/19/2010 COPY 3 DNR Received: 05/12/2010 Batch/Seq: 1206 / 1178
Received: 03/23/2010 TSD EPA ID: OHD048415665 TSD Facility Name: ROSS INCINERATION SERVICES INC

Transporter EPA ID	Transporter Name	Transporter Date
WI0000815381	ADVANCED WASTE SERV INC - ADV. WASTE CARRIER	03/19/2010

Page No.	Line No.	Waste Code/Description	Amount Shipped/Unit	Lbs Shipped
1	1	F032- WASTEWATERS, PROCESS RESIDUALS, PRESEF	5175 G	43,160
Manifest Lbs. Total				43,160

NO SECONDARY COPY AVAILABLE

Rec 11/28/11
put on BREPS
11/29/11
(43)

RAC2 TECHNICAL STATUS REPORT

October 1, 2011 to October 28, 2011

WORK ASSIGNMENT NUMBER: 132-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-Term Response Action
CH2M HILL JOB NUMBER: 419801
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: October 28, 2011
COPIES: RPM: Linda Martin, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Phil Richard, WDNR, Park Falls, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task 1 (PP)

- Monthly project management activities were performed.

Task 3 (PB)

- Procurement activities continued for the following subcontracts:
 - Underground Storage Tank (UST) cleaning.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring.

Task 6 (AN)

- Performed monthly data validation on treatment system samples.

Task 8 (CV)

- The Forms II Lite database was created and the tags and chain-of-custody forms were printed for the annual groundwater sampling event. The sampling event occurred the week of October 17.
- Phillip Richards/Wisconsin Department of Natural resources (WDNR) visited and toured the site during the groundwater sampling event.

Task 10 (PJ)

- During the reporting period, an estimated 1.4 million gallons of groundwater were treated and discharged. To date, 140 million gallons of water have been treated. An estimated 109 gallons of liquid waste were recovered. The total

11/30/11
call w/ Mike
Mike is new
P.M.
Also new
EPA P.M.
- CH2M HILL with
meet with
the
new EPA
P.M.

volume of liquid waste recovered from March 2004 through the end of this reporting period is 44,042 gallons.

- In accordance with the current operating strategy, the bioventing system operated for 5 days, from October 24 to 28. Soil gas monitoring was performed and compared to historical measurements (see the table on page 6). Soil gas readings collected at the restart (October 24) indicated saturation of oxygen in all the locations except the two locations (SG-22 and SG-07S) in the wood chip areas. The readings for SG-07S are consistent with previous years. Airflow observed in SG-22 has been decreasing over the last few months and is now not measureable. The operator has been attempting various methods to identify or remove obstruction in the screen.
- Maurer Power was onsite on October 5 to troubleshoot the ferric pump.
- On October 10, Glacier Pure delivered ferric sulfate.
- On October 10, two 5-gallon carboys of polymer were delivered to the site by U.S. Water Service.
- Austin Lake Landscaping was onsite on October 14 and 21 to mow and trim tall weeded areas to allow the operator access to the extraction and monitoring wells.
- On October 18, North Shore Environmental Construction, Inc., picked up filter cake for offsite disposal.
- Hedlunds Gas, Inc., delivered propane on October 19.
- The Siren Fire Department conducted a fire inspection on October 21 and found no correction actions.
- Daniels Plumbing and Heating, Inc., was onsite on October 25 and October 26 to install the pressure relief gauge and the backflow preventer on the propane tank.
- On October 25, Alar Engineering delivered two pallets of diatomaceous earth.
- Maurer Power was onsite on October 26 to install the equalization pump and motor.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table located at the end of this report. The concentrations of analytes complied with the discharge criteria in the WPDES Permit No. WI-0061531-01-0, except for arsenic. The concentration of arsenic exceeded the monthly permit average of 5 micrograms per liter ($\mu\text{g}/\text{L}$) at 9.1 $\mu\text{g}/\text{L}$. Similar concentrations have been observed in the past; however, there is no corrective action since the treatment system is not designed to treat metals. Although the permit limit is based on a monthly average, only a single arsenic sample is collected every quarter in accordance with the permit sample frequency.

Task 11 (PC)

- None.

Task 12 (CO)

- None.

Summary of Project Status						
Task No/ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
1 (PP)	03/15/11	03/15/11	11/31/14		21	0
3 (PB)	03/15/11	03/15/11	08/31/14		29	0
4 (MS)	03/15/11	03/15/11	11/31/14		5	0
6 (AN)	04/01/11	04/01/11	11/31/14		5	0
7 (AD)	04/01/11	04/01/11	11/31/14		12	0
8 (CV)	06/27/11		08/31/14		23	0
10 (PJ)	03/15/11	03/15/11	08/31/14		20	0
11 (PC)			11/31/14		0	0
12 (CO)			11/31/14		0	0

2. Problems Resolved

On October 3, the site operator determined that the ferric pump was not operating. On October 5, Maurer Power replaced the chemical check valve on top of the ferric tank and all associated lines were flushed; however, the pump was still not functioning properly. After further troubleshooting, it was determined that the tubing used for the pump was the incorrect size. The tubing was replaced and the pump has been operating normally.

On October 25 and 26, Daniels Plumbing and Heating, Inc., installed the replacement pressure relief gauge and backflow preventer on the propane tank. The igniter did not spark upon restart. The thermal coupling was then replaced due to clogging of the heating coils. No issues have been detected since the installation of the new parts.

3. Problem Areas and Recommended Solutions

During the routine inspections performed as part of the recent carbon change out, it was found significant rusting of the internal header system on the vessel. The vessel manufacturer will be contacted to determine what action can be taken to refurbish the vessel. It is likely the header will require replacement and the vessel relined. The efforts will have to be coordinated with a carbon change out of this vessel.

There is currently no measurable flow from bioventing well, SG-22. The operator has tried various methods to dissolve or flush the white crystalline substance in the well; however, the crystals did not dissolve in water or in acid. A sample of the material will be collected and sent to the laboratory for analysis to determine what the material is.

4. Deliverables Submitted

The Quality Assurance Project Plan Addendum was submitted on October 6.

The Transition Plan outlining CH2M HILL's proposed plan to effectively transfer the fully operational system to the WDNR by August 1, 2014, was submitted on November 1.

5. Activities Planned Next Reporting Period

Task 1 (PP)

- Monthly project management activities will be performed.

Task 3 (PB)

- A scope of work to refurbish the carbon vessel will be prepared.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring, will be performed.

Task 6 (AN)

- Monthly data validation on treatment system samples will be performed.

Task 8 (CV)

- Data from the groundwater sampling event will be reviewed.

Task 10 (PJ)

- Operation of the groundwater treatment system will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

Electrical Service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic Service:	A-1 Septic Service and Installation
Nonhazardous Waste Disposal:	Allied Waste Services
Propane Tank and Gas:	Hedlunds Gas, Inc.
DE Supplier:	Alar Chemical Sales, Inc.
Polymer:	U.S. Water Services
Treatment System Chemicals:	Glacier Pure, Inc.
Hazardous Waste Disposal:	North Shore Environmental Construction, Inc.
Carbon Changeout:	Siemens Water Technologies, Inc.
Analytical Laboratory Services:	TestAmerica, Inc.

8. Travel

Dave Shekoski, Crystal Nickel and Sara Maihofer travelled to the site on October 17 and returned to Milwaukee on October 21 for the annual groundwater sampling event. Travel charges will be invoiced during the next reported period.

Mike Niebauer travelled to the site on October 16 to attend a meeting with WDNR to discuss groundwater sampling. He returned on October 17.

9. Laboratories

System monitoring samples were submitted to TestAmerica, Inc., of North Canton, Ohio, for analysis. It is a Wisconsin-certified laboratory with the subcontract for analytical services for 2011 to 2014.

10. Project Performance

The groundwater extraction and treatment system operated continuously with only temporary shutdowns for routine maintenance.

The bioventing system operated for 5 days this month, in accordance with the modified operation schedule. Therefore, the bioventing system met the performance standard for this period.

