



Jan 31, 2022

Cassandra Johnson
Office of Community Engagement
Mississippi Department of Environmental Quality
PO Box 2261
Jackson, MS 39225

RE: COMMUNITY ENGAGEMENT PROGRESS REPORT NOVEMBER 2021 THROUGH JANUARY 2022, KUHLMAN ELECTRIC CORPORATION CLEAN UP ACTIONS, CRYSTAL SPRINGS, MISSISSIPPI

Dear Ms. Johnson:

This report provides a summary of community engagement actions for the Kuhlman Electric Corporation (KEC) environmental clean-up in Crystal Springs, Mississippi, as required by the Community Engagement Plan approved by the Mississippi Department of Environmental Quality (MDEQ) on July 17, 2012. This report will cover the period from November 2021 through and including January 2022. Future reports will continue to be provided quarterly.

KEC has continued to be actively engaged with the community, despite COVID-19 limitations. During this quarter, KEC with its consultants Environmental Management Services (EMS) and Caffee, Caffee and Associates (CCA) has updated and notified Crystal Springs residents of remedial activities through one-on-one dialogue and quarterly newsletters.

The following Corrective Action Plan milestone activities were initiated or continued during this reporting period:

- Soil Vapor Extraction System operation, monitoring (ongoing)
- Capacity Plan Implementation –
 - Operation of new City wells CSW-WA9 and CSW-WA10 continued
 - City wells CSW-WA1 and CSW-WA2 remain out of service
 - Completion and Operation of new City of Crystal Springs municipal water supply pipeline
 - Connection and Operation of New City Well CSW-WA11
 - Evaluation of potential additional supply well needs
- Groundwater monitoring continued
- Installation and initial sampling of additional monitoring well locations

Progress in implementing the Community Engagement Plan as it relates to these specific milestones, above, is detailed in Table 1 (attached). There were no required activities that were not completed.

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Community relations are conducted on an as-needed basis, designed to meet the requests and needs of the public. The current status is as follows:

Points of Contact

The local contact is Craig Flagge, Health Safety Environment Manager for the Hitachi Energy facility in Crystal Springs, MS.

Fact Sheets

Fact sheets are available on an ongoing basis, as requested from the public. Fact sheets available are:

- Soil Vapor Extraction
- Air Sparging
- Monitored Natural Attenuation
- Groundwater Corrective Action Plan

Media Releases and Briefings

There were no media releases or briefings.

Public Notices

There were no Public Notices required or completed.

Information Repository

Final reports are submitted to MDEQ for storage in the information repository, maintained by MDEQ online at <https://www.deq.state.ms.us>. Final reports are also maintained at the Crystal Springs Public Library Information Desk, 200 South Jackson Street, Crystal Springs, MS. Newsletters will be provided for public access through the Crystal Springs City Hall, as well. No submittals were made to the Crystal Springs Library or MDEQ in the reporting period.

Local Briefings and Telephone Briefings

CCA, on behalf of KEC, continues to hold individual meetings as requested, as well as telephone conversations each quarter. CCA has maintained communication and a presence in the community each month to reassure residents of KEC's community engagement efforts.

Representatives routinely hold one-on-one talks with businesses and churches in Crystal Springs while hand delivering copies of the KEC newsletter (see Direct Mail below) during normal quarters. These actions were reduced during this quarter due to COVID-19 concerns.

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Public Meeting, Open Houses and Small Group Meetings

CCA has continually offered updates during the reporting period, as requested, not including those who received newsletters (see Direct Mail below).

Direct Mail

KEC continues to distribute copies of the quarterly newsletter, the Kuhlman Cleanup News. The most recent version was issued in January 2022. Over 1600 newsletters will be made available at City Hall and any open businesses. Businesses and churches receive copies of the newsletter to ensure a broad distribution and that interested individuals have multiple locations to obtain a copy. The October issue of the newsletter provided updates on the soil vapor extraction system, water quality monitoring, and municipal supply augmentation progress. A copy is attached.

Comment Period and Comment Responses

MDEQ has not notified KEC of any other public notice/comment periods required at this time.

Upcoming Activities

KEC will provide the next quarterly update in April 2022. Please do not hesitate to contact Craig with any questions you might have at 601-892-6567.

