Autumnwood ESH Consultants, LLC
6539 Autumnwood Court
Mount Pleasant, Wisconsin 53403
Phone: 262.237.1130

15 August 2017

Mr. John Nordine
U.S. EPA Region 5
RCRA Enforcement and Compliance Assurance Branch (LU-9J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: Central Wire, Union, Illinois RCRA CMI Monthly Progress Report for June 2017, Revision 1
EPA ID: ILD005178975

Dear Mr. Nordine:

Enclosed please find the RCRA CMI Monthly Progress Report for the Central Wire facility located in Union, Illinois for June 2017.

This report includes the eDMR for the groundwater pump & treat facility and the laboratory analytical report, which includes the effluent data used in the eDMR.

If you have any comments or questions regarding the progress of this project, please contact me at (262) 237-1130.

Sincerely,

Autumnwood ESH Consultants, LLC

John W. Thorsen

John W. Thorsen, P.E.

JWT:jt

encl

cc:	Joyce Munie	IEPA
	Robert Kay	USGS
	Gerald W. Ruopp	Central Wire
	Robert Johnson	Central Wire

MONTHLY PROGRESS REPORT
Central Wire Union, Illinois Site
June 2017

1 **Progress Made This Reporting Period** – In this reporting period Central Wire Inc. (CWI) continued the operation and maintenance of the groundwater extraction and treatment (P&T) system. CWI treated an average of 528,000 gallons per day (GPD) with a maximum daily flow of 538,000 GPD. Table 1, attached, lists the monthly P&T volumes from January 2015 through June 2017.

The monthly NPDES sample met effluent limitations for pH, 1,1,1-Trichloroethane (TCA), Trichloroethene (TCE) and Tetrachloroethene (PCE). The electronic Discharge Monitoring Report (eDMR) for the month is attached to this report.

The laboratory analytical report for the pump and treat effluent sample, the quarterly extraction well samples and the Ex. 6 Personal Privacy (PP) samples were collected on June 14, 2017 and arrived at Test America Laboratory on June 15, 2017 at 0.9° C.

Over the month Central Wire personnel read the hour meter on the well pump motors for the Ex. 6 Personal Privacy (PP) Table 2 provides the results of this which are used in Table 3, attached.

Table 2
Summary of 2017 Irrigation Pumping Hours per Week at Ex. 6 Personal Privacy (PP)
May 30 through June 30, 2017

Date of Hour Meter Reading	Ex. 6 Personal Privacy (PP)				Hours of Irrigation Well Pumping/Week
	Hour Meter Reading	Hours Pumped	Hour Meter Reading	Hours Pumped	
5/30/2017	6550	0	4184	0	0
6/5/2017	6566	16	4213	29	45
6/122017	6589	23	4257	44	67
6/19/2017	6601	12	4273	16	28
6/26/2017	6609	8	4292	19	27
6/30/2017	6613	4	4303	11	15
Totals		**63**		**119**	**182**

On June 30, 2017, Central Wire personnel downloaded the data logger tracking the depth of the groundwater in monitoring well DGW-2I in the field from May 31 through June 30, 2017 to a laptop computer and reinserted the same data logger into the well to collect the July data.

The groundwater level monitoring data from downgradient monitoring well DGW-2I for the June 2017 groundwater levels and the precipitation and irrigation well pumping over the month have been graphed / plotted and are attached to this report as Table 3, attached. The depth to water measured from the top of the well casing was 3.79 feet in

DGW-2I on June 30, 2017. Therefore, there nominally was 26.55 feet of water above the data logger (30.34 ft. [depth of data logger] – 3.79 ft. [water level below Inside lip of protective cover]. [Note DGW-2I was sampled on June 22. The logger was removed from the well during two logger recording cycles (see lines 2084 and 2085 of Table 3). To keep the graph of groundwater elevation smooth, the change in elevation from line 2083 to 2086 in Table 3 were averaged. Table 3.1 shows the data from lines 2084 and 2085 set at 0 when the logger was out of service for sampling. This then stretched the y axis form 0 to 1,000 which does not provide the clarity of changes in groundwater elevation shown in Table 3].

The groundwater elevation during this period reached its highest level on June 30 at 820.506 feet above mean sea level. The groundwater elevation reached its low on June 14 at 818.151 feet above mean sea level for a total variation over the month of 2.355 feet. The highest groundwater elevation on May 31 was 818.994 and the highest groundwater elevation on June 30 was 820.506.

2 Summary of Validated Data and Results

Pump & Treat System NPDES Sampling

The monthly effluent sampling took place on June 14, 2017. The permit limitations and analytical results are shown in Table 4, below. There were no effluent limitation exceedances.

Table 4
Central Wire Union Illinois Pump & Treat Discharge Analytical Results

Parameter	Effluent Limitation (Daily Maximum) µg/L	Analytical Results, µg/L
1,1,1-Trichloroethane	20	< 0.38
Tetrachloroethene	20	< 0.37
Trichloroethene	20	0.63

Central Wire collected a sample at the **Ex. 6 Personal Privacy (PP)** and the Ex. 6 Personal Privacy (PP) which is still being used to supply the toilet in the office on June 14, 2017. There were no detections. These results are in the attached analytical report.

June is the end of the second quarter of 2017. As a result, samples were collected in the two extraction wells. The data is posted on Table 5, attached. Extraction Well No. 1 (EW-1), the original extraction well has had between 6.7 and 7.7 µg/L of TCE since 2016. PCE has been generally < 1.0 µg/L since the first quarter of 2016, Dichloroethene (DCE) has be between 6.0 and 9.4 µg/L since 2016 and cis-1,2-DCE has been at 71 to 94 µg/L since 2016. In contrast, EW-2 has had consistently higher values of TCE and PCE and lower values of DCE and cis-1,2-DCE. TCE have ranged from 10 to 15 µg/L

and PCE has ranged from 22 to 32 μg/L since 2016. DCE values have all been below 2 μg/L since 2016 and cis-1,2-DCE values have been well below the MCL of 70 μg/L.

This report also has environmental analytical results for the North Pond and South Pond. These ponds are Illinois EPA-regulated seepage ponds for Central Wire's rinse waters from the annealing process, non-contact cooling water, boiler blowdown and storm water.

Semiannual RCRA Monitoring and Residential Well Sampling Event

The RCRA Monitoring and Residential wells samples were collected on June 21 and 22 and were received at the lab on June 23, 2017. The results were reported too early to be included in the original June Monthly Progress Report and are attached to this revision.

3 **Upcoming Events/Activities Planned** – Central Wire will continue to operate the existing remediation systems. Effluent samples will be collected, analyzed and reported as required in our NPDES permit.

Central Wire is preparing letters to IEPA and **Ex. 6 Personal Privacy (PP)** Ex. 6 Personal Privacy (PP) to determine the viability of the pump and discharge option.

Environmental samples will be collected from RCRA monitoring wells and selected residential wells on a six month cycle, usually in June and December.

Samples will continue to be collected at the **Ex. 6 Personal Privacy (PP)** every month when the irrigation pumps are operating, usually between April and October of each year. This is being done at the request of U.S. EPA. Pumping began in May in 2017.

4 **Anticipated Problem Areas and Recommended Solutions** – None.

5 **Key Personnel Changes** – None.

6 **Target and Actual Completion Dates** – This project has not deviated from the project schedule.