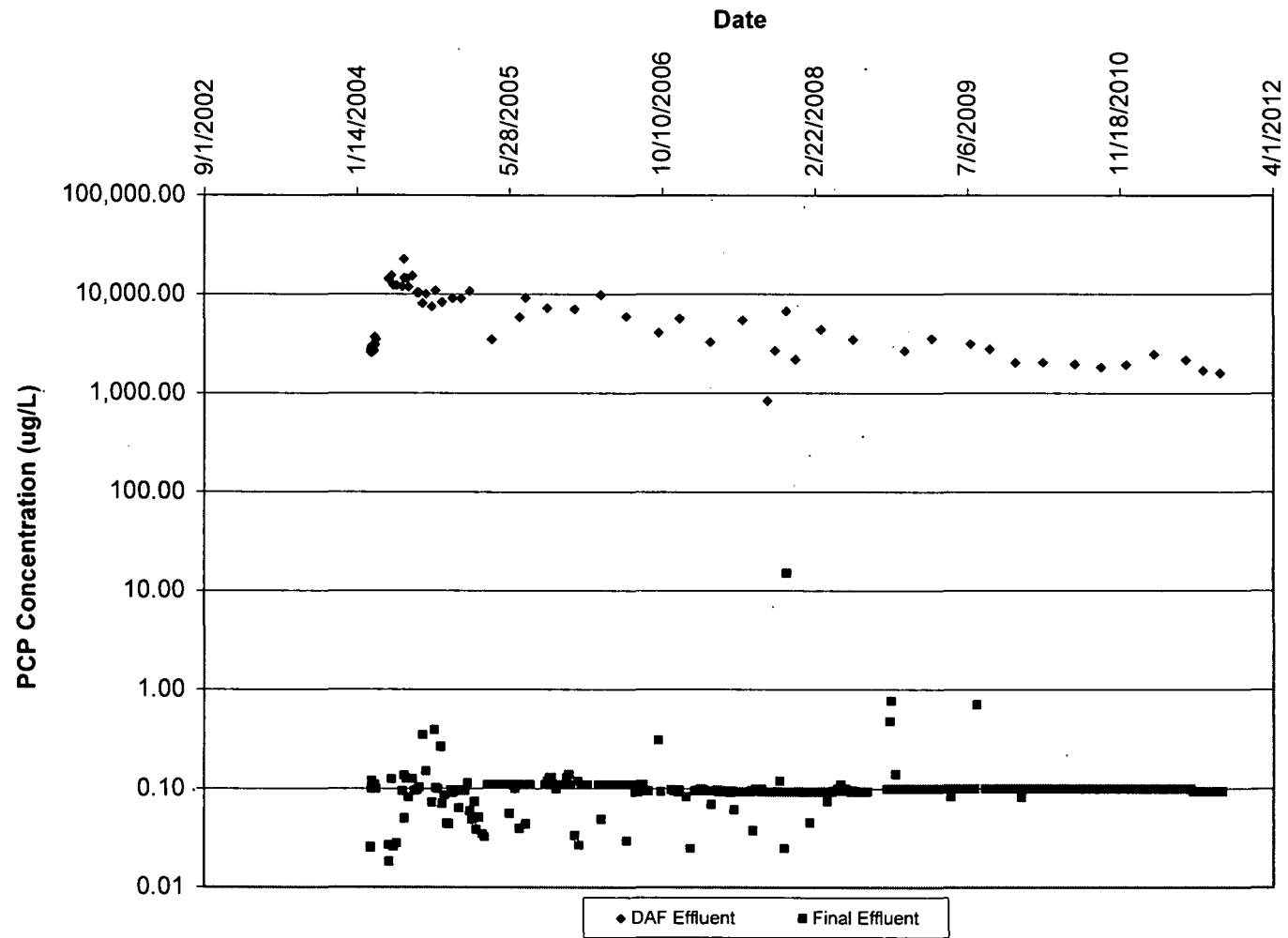
Treatment system effluent sampling results did not meet the discharge criteria in the WPDES Permit No. WI-0061531-01-0; the concentration of arsenic exceeded the permit average of 5 µg/L. However, similar concentrations have been observed in the past, and there are no corrective actions because the treatment system is not designed to treat metals.

Penta Wood Products – Biovent System												
Well ID	O ₂ (%)			CO ₂ (%)			CH ₄ (%)			LEL (%)		
	1 hour after startup (05/09/11)	9/19/2011	10/24/2011	1 hour after startup (05/09/11)	9/19/2011	10/24/2011	1 hour after startup (5/09/11)	9/19/2011	10/24/2011	1 hour after startup (05/09/11)	9/19/2011	10/24/2011
<i>Shallow</i>												
SG-22	7.8	NA	NA	13.9	NA	NA	3.5	NA	NA	61.0	NA	NA
SG-04S	20.6	20.3	20.7	0.1	0.8	0.6	0.0	0.2	0.1	0.0	0.0	0.0
SG-07S	1.6	6.2	9.8	25.5	22.8	14.0	23.4	9.6	5.1	100.0	100.0	100.0
SG-05S	19.8	19.4	20.3	0.4	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
SG-06S	20.9	20.8	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Intermediate</i>												
SG-04I	8.4	20.2	20.3	5.1	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SG-07I	16.1	19.8	20.0	2.1	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
SG-05I	19.1	20.6	20.7	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
SG-06I	20.8	20.9	20.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Deep</i>												
SG-04D	10.9	20.2	20.1	5.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
SG-07D	18.7	20.2	20.0	1.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SG-05D	19.1	20.6	20.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
SG-06D	20.5	20.7	20.7	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Perimeter</i>												
SG-23 (3')	21.1	21.1	21.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
SG-24 (5')	21.1	20.9	20.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
SG-25 (5')	NM	20.9	20.8	NM	0.0	0.0	NM	0.0	0.0	NM	0.0	0.0
SG-26 (5')	21.1	21.2	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NM = not measured

NA = not applicable, no measurable flow in S-22 to monitor

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
27-Oct-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
2-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
9-Nov-10	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
18-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
22-Nov-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
30-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
7-Dec-10	1,940	6.5		18.4	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831		
14-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
21-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
28-Dec-10	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
4-Jan-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
11-Jan-11	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
25-Jan-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
1-Feb-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
10-Feb-11	--	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
15-Feb-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
1-Mar-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
8-Mar-11	2,470	6.5		18.4	0.10U					1.0U	0.10U	5.0U	1.0U	0.10U	0.4U	0.4U	1.0U	10U	19	48	210	652		
15-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
22-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
29-Mar-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD: pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
5-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
14-Apr-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
19-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
26-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
3-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
10-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
17-May-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
24-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
31-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
7-Jun-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
21-Jun-11	2,170	6.5		17.7	0.10U					-	0.10U	-	1.0U	-	-	-	-	10.1	6.7J	58	846	719		
28-Jun-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
6-Jul-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
15-Jul-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
20-Jul-11	-	6.5		-	0.07UB					-	0.094U	-	0.2U	-	-	-	-	-	-	-	-	-		
27-Jul-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
11-Aug-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
16-Aug-11	1,700	6.5		21	0.04UB					-	0.094U	-	0.2U	-	-	-	-	0.66J	9.1J	74U	50U	770		
23-Aug-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
31-Aug-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
8-Sep-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-		
13-Sep-11	-	6.5		-	0.10U					-	0.094U	-	0.2U	-	-	-	-	-	-	-	-	-		

U.S. ENVIRONMENTAL PROTECTION AGENCY
RTP-FINANCIAL MANAGEMENT CENTER
MAIL CODE-D143-02
RESEARCH TRIANGLE PARK, NC 27711

Contract No. EP-S5-06-01
CH2M HILL, INC.
1300 S.W. 5th Ave.
Portland, OR 97201

CURRENT AND CUMULATIVE COSTS, BASE FEE AND PERFORMANCE FEE

Term Form

Penta Wood Products, WI

Work Assignment 132-LRLR-05WE

For the month of OCTOBER, 2011 Period: OPTION

Major Cost Element	----- Hours -----		----- Amount Claimed -----	
	Current	Cumulative	Current	Cumulative
LOE	562.40	3,454.20	16,299.09	101,902.29
Clerical	9.40	96.10	221.71	2,189.63
1. HOURS/DIRECT LABOR	571.80	3,550.30	16,520.80	104,091.92
2. FRINGE BENEFITS			6,678.61	41,171.42
3. OVERHEAD			4,809.09	29,268.05
4. GENERAL AND ADMINISTRATIVE			9,020.78	55,171.23
5. SUBTOTAL LABOR			37,029.28	229,702.62
6. OTHER DIRECT COSTS			8,994.80	70,454.32
7. COMPUTER			0.00	0.00
8. TRAVEL			359.78	5,263.04
9. EQUIPMENT			688.50	8,833.35
10. SUBTOTAL			10,043.08	84,550.71
11. TEAM SUBCONTRACTS AND SUBCONTRACT POOL SUBCONTRACT POOL			117,251.41	313,703.21
12. SUBTOTAL SUBCONTRACTS			117,251.41	313,703.21
13. TOTAL COSTS			164,323.77	627,956.54
14. BASE FEE			0.00	0.00
15. PERFORMANCE (AWARD) FEE			0.00	0.00
16. FIXED FEE			8,143.31	30,514.10
17. TOTAL VOUCHER LESS PLI			172,467.08	658,470.64
18. POLLUTION LIABILITY INSURANCE			0.00	1,614.59
19. LABORATORY SERVICES			0.00	0.00
20. AMOUNT CLAIMED THIS VOUCHER			172,467.08	660,085.23
21. LESS PRIOR PAYMENTS				448,201.70
22. TOTAL AMOUNT DUE				211,883.53

Rec 12/23/11
put on BRAS
12/23/11
(43)

RAC2 TECHNICAL STATUS REPORT

October 29, 2011 to November 25, 2011

WORK ASSIGNMENT NUMBER: 132-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-term Response Action
CH2M HILL JOB NUMBER: 419801
PREPARED BY: Keli McKenna/MKE, Site Manager
Mike Niebauer/MKE, Assistant Site Manager
PERIOD ENDING: November 25, 2011
COPIES: RPM: Linda Martin, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Phil Smith, CH2M HILL, Milwaukee, WI
WDNR: Phil Richard, WDNR, Park Falls, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task 1 (PP)

- Monthly project management activities were performed.

Task 3 (PB)

- Procurement activities continued for the following subcontracts:
 - Underground storage tank (UST) cleanout; bids have been received for the procurement.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring.

Task 6 (AN)

- Performed monthly data validation on treatment system samples.

Task 8 (CV)

- Portions of the annual groundwater data have been received and have been reviewed for errors.

Task 10 (PJ)

- During the reporting period, an estimated 1.7 million gallons of groundwater were treated and discharged. To date, 142 million gallons of water have been treated. An estimated 291 gallons of liquid waste were recovered. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 44,333 gallons.

- Based on the potential for methane migration because of the snow cover, the biovent system was shut down on October 28 for the winter months, similar to the winter months of 2008–2009, 2009–2010, and 2010–2011. Based on the oxygen use observed during the 2010–2011 shutdown, it is not anticipated that the oxygen level will drop below the 5 percent minimum level for aerobic biodegradation during the shutdown period. The system will resume operation in the spring.
- On October 31, Earth Energy was onsite to repair the heating units.
- Glacier Pure delivered sodium hydroxide on November 2.
- On November 2, North Shore Environmental Construction, Inc., picked up the filter cake for offsite disposal.
- On November 17, two 5-gallon carboys of polymer were delivered to the site by U.S. Water Service.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table located at the end of this report. The concentrations of analytes complied with the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Task 11 (PC)

- None.