Sincerely,


Craig Flagge (Jan 28, 2022 10:57 CST)

Craig Flagge
HSE Manager, Hitachi Energy Crystal Springs, MS

KUHLMAN ELECTRIC CORPORATION
 101 KUHLMAN DRIVE, CRYSTAL SPRINGS, MS
 TABLE 1 - CORRECTIVE ACTION PLAN MILESTONE/COMMUNITY ENGAGEMENT TASK SUMMARY

CAP Milestone	Anticipated Date	Planned Community Engagement Activities	Task Initiated and/or Completed	Task Planned for Following Quarter	Problems and Delays
Capacity Plan for Potable Water Supply, City of Crystal Springs (submitted to MDEQ, and MDOH June 8, 2012).	Summer 2012	<ul style="list-style-type: none"> - Concurrently submit to the mayor of the City of Crystal Springs for review and comment. - Publish in quarterly newsletter to interested parties. - Update civic leaders. - Approved document will be placed in public repository. 	<ul style="list-style-type: none"> - Capacity Plan for Potable Water Supply approved by MDEQ in December 2012. - Quarterly Newsletter distributed to Crystal Spring’s residents and businesses in January 2013. - Mayor and Civic leaders were updated through the Newsletter. - Documents placed in the public repository. Also available upon request. 	- None at this time. This milestone is complete.	- None at this time.
Capacity Plan Implementation Interim Treatment System Final Design	Summer – Fall 2012	<ul style="list-style-type: none"> - Will be submitted to MDEQ, MSDH, and engineers selected by the City of Crystal Springs. - Approved design will be placed in the public repository at the Crystal Springs library and on the MDEQ website. - Public notice upon approval. - Update civic leaders. - Publish in quarterly newsletter to interested parties. 	<ul style="list-style-type: none"> - The bench study and final design was successfully completed. - The MDSH issued a letter of concurrence with the proposed interim treatment system design in November 2012. - The final design was approved by MDEQ in December 2012. - Public notice and updates to civic leaders were provided via quarterly newsletter in January 2013. 	- None at this time. Design is complete.	- None at this time.

KUHLMAN ELECTRIC CORPORATION

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<p>Capacity Plan Implementation</p> <p>Interim Treatment System Construction Complete</p>	<p>Fall 2013</p>	<ul style="list-style-type: none"> - Public notice - Update civic leaders. - Publish in quarterly newsletter to interested parties - Attend regularly scheduled City meeting on an annual basis and provide update. 	<ul style="list-style-type: none"> - Treatment system site preparation and construction complete. - Public notice provided in The Meteor article published Nov 6, 2013. - Update published in quarterly newsletters October 2013. - Capacity Plan for Potable Water Supply Status Report submitted to MDEQ and City in August 2013. - Tests conducted in Sept/Oct 2013 confirmed the system will perform as designed. - Operations Demonstration conducted for City, MDOH, and MDEQ Oct 30, 2013. - Ready to be activated if treatment of the City wells becomes necessary. - Emergency Generator added July 2015. 	<ul style="list-style-type: none"> - System will remain on standby and water quality will continue to be monitored on a regular basis. - If operation is required, establish City update schedule. 	<ul style="list-style-type: none"> - None at this time.
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Capacity Plan Implementation Long term volume replacement, as needed	Ongoing	<ul style="list-style-type: none"> - Progress will be included in Groundwater monitoring reports submitted to MDEQ. - Update civic leaders. - Publish in quarterly newsletter to interested parties. - Attend regularly scheduled City meeting on an annual basis and provide update. 	<ul style="list-style-type: none"> - Updates via newsletters, Capacity Plan for Potable Water Supply Status Report (August 2013), verbal reports. - Collaboration with City. - Supply Wells CSW-WA9 and CSW-WA10 complete January 2016. - CSW-WA9, CSW-WA10 approved July 2016. - CSW-WA9, CSW-WA10 operating June 2017. - CSW-WA1 and CSW-WA2 taken out of service July 2017. - Water Main easements acquired, vendor selected. - City approval to purchase land for third supply well granted March 2020. - Water Main Installation started July 2020, completed December 2021. - RR crossing licenses acquired 3Q 2021. - CSW-WA11 operating January 2022. 	<ul style="list-style-type: none"> - Testing Capacity/yield of operational City supply wells under new water main conditions. - Design/site additional Supply Well, if necessary. - Continued collaboration with City. 	<ul style="list-style-type: none"> - Additional well and access needed; this has delayed this task.

