

RJN Environmental Services, LLC

Surface Water Studies
Groundwater Studies
Site Investigations

RECEIVED
01/18/11

January 18, 2011

Mr. Michael Schmoller
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

RE: Annual Report
Madison-Kipp Corporation
BRRTS Number 02-13-001569

Dear Mr. Schmoller:

This letter provides a summary of the groundwater and soil vapor monitoring for 2010. Groundwater sampling was conducted in March, July, October and December.

Fourteen monitoring wells are present at the MKC site, as shown on Figure 1. Pursuant to our 2008 annual report, the wells are sampled according to the schedule summarized in Table 1.

GROUNDWATER FLOW

At each quarterly sampling event, groundwater elevations are measured from all wells. Groundwater elevations dating back to 2004 are summarized in Table 2. Instrument failure prevented the ability to measure groundwater levels in March, and several wellheads were filled with ice in December. Figures 2 through 4 are maps of the water table for the July, October and December sampling events of 2010. The July water level differs from October and December in that a high water level in well MW-1 is forcing a southerly flow in the northern portion of the site, whereas the October and December maps show a northeasterly flow direction.

Figures 5, 6 and 7 show groundwater levels at an intermediate depth. These flows are all in an east-southeasterly direction, slightly different from the flow at the water table.

Finally, Figures 8 and 9 show groundwater levels at depth in July and October (a third well could not be accessed in December). These figures show flow at depth to be northerly. This is consistent with the historical deep water levels.

Figures 10, 11 and 12 present hydrographs for the shallow, intermediate and deep wells, respectively. As the plots show, all wells at all levels have comparable hydrographs.

Shallow well groundwater elevations ranged from a low of about 842 feet (mean sea level) in December 2005 to a high of about 854 feet in June 2008. Water levels in intermediate-depth well ranged from about 842 feet to approximately 854 feet, and water levels in deep wells ranged from about 842 feet to approximately 853 feet, again with the low level in December 2005 and the highest in June 2008. These correlating conditions are typical of water levels in unconfined aquifers.

GROUNDWATER MONITORING

Groundwater analytical results for the 14 monitoring wells are provided in Tables 3 through 16; laboratory data sheets are included in Appendix A.

Impacts originating on the MKC property are chlorinated volatile organic compounds, associated with a former above ground tank location, and vapor degreaser vents. The highest concentrations occur in the MW-3 and MW-5 well nests. The MW-3 nest is adjacent to a former vapor degreaser vent hood, and is in a location that is now paved, but had a gravel surface when the degreaser was in use. The MW-3 nest is near the location of a former PCE storage tank and a storm sewer.

Figures 13 and 14 are plots of PCE concentrations in the MW-3 and MW-5 well nests, respectively. The concentrations at shallow and intermediate depths at MW-3 have remained relatively constant; however, the deep well (MW-3D2) has been exhibiting increasing concentrations since approximately 2007.

Well MW-5D2 is near the base of the contaminant plum, and has had low, relatively stable concentrations over the past several years. However, concentrations at shallower depths (MW-5S and MW-5D) have had decreasing concentrations. This is also the location in which the ozone remediation system has been operating, which is likely contributing to the decline in the concentration of PCE. The system was down for several weeks prior to the October 2010 sampling, likely accounting for higher concentrations at that time.

Petroleum compounds continue to be present in water in the MW-6 well nest, located at the southeastern corner of the MKC site. No on-site source is known for these compounds; however, a BP station, located one block west of this location, is a known source for petroleum contaminants.

SUMMARY AND RECOMMENDATIONS

Groundwater flow conditions measured in 2009 were consistent with flow conditions measured over the past 5 years. Flow at the water table is in a south-southeasterly direction, flows at intermediate depths are in a southeasterly direction, and flow at depth is northerly. However, some seasonal fluctuations in flow conditions do occur,



and the ozone injection system appears to cause anomalous groundwater elevation increases at MW-5S.

Groundwater quality has remained fairly constant over the past year, with the exception of wells MW-5S and MW-5D, in which concentrations have been declining. As with soil vapor concentrations, the declining concentrations also seem to be coincident in time with the soil remediation, and likely assisted by the ozone system.

Based on the results of the 2010 testing, we recommend that groundwater monitoring be maintained at the same schedule shown in Table 1. Soil vapor sampling was temporarily suspended due to negotiations with respect to in-house sampling. However, soil vapor monitoring will resume in 2011, with the deep probe at each of the three homes, as well as the four vapor probes on the MKC property being sampled in March and September.

Finally, icing of flush-mount wellheads has occurred in winter months for several years. RJN will work with a driller to see if the wellheads can be re-sealed, as above-ground wellheads are not feasible at these locations.

If you have any questions about the work done in 2009, or the recommendations made, please call.

Sincerely,
RJN ENVIRONMENTAL SERVICES, LLC



Robert J. Nauta, P.G.
Hydrogeologist

cc: Mark Meunier – Madison Kipp Corporation

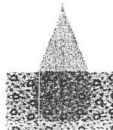


TABLE 1
GROUNDWATER SAMPLING SCHEDULE
MADISON-KIPP CORPORATION

WELL	MARCH	JUNE	SEPTEMBER	DECEMBER
MW-1	■			
MW-2S	■			
MW-2D	■		■	
MW-3S	■			
MW-3D	■		■	
MW-3D2	■	■	■	■
MW-4S	■			
MW-4D	■			
MW-4D2	■			
MW-5S	■		■	
MW-5D	■			
MW-5D2	■			
MW-6S	■	■	■	■
MW-6D	■	■	■	■

Note: The housing of wells MW-1, MW-3S, MW-3D and MW-3D2 were frozen in December.