Task 12 (CO)

- None.

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
1 (PP)	03/15/11	03/15/11	11/31/14		21	0
3 (PB)	03/15/11	03/15/11	08/31/14		29	0
4 (MS)	03/15/11	03/15/11	11/31/14		5	0
6 (AN)	04/01/11	04/01/11	11/31/14		5	0
7 (AI)	04/01/11	04/01/11	11/31/14		12	0
8 (CV)	06/27/11		08/31/14		23	0
10 (PJ)	03/15/11	03/15/11	08/31/14		20	0
11 (PC)			11/31/14		0	0
12 (CO)			11/31/14		0	0

2. Problems Resolved

None.

3. Problem Areas and Recommended Solutions

During the routine inspections performed as part of the recent carbon change out, it was found significant rusting of the internal header system on the vessel. The vessel manufacturer will be contacted to determine what action can be taken to refurbish

the vessel. It is likely the header will require replacement and the vessel relined. The efforts will have to be coordinated with a carbon change out of this vessel.

There is currently no measurable flow from bioventing well, SG-22. The operator has tried various methods to dissolve or flush the white crystalline substance in the well; however, the crystals did not dissolve in water or in acid. Using a portable air compressor air will be blown into the well in an attempt to unclog the screen.

4. Deliverables Submitted

None.

5. Activities Planned Next Reporting Period

Task 1 (PP)

- Monthly project management activities will be performed.

Task 3 (PB)

- A scope of work to refurbish the carbon vessel will be prepared.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring, will be performed.

Task 6 (AN)

- Monthly data validation on treatment system samples will be performed.

Task 8 (CV)

- Data from the groundwater sampling event will be reviewed.

Task 10 (PJ)

- Operation of the groundwater treatment system will continue.

6. Key Personnel Changes

None.

7. Subcontractor Services

Electrical Service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic Service:	A-1 Septic Service and Installation
Nonhazardous Waste Disposal:	Allied Waste Services
Propane Tank and Gas:	Hedlunds Gas, Inc.
DE Supplier:	Alar Chemical Sales, Inc.
Polymer:	U.S. Water Services
Treatment System Chemicals:	Glacier Pure, Inc.
Hazardous Waste Disposal:	North Shore Environmental Construction, Inc.

Carbon Changeout: Siemens Water Technologies, Inc.
Analytical Laboratory Services: TestAmerica, Inc.

8. Travel

Travel for Dave Shekoski, Crystal Nickel, and Sara Maihofer was reported in last month's Technical Status Report.

9. Laboratories

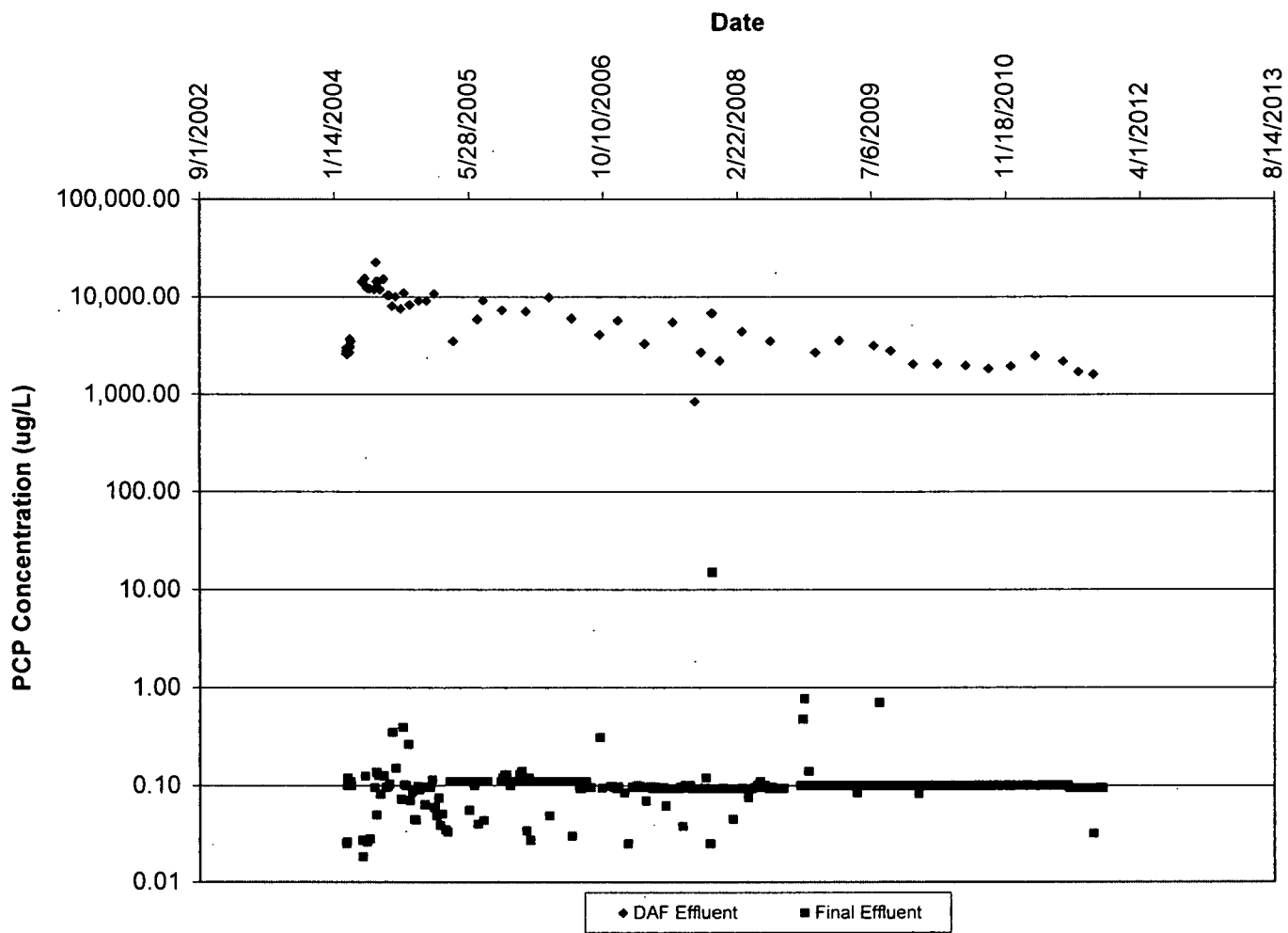
System monitoring samples were submitted to TestAmerica, Inc., of North Canton, Ohio, for analysis. It is a Wisconsin-certified laboratory with the subcontract for analytical services for 2011 to 2014.

10. Project Performance

The groundwater extraction and treatment system operated continuously with only temporary shutdowns for routine maintenance.

Treatment system effluent sampling results met the discharge criteria in the WPDES Permit No. WI-0061531-01-0.

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
30-Nov-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
7-Dec-10	1,940	6.5		18.4	0.10U					-	0.10U	-	1.0U	-	-	-	-	2.0U	9.0U	9.7	175	831		
14-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
21-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
28-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
4-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
11-Jan-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
25-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
1-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
10-Feb-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
15-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
1-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
8-Mar-11	2,470	6.5		18.4	0.10U					1.0U	0.10U	5.0U	1.0U	0.10U	0.4U	0.4U	1.0U	10U	19	48	210	652		
15-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
22-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
29-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
5-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
14-Apr-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
19-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
26-Apr-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
3-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
10-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
17-May-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-	-	-
24-May-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
31-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
7-Jun-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
21-Jun-11	2,170	6.5		17.7	0.10U					-	0.10U	-	1.0U	-	-	-	-	10.1	6.7J	58	846	719		
28-Jun-11	--	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
6-Jul-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-	-	-
15-Jul-11	--	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
20-Jul-11	-	6.5		-	0.07UB					-	0.094U	-	0.2U	-	-	-	-	-	-	-	-	-	-	-
27-Jul-11	--	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
11-Aug-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
16-Aug-11	1,700	6.5		21	0.04UB					-	0.094U	-	0.2U	-	-	-	-	0.66J	9.1J	74U	50U	770		
23-Aug-11	--	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
31-Aug-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
8-Sep-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Sep-11	--	6.5		-	0.10U					-	0.094U	-	0.2U	-	-	-	-	-	-	-	-	-	-	-
20-Sep-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Sep-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
7-Oct-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L) *	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)	
11-Oct-11	1,600	6.5		36	0.10U					-	0.032J	-	0.2U	-	-	-	-	-	9.1	2.6	71	1,000	870		
18-Oct-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-		
25-Oct-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-		
1-Nov-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-		
8-Nov-11	-	6.5		-	0.10U					-	0.095U	-	0.2U	-	-	-	-	-	-	-	-	-	-		
15-Nov-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-		
22-Nov-11	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-	-		

^a NA = Sample analysis was on hold and cancelled based on the results of the quick turnaround time samples.

^b NR = Sample results are not yet available from the laboratory.

^c ND = Compound was not detected in sample.

- = Not sampled.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

Qualifiers:

B = Analyte found in the method blank.

J = Estimated value.

R = Result is rejected due to quality control issues.

U = Analyte was not detected at or above the stated limit.

* = Result is suspect. Refer to discussion of WPDES monitoring in Technical Status Report text.