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Expected results of Soil Vapor Extraction (SVE) Pilot Test	Fall 2012	<ul style="list-style-type: none"> - Updates with individuals, as requested. - Results will be included in Final Design submitted to MDEQ. Once approved, MDEQ will place the design in a public repository at the Crystal Springs library and on the MDEQ website. - Publish in quarterly newsletter to interested parties. 	<ul style="list-style-type: none"> - The initial test of the proposed Soil Vapor Extraction (SVE) procedure was successfully completed in May 2012. - The results were be included in the final design submitted to MDEQ. - Updates on this milestone were included in the October 2012 Quarterly Newsletter. - Pilot Test Report and SVE Conceptual Design submitted to MDEQ in February 2013; approved in July 2013. 	<ul style="list-style-type: none"> - None at this time. This milestone is complete. 	<ul style="list-style-type: none"> - None at this time.

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Final design of SVE System	Fall 2013	<ul style="list-style-type: none"> - A final design will be submitted to MDEQ. Once approved, MDEQ will place the design in a public repository at the Crystal Springs library and on the MDEQ website. - Publish in quarterly newsletter to interested parties. - Update civic leaders. 	<ul style="list-style-type: none"> - Detailed design work has been completed for design, procurement, and installation of the SVE system. - Conceptual Design was submitted to MDEQ in February 2013, revised May 2013, and approved July 2013. - Soil Vapor Extraction Final Design and Quality Assurance Project Plan submitted to MDEQ September 2013, approved by MDEQ October 2013. - Update on this milestone was included in the July 2013, October 2013, and January 2014 Newsletters. 	- None. This milestone is complete.	- None.

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Installation of SVE System	Winter 2013-2014	<ul style="list-style-type: none"> - Construction report will be submitted to MDEQ. - Approved report will be placed in public repository at Crystal Spring's library and on MDEQ website. - Publish in quarterly newsletter to interested parties. - Attend regularly scheduled City meeting on an annual basis and provide update. 	<ul style="list-style-type: none"> - Extraction well installed as part of the SVE pilot test in 2012. - Soil Vapor Extraction Final Design and Quality Assurance Project Plan approved by MDEQ October 2013. - Installation of the full scale SVE system was completed December 2013 - April 2014. Optimization and start of operation occurred in May 2014. 	- None at this time. This milestone is complete.	- None at this time.

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Monitored Natural Attenuation (MNA)/ Groundwater Monitoring	Ongoing Semi-Annually	<ul style="list-style-type: none"> - Groundwater Monitoring Reports will be sent to the MDEQ following each sampling event. - Final Monitoring Reports will be placed in a public repository at the Crystal Springs Library and the MDEQ website. - Updates with individuals, small groups as requested. - Publish in quarterly newsletter to interested parties. - Attend regularly scheduled City meeting on an annual basis and provide update. 	<ul style="list-style-type: none"> - Semi-Annual Groundwater Assessment Report submitted to MDEQ. - Two additional monitoring wells installed December 2015. - Notice of upcoming reports/sampling included in quarterly newsletters. - Documents submitted to MDEQ for placement in the public repository. Also available upon request. - MDEQ approval of additional monitoring well locations. - Installation of additional 3 monitoring wells along the western plume edge. 	<ul style="list-style-type: none"> - KEC will submit Semi-Annual Groundwater Assessment Report 	<ul style="list-style-type: none"> - City meeting schedule not established. City satisfied with verbal updates and newsletters to date.