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 10/29/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 11/25/11
State: WI	Type Funding: WA Funded	Invoice Date: 12/22/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B101
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 1 Task Title: PROJECT PLANNING AND SUPPORT Task Category Code: PP

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
GERRISH, THERESA A	P-4			3.50			
JOHNSON, ISAAC H		1.00		25.00			
ARPS, PAUL	P-3			8.00			
DAVIS, JONATHAN J				1.00			
DICKENS, THURMAN WARD				2.00			
MC KENNA, ELIZABETH A		8.00		154.00			
SNYDER, RICHARD BORDEN				2.00			
GRIGNON, CHRISTINA	P-2			11.00			
NIEBAUER, MICHAEL P		8.00		66.00			
POSTON, GAILA J		2.00		39.00			
TIBERII, NEAL A				3.00			
JOMMEN DAVELEY, LISA KRIS	P-1			0.80			
OLSON, SHANNON		15.00		60.00			
SCHLEI, REBECCA	T-2	0.50		4.30			
STEARNS, SARA				0.20			
STREHLOW, ROBERT W				0.80			
WILSON, CHERYL L	T-1	2.10		10.70			
TOTAL, PROFESSIONAL		36.60	1,119.71	391.30	14,666.11	1,227.99	51,084.46
Clerical							
AJIBOLA, STEPHEN OLAYIWOL	Clerical			2.10			
COHEN, KEVIN W		1.10		30.10			
DOOLAN, TARA E.				1.00			
DOWNEY, TRACY T.				5.40			
DUBEY, JOAN		2.20		7.00			
GAUGER, ELAINE A		1.00		4.20			

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 1	Task Title: PROJECT PLANNING AND SUPPORT	Task Category Code: PP
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
JOSHI, PUSHPA	Clerical			0.50			
KAUR, NAVDEEP		1.10		1.50			
KERN, KENNETH				1.50			
KOHLMAN, MONICA				8.30			
LARSON, SHEILA K				5.10			
LAURENT, SHARON M		0.70		5.00			
REMOND, CHERYL A		2.30		13.80			
WHARTON, WILL				5.10			
WONG, KWOK		0.10		2.10			
TOTAL, CLERICAL		8.50	206.04	92.70	2,115.11	290.00	7,265.70
TOTAL, PRIME DIRECT LABOR		45.10	1,325.75	484.00	16,781.22	1,517.99	58,350.16
TOTAL, PRIME DIRECTS		45.10	3,950.17	484.00	60,185.91	1,517.99	260,766.44

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL CONSTRUCTORS	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 10/29/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 11/25/11
State: WI	Type Funding: WA Funded	Invoice Date: 12/22/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B101
	Performance Based: No	Invoice Purpose: Monthly Progress

<i>Task Number:</i> 1	<i>Task Title:</i> PROJECT PLANNING AND SUPPORT	<i>Task Category Code:</i> PP
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
KLUGE, MATTHEW D	P-4			1.00			
ORMAN, MARK				3.00			
SCHWAN, LISA MARIE				1.00			
HAAS, CRAIG D	P-2			4.00			
KINSCHER, NANCY B				0.80			
TOTAL, PROFESSIONAL				9.80	448.50	4.00	313.23
Clerical							
CONFAIR, DAWN ELIZABETH	Clerical			2.60			
TOTAL, CLERICAL				2.60	63.65		
TOTAL, PRIME DIRECT LABOR				12.40	512.15	4.00	313.23
TOTAL, PRIME DIRECTS				12.40	753.32	4.00	459.65

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 1 Task Title: PROJECT PLANNING AND SUPPORT Task Category Code: PP

SUBTOTALS FOR TASK 1 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	36.60	1,119.71	401.10	15,114.61	1,231.99	51,397.69
SUBTOTAL, DIRECT LABOR (Clerical)	8.50	206.04	95.30	2,178.76	290.00	7,265.70
SUBTOTAL, TASK 1 COSTS	45.10	3,950.17	496.40	60,939.23	1,521.99	261,226.09

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 3 Task Title: PROCUREMENT OF SUBCONTRACT Task Category Code: PB

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
BOZZINI, CHRISTOPHER F	P-4			1.00			
ABADIE, LORI A	P-3			3.00			
DAVIS, JONATHAN J				30.00			
DICKENS, THURMAN WARD				6.00			
MC KENNA, ELIZABETH A		1.00		81.00			
GRIGNON, CHRISTINA	P-2			0.50			
NIEBAUER, MICHAEL P				19.00			
MAIHOFER, SARA ANNE	P-1			9.00			
NAVARRO, DONNA M		19.00		330.00			
OLSON, SHANNON				25.00			
TOTAL, PROFESSIONAL		20.00	504.22	504.50	14,656.26	1,240.00	46,948.12
Clerical							
KERN, KENNETH	Clerical			4.10			
TOTAL, CLERICAL				4.10	100.86		
TOTAL, PRIME DIRECT LABOR		20.00	504.22	508.60	14,757.12	1,240.00	46,948.12
TOTAL, PRIME DIRECTS		20.00	1,196.19	508.60	36,014.52	1,240.00	117,054.19

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

<i>Task Number:</i> 3	<i>Task Title:</i> PROCUREMENT OF SUBCONTRACT	<i>Task Category Code:</i> PB
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
KLUGE, MATTHEW D	P-4			6.00			
ORMAN, MARK				5.00			
SCHWAN, LISA MARIE				1.00			
KNOX, WILLIAM P	P-2			3.00			
YOUNG, NICOLE S				3.00			
TOTAL, PROFESSIONAL				18.00	891.62	84.00	6,577.90
TOTAL, PRIME DIRECT LABOR				18.00	891.62	84.00	6,577.90
TOTAL, PRIME DIRECTS				18.00	1,310.74	84.00	9,653.06

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 3 *Task Title:* PROCUREMENT OF SUBCONTRACT *Task Category Code:* PB

SUBTOTALS FOR TASK 3 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	20.00	504.22	522.50	15,547.88	1,324.00	53,526.02
SUBTOTAL, DIRECT LABOR (Clerical)			4.10	100.86		
SUBTOTAL, TASK 3 COSTS	20.00	1,196.19	526.60	37,325.26	1,324.00	126,707.25

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 4 *Task Title:* MANAGEMENT SUPPORT *Task Category Code:* MS

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
CZYSCINSKI, CAROLYN K	P-3	1.50		3.00			
MC KENNA, ELIZABETH A		1.00		44.00			
MAIHOFER, SARA ANNE	P-1	2.00		10.00			
NAVARRO, DONNA M		3.00		3.00			
OLSON, SHANNON		1.00		1.00			
TOTAL, PROFESSIONAL		8.50	243.11	61.00	2,408.80	1,226.00	44,096.28
TOTAL, PRIME DIRECT LABOR		8.50	243.11	61.00	2,408.80	1,226.00	44,096.28
TOTAL, PRIME DIRECTS		8.50	581.17	61.00	5,841.95	1,226.00	109,051.47

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 4 Task Title: MANAGEMENT SUPPORT Task Category Code: MS

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

COLLINS, CINDY L	P-3			3.00			
YOUNG, NICOLE S	P-2			21.00			
TOTAL, PROFESSIONAL				24.00	721.65		

Clerical

STALLWORTH, SUSIE M	Clerical			0.40			
TOTAL, CLERICAL				0.40	8.69		
TOTAL, PRIME DIRECT LABOR				24.40	730.34		
TOTAL, PRIME DIRECTS				24.40	1,074.14		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CRITIGEN LLC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 4 Task Title: MANAGEMENT SUPPORT Task Category Code: MS

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

TEAM SUB CONTRACTOR

TOTAL, PROFESSIONAL				58.00	5,748.57		
TOTAL, PRIME DIRECT LABOR				58.00	5,748.57		
TOTAL, PRIME DIRECTS				58.00	6,035.99		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 4 *Task Title:* MANAGEMENT SUPPORT *Task Category Code:* MS

SUBTOTALS FOR TASK 4 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	8.50	243.11	85.00	3,130.45	1,284.00	49,844.85
SUBTOTAL, DIRECT LABOR (Clerical)			0.40	8.69		
SUBTOTAL, TASK 4 COSTS	8.50	581.17	85.40	6,916.09	1,284.00	115,087.46

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 6 Task Title: ANALYTICAL SUPPORT & DATA VAL Task Category Code: AN

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
DICKENS, THURMAN WARD	P-3	2.00		2.00			
MC KENNA, ELIZABETH A		5.00		7.00			
OLSON, SHANNON	P-1	11.00		78.00			
SHEKOSKI, DAVID L	T-2			0.50			
TOTAL, PROFESSIONAL		18.00	535.86	87.50	1,992.00	978.00	29,503.96
Clerical							
JERAY, GREGG R	Clerical			0.20			
TOTAL, CLERICAL				0.20	3.31		
TOTAL, PRIME DIRECT LABOR		18.00	535.86	87.70	1,995.31	978.00	29,503.96
TOTAL, PRIME DIRECTS		18.00	1,290.06	87.70	4,913.27	978.00	73,130.15

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 6 *Task Title:* ANALYTICAL SUPPORT & DATA VAL *Task Category Code:* AN

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Clerical							
DOMBROWSKI, MARGARET	Clerical			0.30			
TOTAL, CLERICAL				0.30	7.13		
TOTAL, PRIME DIRECT LABOR				0.30	7.13		
TOTAL, PRIME DIRECTS				0.30	10.51		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CRITIGEN LLC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 6 *Task Title:* ANALYTICAL SUPPORT & DATA VAL *Task Category Code:* AN

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

TEAM SUB CONTRACTOR

TOTAL, PROFESSIONAL	51.00	3,770.26
TOTAL, PRIME DIRECT LABOR	51.00	3,770.26
TOTAL, PRIME DIRECTS	51.00	3,958.77

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 6 *Task Title:* ANALYTICAL SUPPORT & DATA VAL *Task Category Code:* AN

SUBTOTALS FOR TASK 6 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	18.00	535.86	87.50	1,992.00	1,029.00	33,274.22
SUBTOTAL, DIRECT LABOR (Clerical)			0.50	10.44		
SUBTOTAL, TASK 6 COSTS	18.00	1,290.06	88.00	4,923.78	1,029.00	77,088.92

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 7 *Task Title: REMEDIAL ACTION IMPLEMENTATION* *Task Category Code: AI*

SUBTOTALS FOR TASK 7 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

SUBTOTAL, DIRECT LABOR (Professional)
 SUBTOTAL, DIRECT LABOR (Clerical)
 SUBTOTAL, TASK 7 COSTS

54,954.85 370,118.41 2,495,419.50

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 8 Task Title: CLEANUP VALIDATION Task Category Code: CV

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
MC KENNA, ELIZABETH A	P-3			51.00			
NIEBAUER, MICHAEL P	P-2	3.00		27.00			
MAIHOFFER, SARA ANNE	P-1			105.00			
NICKEL, CRYSTAL LOUISE				53.00			
OLSON, SHANNON				3.00			
SHEKOSKI, DAVID L	T-2	5.40		142.20			
STREHLOW, ROBERT W				9.10			
TOTAL, PROFESSIONAL		8.40	294.14	390.30	12,305.93	1,331.99	39,963.90
Clerical							
CAMPBELL, NATHAN	Clerical			0.50			
TOTAL, CLERICAL				0.50	10.00		
TOTAL, PRIME DIRECT LABOR		8.40	294.14	390.80	12,315.93	1,331.99	39,963.90
TOTAL, PRIME DIRECTS		8.40	4,125.99	390.80	40,714.75	1,331.99	155,812.72

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CRITIGEN LLC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

<i>Task Number:</i> 8	<i>Task Title:</i> CLEANUP VALIDATION	<i>Task Category Code:</i> CV
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Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

TEAM SUB CONTRACTOR

TOTAL, PROFESSIONAL
 TOTAL, PRIME DIRECT LABOR
 TOTAL, PRIME DIRECTS

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 8 *Task Title:* CLEANUP VALIDATION *Task Category Code:* CV

SUBTOTALS FOR TASK 8 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	8.40	294.14	390.30	12,305.93	1,331.99	39,963.90
SUBTOTAL, DIRECT LABOR (Clerical)			0.50	10.00		
SUBTOTAL, TASK 8 COSTS	8.40	4,125.99	390.80	40,714.75	1,331.99	155,812.72

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 10

Task Title:

PROJECT PERFORMANCE

Task Category Code: PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor

BAYER, REGINA C	P-4			3.00			
DANKO, JEFFREY H				1.00			
GERRISH, THERESA A		0.50		23.50			
JURY, MICHAEL W				2.00			
ANDRAE, WILLIAM M	P-3			7.00			
BLUE, RAQUEL L				22.00			
KEISER, JEWELLE I				1.00			
MC KENNA, ELIZABETH A		12.00		96.00			
GRIGNON, CHRISTINA	P-2	0.50		3.20			
JOHNSON, CARLAN C.				8.00			
NIEBAUER, MICHAEL P		24.00		168.00			
PATTERSON, DAVID				1.00			
MAIHOFER, SARA ANNE	P-1	3.00		116.00			
OLSON, SHANNON		7.00		61.00			
BROUGHMAN, SHAWN	T-2	161.00		1,635.00			
SCHLEI, REBECCA				1.00			
SHEKOSKI, DAVID L				9.60			
STREHLOW, ROBERT W		0.90		7.60			
FOXWORTHY, TERRY	T-1			1.30			
MAYER, KEVIN F				0.50			
TOTAL, PROFESSIONAL		208.90	5,628.42	2,167.70	58,744.29	8,576.99	278,144.97

Clerical

CAMPBELL, NATHAN	Clerical			0.40			
GAUGER, ELAINE A				0.50			
JERAY, GREGG R				0.50			

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 10 *Task Title:* PROJECT PERFORMANCE *Task Category Code:* PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
KERN, KENNETH	Clerical			1.50			
LIVELY, PAUL				0.10			
MEIDL, JOHN BENEDICT		0.30		0.60			
TOTAL, CLERICAL		0.30	7.64	3.60	80.35		
TOTAL, PRIME DIRECT LABOR		209.20	5,636.06	2,171.30	58,824.64	8,576.99	278,144.97
TOTAL, PRIME DIRECTS		209.20	18,131.61	2,171.30	217,567.25	8,576.99	1,033,321.51

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL CONSTRUCTORS
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 10 Task Title: PROJECT PERFORMANCE Task Category Code: PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
PRIME CONTRACTOR							
Direct Labor							
BALLANTYNE, NANCY A	P-4			3.00			
SCHWAN, LISA MARIE				2.00			
BOSAK JR, JOHN B	P-3			26.00			
TOTAL, PROFESSIONAL				31.00	1,498.02		
Clerical							
BEREND-SEECHARRAN, HEDWIG	Clerical			0.50			
TOTAL, CLERICAL				0.50	14.21		
TOTAL, PRIME DIRECT LABOR				31.50	1,512.23		
TOTAL, PRIME DIRECTS				31.50	2,420.47		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: OPERATIONS MANAGEMENT INTERNATIONAL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 10/29/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 11/25/11
State: WI	Type Funding: WA Funded	Invoice Date: 12/22/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B101
	Performance Based: No	Invoice Purpose: Monthly Progress

Task Number: 10 *Task Title:* PROJECT PERFORMANCE *Task Category Code:* PJ

Name	Job Classification	Current		Cumulative		Approved Budget	
		LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars

PRIME CONTRACTOR

Direct Labor							
LUNDBERG, JOHN	P-1			69.50			
TOTAL, PROFESSIONAL				69.50	1,894.57		
TOTAL, PRIME DIRECT LABOR				69.50	1,894.57		
TOTAL, PRIME DIRECTS				69.50	3,390.03		

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 10 *Task Title:* PROJECT PERFORMANCE *Task Category Code:* PJ

SUBTOTALS FOR TASK 10 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)	208.90	5,628.42	2,268.20	62,136.88	8,576.99	278,144.97
SUBTOTAL, DIRECT LABOR (Clerical)	0.30	7.64	4.10	94.56		
SUBTOTAL, TASK 10 COSTS	209.20	18,131.61	2,272.30	223,377.75	8,576.99	1,033,321.51

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 11 Task Title: PROJECT COMPLETION & CLOSE OUT Task Category Code: PC

SUBTOTALS FOR TASK 11 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)					376.00	17,464.09
SUBTOTAL, DIRECT LABOR (Clerical)					20.00	501.08
SUBTOTAL, TASK 11 COSTS					396.00	42,740.48

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Task Number: 12 *Task Title:* WORK ASSIGNMENT/TASK ORDER CLOSE OUT *Task Category Code:* CO

SUBTOTALS FOR TASK 12 (PRIME + TEAM SUBCONTRACTORS)

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
SUBTOTAL, DIRECT LABOR (Professional)					13.99	480.95
SUBTOTAL, DIRECT LABOR (Clerical)					15.00	375.81
SUBTOTAL, TASK 12 COSTS					28.99	2,363.33

REPORT 1

Work Assignment -- Task Level Specific Detail Report

Work Assignment Number: 132-LRLR-05WE	Work Area Code: LR	Contract Period: OPTION
Work Assignment Title: PENTA WOOD PRODUCTS, WI	Action Code: LR	WA Period of Performance Start: 3/15/11
Contractor Name: CH2M HILL INC	Operable Unit: 00	WA Period of Performance End: 11/30/14
Contract Number: EP-S5-06-01	WA Form: TERM	Reporting Period From: 10/29/11
SSID: 05WE	Type Site: Long Term Response Action	Reporting Period To: 11/25/11
State: WI	Type Funding: WA Funded	Invoice Date: 12/22/11
Region: 5	Work Assignment Status: ON-GOING	Invoice Number: B101
	Performance Based: No	Invoice Purpose: Monthly Progress

WORK ASSIGNMENT TOTALS ALL TASKS

Cost Elements	Current		Cumulative		Approved Budget	
	LOE/Hours	Dollars	LOE/Hours	Dollars	LOE/Hours	Dollars
TOTAL, DIRECT LABOR (Professional)	300.40	8,325.46	3,754.60	110,227.75	15,167.96	524,096.69
TOTAL, DIRECT LABOR (Clerical)	8.80	213.68	104.90	2,403.31	325.00	8,142.59
WORK ASSIGNMENT TOTAL, DIRECT COSTS						
Other Direct Costs		3,866.76		74,321.08		467,918.57
Travel		2,245.91		7,508.95		36,070.00
Computer						
Equipment		1,111.87		9,945.22		
Subpool		53,758.40		367,461.61		2,376,590.00
PLI (Pollution Liability Insurance) Premium				1,614.59		17,632.08
TOTAL, INDIRECT COSTS (Fringe, O/H, G&A)		10,733.63		136,344.33		679,229.41
TOTAL, FIXED FEES (Prime)		3,974.33		34,488.43		199,611.99
TOTAL, TEAM SUB FEES (as negotiated)						475.93
TOTAL, WORK ASSIGNMENT		84,230.04		744,315.27		4,309,767.26
	Average Hourly Rate	272.41		192.85		
	Expenditure Limit LOE		4,600.00			
	Expenditure Limit Dollars			1,180,000.00		