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Ongoing SVE operations	Ongoing Quarterly-to Semi-Annually	<ul style="list-style-type: none"> - KEC will submit a summary of the active SVE operations within the Ground Water Assessment Reports. - Publish in quarterly newsletter to interested parties. - Attend regularly scheduled City meeting on an annual basis and provide updates. 	<ul style="list-style-type: none"> - Soil Vapor Extraction System Semi-Annual Report issued September 2015. - Monitoring, operation and maintenance of SVE is ongoing. - Updates are included in quarterly newsletters. - Performance assessment soil sampling program completed 4Q 2016. Report submitted 1Q2017. 	<ul style="list-style-type: none"> - Operation and monitoring of full scale system. 	<ul style="list-style-type: none"> - None at this time. Attendance at City meetings not requested.
Air sparge (AS) vs. alternative remedial method evaluation – KEC will evaluate the effectiveness of the SVE system and either proceed with the installation of Air Sparging or an alternative plume treatment scenario.	Underway	<ul style="list-style-type: none"> - Recommendations will be made available to MDEQ in written format. Any changes to the CAP approved by MDEQ will be posted to the public document repository. - Publish in quarterly newsletter to interested parties. - Attend regularly scheduled City meeting on an annual basis and provide updates. 	<ul style="list-style-type: none"> - Timing for this milestone is pending monitoring results from operation of the SVE system. To date, the system continues to remove contamination from beneath the building slab. - Bench scale study for Ozone complete. 	<ul style="list-style-type: none"> - Continued evaluation of SVE system performance. - Ozone Bench scale data evaluation ongoing. 	<ul style="list-style-type: none"> - SVE System start up delayed until 2014; performance evaluation ongoing. - Ozone potential evaluation delayed by COVID-19 complications.

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Contingencies/In Situ Treatment – Groundwater trends will be reexamined and KEC will determine if the treatment technologies are meeting the CAP objectives.	To Be Determined	<ul style="list-style-type: none"> - Will be summarized on Groundwater Monitoring reports. - Final Monitoring Reports will be placed in a public repository at the Crystal Springs Library and the MDEQ website. - Updates with individuals, small groups as requested. - Publish in quarterly newsletter to interested parties. - Attend regularly scheduled City meeting on an annual basis and provide updates. 	<ul style="list-style-type: none"> - Groundwater trends indicate that SVE is making progress toward CAP objectives. 	<ul style="list-style-type: none"> - Data evaluation will continue in 2022. 	<ul style="list-style-type: none"> - Delayed due to delayed implementation and ongoing effectiveness of SVE system.
No Further Remedial Action Request (Monitoring Only)	To Be Determined	<ul style="list-style-type: none"> - Formal request will be submitted to MDEQ when data supports it. - Public notice. - Publish in quarterly newsletter to interested parties. - Attend regularly scheduled City meeting on an annual basis and provide updates. 	<ul style="list-style-type: none"> - This milestone will be completed pending the results of planned remedial actions. 	<ul style="list-style-type: none"> - None at this time. 	<ul style="list-style-type: none"> - None at this time.

KUHLMAN CLEANUP NEWS

JANUARY 2022

Newsletter on Kuhlman Environmental Cleanup in Crystal Springs

CURRENT PROGRESS AND UPCOMING PROJECTS

Soil Vapor Extraction Progress

The Soil Vapor Extraction system continues to operate efficiently beneath the plant. Recent air quality monitoring inside the facility was performed. The results were consistent with past sampling events and confirm that indoor air quality meets applicable standards.

QUESTIONS OR COMMENTS?

*If you have any questions
or concerns, we want to
hear them!*

*Please submit all
questions or comments to
Brenda Bell Caffee,
Caffee, Caffee and
Associates
at 601-336-7212.*

City Water Supply & Well

The new city water pipeline has been installed and is connected to the existing city water system. No further construction related to the pipeline is anticipated. The pipeline is now supplying water from the most recent new public water supply well installed by Kuhlman, CSW-WA11, to the city.

GROUNDWATER MONITORING AND SAMPLING

We continue to sample monitoring wells installed in the groundwater plume, as well as City-owned water supply wells on a routine basis. Results are submitted to MDEQ and the City of Crystal Springs.

FACT SHEETS AVAILABLE

We understand that the terms sometimes used in the newsletters and reports can be a little confusing. For this reason, fact sheets are always available, upon request, to describe the processes and procedures being used. Any of these fact sheets can be requested by contacting Caffee, Caffee and Associates.

UPCOMING EVENTS

- Continued operation of the full-scale Soil Vapor Extraction system
- Continued monitoring of existing public supply wells

PUBLIC DOCUMENTS REPOSITORY

Select documents have been made available at your local Crystal Springs Library for review or you can visit <http://www.mdeq.state.ms.us/>