REPORT 1A

Work Assignment Supplemental Detail Report - Travel

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

TRAVEL BREAKDOWN

CH2M HILL INC

TRAVELER'S NAME	TRAVEL FROM	TRAVEL TO	DEPARTURE DATE	RETURN DATE	TRANSPORTATION	LODGING	PER DIEM	OTHER	TOTAL	TRAVEL PURPOSE
MAIHOFER, SARA ANNE	MILWAUKEE, WI	SIREN, WI	10/17/2011	10/21/2011	349.09	291.68	114.46	165.35	920.58	GROUNDWATER SAMPLING
NICKEL, CRYSTAL LOIUSE	MILWAUKEE, WI	SIREN, WI	10/17/2011	10/21/2011	0.00	291.68	81.98	0.00	373.66	GROUNDWATER SAMPLING
SHEKOSKI, DAVID L	MILWAUKEE, WI	SIREN, WI	10/17/2011	10/21/2011	403.12	291.68	77.07	179.80	951.67	GROUNDWATER SAMPLING
Total, CH2M HILL INC Travel Costs					752.21	875.04	273.51	345.15	2,245.91	

REPORT 2T

Current Month & Cumulative Status Report --- Task Level Totals within Term Form Work Assignments

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Current Month

NO.	TASK CAT. CODE	LOE (Prime/Team)						TOTAL LOE	LOE LABOR\$	CLERICAL HOURS	CLERICAL LABOR \$	PLI PREMIUM	ODCs	COMPUTER	TRAVEL	EQUIP.	SUBPOOL	INDIRECT COSTS	FEES	TOTAL \$	
		P-4	P-3	P-2	P-1	T-2	T-1														
1	PP	1.00	8.00	10.00	15.00	0.50	2.10	36.60	1,119.71	8.50	206.04							1,666.43		3,950.17	
3	PB		1.00		19.00			20.00	504.22									633.81		1,196.19	
4	MS		2.50		6.00			8.50	243.11									305.58		581.17	
6	AN		7.00		11.00			18.00	535.86									673.57		1,290.06	
7	AI															52,337.95				54,954.85	
8	CV			3.00		5.40		8.40	294.14									369.73		4,125.99	
10	PJ	0.50	12.00	24.50	10.00	161.90		208.90	5,628.42	0.30	7.64					1,420.45	7,084.51		18,131.61		
<i>Work Assignment Subtotal</i>												3,866.76	0.00	2,245.91	1,111.87						
Team Sub Fees																			0.00		
Base Fees - Prime																			0.00		
Performance Fees																			0.00		
Fixed Fees																			3,974.33		
TOTAL		1.50	30.50	37.50	61.00	167.80	2.10	300.40	8,325.46	8.80	213.68	0.00	3,866.76	0.00	2,245.91	1,111.87	53,758.40	10,733.63	3,974.33	84,230.04	

REPORT 2T

Current Month & Cumulative Status Report --- Task Level Totals within Term Form Work Assignments

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

Cumulative

TASK		LOE (Prime/Team)						TOTAL	LOE	CLERICAL	CLERICAL	PLI	ODCs	COMPUTER	TRAVEL	EQUIP.	SUBPOOL	INDIRECT	FEES	TOTAL
NO.	CAT. CODE	P-4	P-3	P-2	P-1	T-2	T-1	LOE	LABORS	HOURS	LABOR \$	PREMIUM					COSTS		\$	
1	PP	33.50	167.00	123.80	60.80	5.30	10.70	401.10	15,114.61	95.30	2,178.76	1,614.59					21,335.40		60,939.23	
3	PB	13.00	120.00	25.50	364.00			522.50	15,547.88	4.10	100.86						18,973.76		37,325.26	
4	MS		50.00	21.00	14.00			85.00	3,130.45	0.40	8.69						3,371.64		6,916.09	
6	AN		9.00		78.00	0.50		87.50	1,992.00	0.50	10.44						2,511.46		4,923.78	
7	AI															351,822.72	-4.92		370,118.41	
8	CV		51.00	27.00	161.00	151.30		390.30	12,305.93	0.50	10.00						15,481.13		40,714.75	
10	PJ	34.50	152.00	180.20	246.50	1,653.20	1.80	2,268.20	62,136.88	4.10	94.56					15,638.89	74,675.86		223,377.75	
<i>Work Assignment Subtotal</i>												74,321.08	0.00	7,508.95	9,945.22					
<i>Team Sub Fees</i>																		0.00		
<i>Base Fees - Prime</i>																		0.00		
<i>Performance Fees</i>																		0.00		
<i>Fixed Fees</i>																		34,488.43		
TOTAL		81.00	549.00	377.50	924.30	1,810.30	12.50	3,754.60	110,227.75	104.90	2,403.31	1,614.59	74,321.08	0.00	7,508.95	9,945.22	367,461.61	136,344.33	34,488.43	744,315.27

Adjustments/Disallowed Costs

TASK		INVOICE NUMBER	SUSPENDED		RE-BILLED		DISALLOWED	
NO.	CAT. CODE		DATE	AMOUNT	DATE	AMOUNT	DATE	AMOUNT

TOTAL

REPORT 3T

Variance Based on Extended To-Date Report --- Task Level --- Term Form Work Assignment

Work Assignment Number: 132-LRLR-05WE
 Work Assignment Title: PENTA WOOD PRODUCTS, WI
 Contractor Name: CH2M HILL INC
 Contract Number: EP-S5-06-01
 SSID: 05WE
 State: WI
 Region: 5

Work Area Code: LR
 Action Code: LR
 Operable Unit: 00
 WA Form: TERM
 Type Site: Long Term Response Action
 Type Funding: WA Funded
 Work Assignment Status: ON-GOING
 Performance Based: No

Contract Period: OPTION
 WA Period of Performance Start: 3/15/11
 WA Period of Performance End: 11/30/14
 Reporting Period From: 10/29/11
 Reporting Period To: 11/25/11
 Invoice Date: 12/22/11
 Invoice Number: B101
 Invoice Purpose: Monthly Progress

TASK NO.	TASK CAT. CODE	TASK TITLE	CUMULATIVE LOE	CUMULATIVE TOTAL LOADED \$ INVOICED	DOLLARS INCURRED BUT NOT INVOICED	TOTAL INVOICED + INCURRED BUT NOT INVOICED	APPROVED BUDGET		VARIANCE BASED ON APPROVED BUDGET			EXPENDITURE LIMIT		VARIANCE BASED ON EXPENDITURE LIMIT	
							LOE	DOLLARS	% LOE INVOICED	% DOLLARS INVOICED	% INV'D+INCUR'D BUT NOT INV'D	LOE	DOLLARS	% LOE INVOICED	% DOLLARS INVOICED
1	PP	PROJECT PLANNING AND SUPPORT	401.10	60,939.23	0.00	60,939.23	1,231.99	261,226.09	32.56	23.33	23.33	600.00	74,085.00	66.85	82.26
3	PB	PROCUREMENT OF SUBCONTRACT	522.50	37,325.26	0.00	37,325.26	1,324.00	126,707.25	39.46	29.46	29.46	715.00	126,707.00	73.08	29.46
4	MS	MANAGEMENT SUPPORT	85.00	6,916.09	0.00	6,916.09	1,284.00	115,087.46	6.62	6.01	6.01	187.00	12,752.00	45.45	54.24
6	AN	ANALYTICAL SUPPORT & DATA VAL	87.50	4,923.78	0.00	4,923.78	1,029.00	77,088.92	8.50	6.39	6.39	248.00	8,863.00	35.28	55.55
7	AI	REMEDIAL ACTION IMPLEMENTATION	0.00	370,118.41	0.00	370,118.41	0.00	2,495,419.50	0.00	14.83	14.83	0.00	433,066.00	0.00	85.46
8	CV	CLEANUP VALIDATION	390.30	40,714.75	0.00	40,714.75	1,331.99	155,812.72	29.30	26.13	26.13	540.00	127,567.00	72.28	31.92
10	PJ	PROJECT PERFORMANCE	2,268.20	223,377.75	0.00	223,377.75	8,576.99	1,033,321.51	26.45	21.62	21.62	2,310.00	396,960.00	98.19	56.27
11	PC	PROJECT COMPLETION & CLOSE OUT	0.00	0.00	0.00	0.00	376.00	42,740.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	CO	WORK ASSIGNMENT/TASK ORDER CL	0.00	0.00	0.00	0.00	13.99	2,363.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Performance (Award) Fee</i>				0.00				0.00							
TOTAL			3,754.60	744,315.27	0.00	744,315.27	15,167.96	4,309,767.26	24.75	17.27	17.27	4,600.00	1,180,000.00	81.62	63.08

U.S. ENVIRONMENTAL PROTECTION AGENCY
RTP-FINANCIAL MANAGEMENT CENTER
MAIL CODE-D143-02
RESEARCH TRIANGLE PARK, NC 27711

Contract No. EP-S5-06-01
CH2M HILL, INC.
1300 S.W. 5th Ave.
Portland, OR 97201

CURRENT AND CUMULATIVE COSTS, BASE FEE AND PERFORMANCE FEE

Term Form

Penta Wood Products, WI

Work Assignment 132-LRLR-05WE

For the month of NOVEMBER 2011 Period: OPTION

Major Cost Element	----- Hours -----		----- Amount Claimed -----	
	Current	Cumulative	Current	Cumulative
LOE	300.40	3,754.60	8,325.46	110,227.75
Clerical	8.80	104.90	213.68	2,403.31
1. HOURS/DIRECT LABOR	309.20	3,859.50	8,539.14	112,631.06
2. FRINGE BENEFITS			3,466.87	44,638.29
3. OVERHEAD			2,536.08	31,804.13
4. GENERAL AND ADMINISTRATIVE			4,730.68	59,901.91
5. SUBTOTAL LABOR			19,272.77	248,975.39
6. OTHER DIRECT COSTS			3,866.76	74,321.08
7. COMPUTER			0.00	0.00
8. TRAVEL			2,245.91	7,508.95
9. EQUIPMENT			1,111.87	9,945.22
10. SUBTOTAL			7,224.54	91,775.25
11. TEAM SUBCONTRACTS AND SUBCONTRACT POOL SUBCONTRACT POOL			53,758.40	367,461.61
12. SUBTOTAL SUBCONTRACTS			53,758.40	367,461.61
13. TOTAL COSTS			80,255.71	708,212.25
14. BASE FEE			0.00	0.00
15. PERFORMANCE (AWARD) FEE			0.00	0.00
16. FIXED FEE			3,974.33	34,488.43
17. TOTAL VOUCHER LESS PLI			84,230.04	742,700.68
18. POLLUTION LIABILITY INSURANCE			0.00	1,614.59
19. LABORATORY SERVICES			0.00	0.00
20. AMOUNT CLAIMED THIS VOUCHER			84,230.04	744,315.27
21. LESS PRIOR PAYMENTS				487,618.15
22. TOTAL AMOUNT DUE				256,697.12

Rec 1/27/12
P-O-N BERTS
1/27/12
(43)

RAC2 TECHNICAL STATUS REPORT

November 26, 2011 to December 30, 2011

WORK ASSIGNMENT NUMBER: 132-LRLR-05WE
SITE NAME: Penta Wood Products – OU1, WI
ACTIVITY: Long-term Response Action
CH2M HILL JOB NUMBER: 419801
PREPARED BY: Mike Niebauer/MKE, Site Manager
Shannon Olson/MKE, Assistant Site Manager
PERIOD ENDING: December 30, 2011
COPIES: RPM: Linda Martin, USEPA Region 5
PM: Isaac H. Johnson, CH2M HILL, Milwaukee, WI
RTL: Keli McKenna, CH2M HILL, Milwaukee, WI
WDNR: Phil Richard, WDNR, Park Falls, WI
WDNR: Diana Downes, WDNR, Cumberland, WI

1. Progress Made This Reporting Period

Task 1 (PP)

- Monthly project management activities were performed.

Task 3 (PB)

- Procurement activities continued for the following subcontracts:
 - The cleanout of the underground storage tank was awarded to North Shore Environmental Construction, Inc.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring.

Task 6 (AN)

- Performed monthly data validation on treatment system samples.

Task 8 (CV)

- The annual groundwater data has been received and has been reviewed for errors.
- During a review of the preliminary results, the project chemist observed an estimated detection of pentachlorophenol (PCP) at 0.040 microgram per liter in residential well RW01. The field replicate reported an estimated detection of PCP at 0.039 microgram per liter. Because the presence of PCP in the residential wells is not likely and historical results have not shown confirmed PCP detections at the residential wells, RW01 was resampled on December 16. PCP was not detected in the reanalysis; therefore, the initial result was rejected for project use.

Task 10 (PJ)

- During the reporting period, an estimated 1.9 million gallons of groundwater were treated and discharged. To date, 144 million gallons of water have been treated. An estimated 129 gallons of liquid waste were recovered. The total volume of liquid waste recovered from March 2004 through the end of this reporting period is 44,462 gallons.
- Based on the potential for methane migration because of the snow cover, the biovent system was shut down on October 28 for the winter months, similar to the winter months of 2008-2009, 2009-2010, and 2010-2011. Based on the oxygen use observed during the 2010-2011 shutdown, it is not anticipated that the oxygen level will drop below the 5 percent minimum level for aerobic biodegradation during the shutdown period. The system will resume operation in the spring.
- On November 30, December 15, and December 28, Hedlund Gas, Inc., delivered propane.
- Alar Engineering delivered two pallets of diatomaceous earth on December 2.
- On December 5 and December 20, Earth Energy was onsite to replace broken belts in the main heating unit.
- Northwestern Wisconsin Electric Co. completed utility work along Daniel 70 to repair a transformer and electrical lines on December 13 and December 17.
- On December 13, Maurer Power was onsite to repair the main breaker that tripped when the power was turned off. During the shutdown, power surged at the plant and caused a computer monitor to fail; the monitor was replaced.
- North Shore Environmental Construction, Inc., was onsite on December 14 to pump out the overflow underground storage tank. North Shore also was onsite for pickup of Filter cake for offsite disposal.
- Maurer Power was onsite on December 20 to troubleshoot the filtrate tank sensor level.
- On December 20, Daniels Plumbing cleaned out the propane lines to the furnace igniter.
- Maurer Power was onsite on December 21 to adjust the polymer pump motor speed and to replace the level sensor tree and sight glass in the oil/ water separator. Due to this maintenance, the light nonaqueous phase liquid (LNAPL) recovery pumps were shut off for a portion of the month.
- The results of the Wisconsin Pollutant Discharge Elimination System (WPDES) discharge samples were summarized and are presented in the table located at the end of this report. The concentrations of analytes complied with the discharge criteria in WPDES Permit No. WI-0061531-01-0.

Task 11 (PC)

- None.

Task 12 (CO)

- None.

Summary of Project Status						
Task No./ Code	Planned Start	Actual Start	Planned Completion	Actual Completion	Percent Complete	Schedule Variance
1 (PP)	03/15/11	03/15/11	11/31/14		26	0
3 (PB)	03/15/11	03/15/11	08/31/14		31	0
4 (MS)	03/15/11	03/15/11	11/31/14		7	0
6 (AN)	04/01/11	04/01/11	11/31/14		7	0
7 (AI)	04/01/11	04/01/11	11/31/14		18	0
8 (CV)	05/01/11	05/01/11	08/31/14		25	0
10 (PJ)	03/15/11	03/15/11	08/31/14		25	0
11 (PC)			11/31/14		0	0
12 (CO)			11/31/14		0	0

2. **Problems Resolved**

None.

3. **Problem Areas and Recommended Solutions**

During the routine inspections performed as part of the recent carbon change out, significant rusting of the internal header system on the granular activated carbon (GAC) vessel was found. The vessel manufacturer will be contacted to determine what action can be taken to refurbish the vessel. It is likely the header will require replacement and the vessel relined. The efforts will have to be coordinated during the carbon change out of this vessel.

There is currently no measurable flow from bioventing well, SG-22. The operator has tried various methods to dissolve or flush the white crystalline substance in the well; however, the crystals did not dissolve in water or in acid. Using a portable air compressor, air will be blown into the well in an attempt to unclog the screen in the spring.

On December 17, the variable frequency drive (VFD) alarmed that the filtrate tank was empty but the treatment system continued to operate. To avoid burning out the pump, the system was shut down. The site operator cleaned the filter screen and restarted the system, but the filtrate pump continued to run. Maurer Power was onsite on December 20 to assist with troubleshooting. A new level sensor was installed and the unit was recalibrated, but the tank level continued to read full when the tank was empty. It was determined that the transmitter that reads the level in the tank needed to be replaced. The part was ordered on December 27. The filtrate pump will be manually operated until the transmitter can be installed.

4. **Deliverables Submitted**

The response to comments on the *Quality Assurance Project Plan Addendum* was submitted on December 23.

5. Activities Planned Next Reporting Period

Task 1 (PP)

- Monthly project management activities will be performed.

Task 3 (PB)

- A scope of work to refurbish the carbon vessel will be prepared.

Task 4 (MS)

- Monthly financial and subcontractor management, including review and approval of invoices and cost monitoring, will be performed.

Task 6 (AN)

- Monthly data validation on treatment system samples will be performed.

Task 8 (CV)

- Data from the groundwater sampling event will be reviewed.

Task 10 (PI)

- Operation of the groundwater treatment system will continue.

6. Key Personnel Changes

Mike Niebauer will assume the role of site manager.

Keli McKenna will assume the role of review team leader.

Shannon Olson will assume the role of assistant site manager.

7. Subcontractor Services

Electrical Service:	Northwestern Wisconsin Electric Co.
Telephone:	Siren Telephone Co.
Septic Service:	A-1 Septic Service and Installation
Nonhazardous Waste Disposal:	Allied Waste Services
Propane Tank and Gas:	Hedlunds Gas, Inc.
DE Supplier:	Alar Chemical Sales, Inc.
Polymer:	U.S. Water Services
Treatment System Chemicals:	Glacier Pure, Inc.
Hazardous Waste Disposal:	North Shore Environmental Construction, Inc.
Carbon Changeout:	Siemens Water Technologies, Inc.
Analytical Laboratory Services:	TestAmerica, Inc.

8. Travel

None.

9. Laboratories

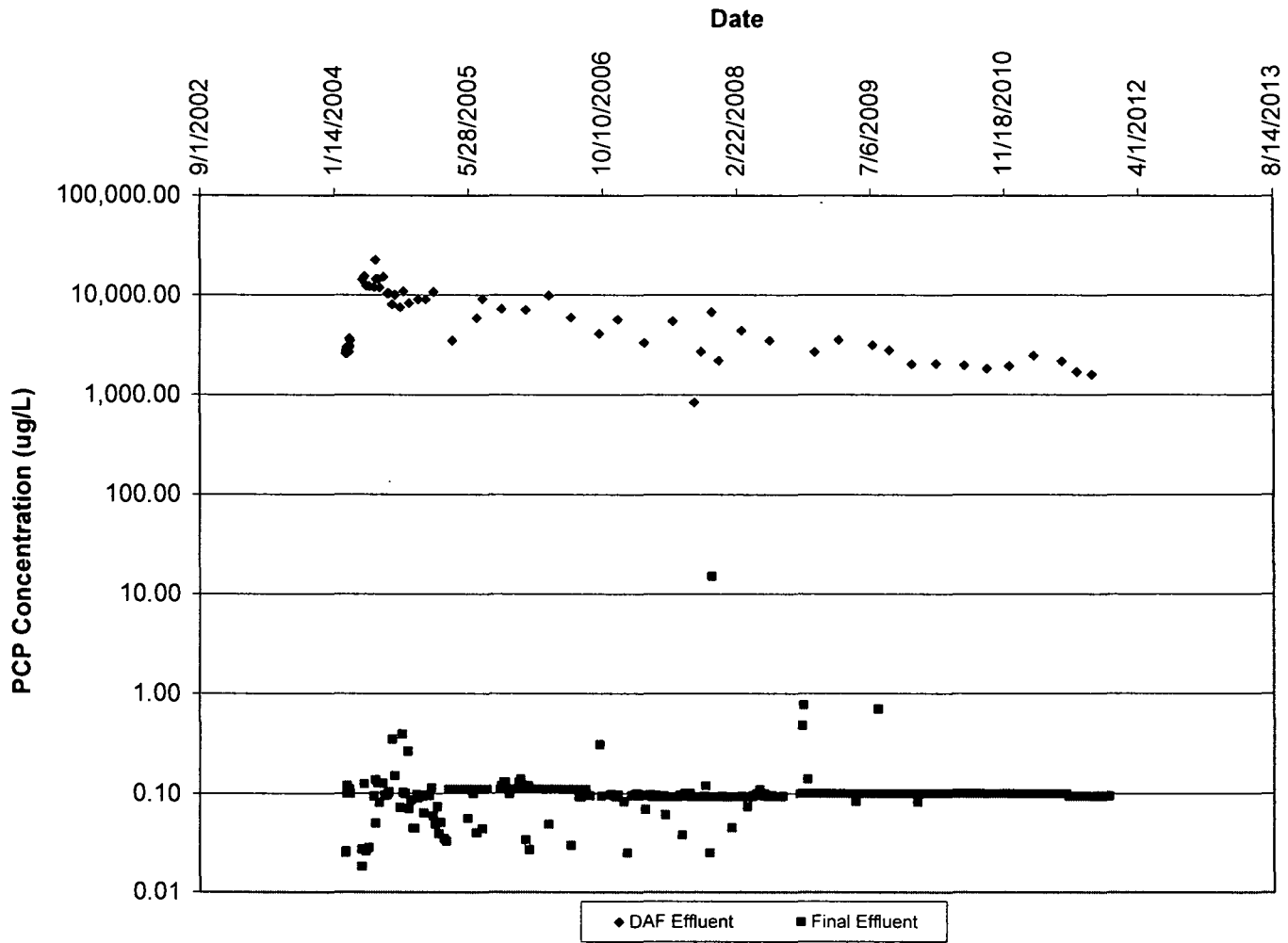
System monitoring samples were submitted to TestAmerica, Inc., of North Canton, Ohio, for analysis. It is a Wisconsin-certified laboratory with the subcontract for analytical services for 2011 to 2014.

10. Project Performance

The groundwater extraction and treatment system operated continuously with only temporary shutdowns for routine maintenance.

Treatment system effluent sampling results met the discharge criteria in WPDES Permit No. WI-0061531-01-0.

Penta Wood PCP Summary



WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
28-Dec-10	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
4-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
11-Jan-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
25-Jan-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
1-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
10-Feb-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
15-Feb-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
1-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
8-Mar-11	2,470	6.5		18.4	0.10U					1.0U	0.10U	5.0U	1.0U	0.10U	0.4U	0.4U	1.0U	10U	19	48	210	652		
15-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
22-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
29-Mar-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
5-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
14-Apr-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		
19-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
26-Apr-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
3-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
10-May-11	-	6.5		-	-					-	0.10U	-	-	-	-	-	-	-	-	-	-	-		
17-May-11	-	6.5		-	0.10U					-	0.10U	-	1.0U	-	-	-	-	-	-	-	-	-		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
24-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
31-May-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
7-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
21-Jun-11	2,170	6.5		17.7	0.10U					--	0.10U	--	1.0U	--	--	--	--	10.1	6.7J	58	846	719		
28-Jun-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
6-Jul-11	--	6.5		--	--					--	0.10U	--	--	--	--	--	--	--	--	--	--	--		
15-Jul-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
20-Jul-11	--	6.5		--	0.07UB					--	0.094U	--	0.2U	--	--	--	--	--	--	--	--	--		
27-Jul-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
11-Aug-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
16-Aug-11	1,700	6.5		21	0.04UB					--	0.094U	--	0.2U	--	--	--	--	0.66J	9.1J	74U	50U	770		
23-Aug-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
31-Aug-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
8-Sep-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
13-Sep-11	--	6.5		--	0.10U					--	0.094U	--	0.2U	--	--	--	--	--	--	--	--	--		
20-Sep-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
27-Sep-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
7-Oct-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
11-Oct-11	1,600	6.5		36	0.10U					--	0.032J	--	0.2U	--	--	--	--	9.1	2.6	71	1,000	870		
18-Oct-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
25-Oct-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		
1-Nov-11	--	6.5		--	--					--	0.094U	--	--	--	--	--	--	--	--	--	--	--		

WPDES SAMPLING SUMMARY

Date	Pentachlorophenol (µg/L) Influent	pH Field	Total Suspended Solids (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Total Organic Carbon (mg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Total Trimethylbenzene (µg/L)	Dioxin (2,3,7,8 TCDD; pg/L; 3.0 pg/L monthly average limit)	Pentachlorophenol (µg/L; 0.1 µg/L monthly average limit)	Phenol (µg/L)	Naphthalene (µg/L; 8.0 µg/L monthly average limit)	Benzene (µg/L; 0.5 µg/L monthly average limit)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylene (µg/L)	Arsenic, Total Recoverable (µg/L); 5.0 µg/L monthly average limit)	Copper, Total Recoverable (µg/L)	Zinc, Total Recoverable (µg/L)	Iron, Total Recoverable (µg/L)	Manganese, Total Recoverable (µg/L)	Acid Extractables	Dioxins and Furans (all congeners)
8-Nov-11	-	6.5		-	0.10U					-	0.095U	-	0.2U	-	-	-	-	-	-	-	-	-	-	-
15-Nov-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
22-Nov-11	-	6.5		-	-					-	0.095U	-	-	-	-	-	-	-	-	-	-	-	-	-
29-Nov-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
6-Dec-11	-	6.5		-	0.10U					-	0.095U	-	0.2U	-	-	-	-	-	-	-	-	-	-	-
13-Dec-11	-	6.5		-	-					-	0.094U	-	-	-	-	-	-	-	-	-	-	-	-	-
20-Dec-11	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-	-	-
27-Dec-11	-	6.5		-	-					-	NR	-	-	-	-	-	-	-	-	-	-	-	-	-

^a NA = Sample analysis was on hold and cancelled based on the results of the quick turnaround time samples.

^b NR = Sample results are not yet available from the laboratory.

^c ND = Compound was not detected in sample.

- = Not sampled.

mg/L = milligrams per liter

µg/L = micrograms per liter

pg/L = picograms per liter

Qualifiers:

UB = Analyte found in the method blank.

J = Estimated value.

R = Result is rejected due to quality control issues.

U = Analyte was not detected at or above the stated limit.

* = Result is suspect. Refer to discussion of WPDES monitoring in Technical Status Report text.

U.S. ENVIRONMENTAL PROTECTION AGENCY
RTP-FINANCIAL MANAGEMENT CENTER
MAIL CODE-D143-02
RESEARCH TRIANGLE PARK, NC 27711

Contract No. EP-S5-06-01
CH2M HILL, INC.
1300 S.W. 5th Ave.
Portland, OR 97201

CURRENT AND CUMULATIVE COSTS, BASE FEE AND PERFORMANCE FEE

Term Form

Penta Wood Products, WI

Work Assignment 132-LRLR-05WE

For the month of DECEMBER, 2011 Period: OPTION

Major Cost Element	----- Hours -----		----- Amount Claimed -----	
	Current	Cumulative	Current	Cumulative
LOE	403.00	4,157.60	11,050.28	121,278.03
Clerical	27.40	132.30	641.59	3,044.90
1. HOURS/DIRECT LABOR	430.40	4,289.90	11,691.87	124,322.93
2. FRINGE BENEFITS			4,713.26	49,351.55
3. OVERHEAD			3,357.73	35,161.86
4. GENERAL AND ADMINISTRATIVE			6,323.38	66,225.29
5. SUBTOTAL LABOR			26,086.24	275,061.63
6. OTHER DIRECT COSTS			8,095.67	82,416.75
7. COMPUTER			0.00	0.00
8. TRAVEL			67.32	7,576.27
9. EQUIPMENT			2,611.84	12,557.06
10. SUBTOTAL			10,774.83	102,550.08
11. TEAM SUBCONTRACTS AND SUBCONTRACT POOL				
SUBCONTRACT POOL			45,783.98	413,245.59
12. SUBTOTAL SUBCONTRACTS			45,783.98	413,245.59
13. TOTAL COSTS			82,645.05	790,857.30
14. BASE FEE			0.00	0.00
15. PERFORMANCE (AWARD) FEE			0.00	0.00
16. FIXED FEE			4,100.79	38,589.22
17. TOTAL VOUCHER LESS PLI			86,745.84	829,446.52
18. POLLUTION LIABILITY INSURANCE			0.00	1,614.59
19. LABORATORY SERVICES			0.00	0.00
20. AMOUNT CLAIMED THIS VOUCHER			86,745.84	831,061.11
21. LESS PRIOR PAYMENTS				660,085.23
22. TOTAL AMOUNT DUE				170,975.88