

Mandan Remediation Trust – Update May 3, 2016

- May 3, 2016 was 281st meeting of the MRT. Meetings now held first Tuesday of Month; originally every Tuesday.
- Remediation Trust Balance March 31, 2016 approximately \$6.5M.
- Annual Operating Costs = \$250-\$300k/year – decreasing as parts of system are decommissioned.
- Installed a venting system, at minimal cost (less than \$3,000) for the Law Enforcement Center as there were a few complaints of some odors in the maintenance room area. The venting system has remedied that.
- Through February 2016 the following volumes of contaminants have been removed:
 - Hydrocarbon and VOC vapors 237,387 lbs.
 - Methane 125,085 lbs.
 - Free phase (liquid) fuel 547, 643 lbs.
 - In-place bioremediation reduction 2,953,504 lbs.
- Decommissioning wells – generally monitored for a year or longer to see if any product returns. Would like to get through a couple seasons of possible wet and dry weather cycles prior to recommendation for final closure.
- Area is recommended for decommissioning when all wells in that area (connected to a common manifold) are less than 1/10 of a foot of measurable product in the well for at least one year. Then the manifold and connected wells can be plugged and the manifold removed. (manifold such as the one on the south east side of City Hall)
- MRT has allowed movement of wells or has decommissioned wells in the areas where redevelopment has occurred, such as Library Square I & II, Collins & Main, Mandan Place, American Bank Center (35 remediation wells previously closed).
- Recommending summer 2016 decommissioning of all wells in Remote Manifold areas RM 1-2, RM 1-3, RM 1-4, RM 2-1, RM 2-2, RM 2-3, and RM 2-4 (70 remediation wells). See pink-shaded areas on Figure 3.
- Note: Many more individual wells meet criteria for closure, but will be kept in place until entire manifold area can be closed. Only the recovery wells shown in bright green on Figures 2 and 3 are currently needed for active remediation.

Figure 1. Free Product Thickness – September 2006

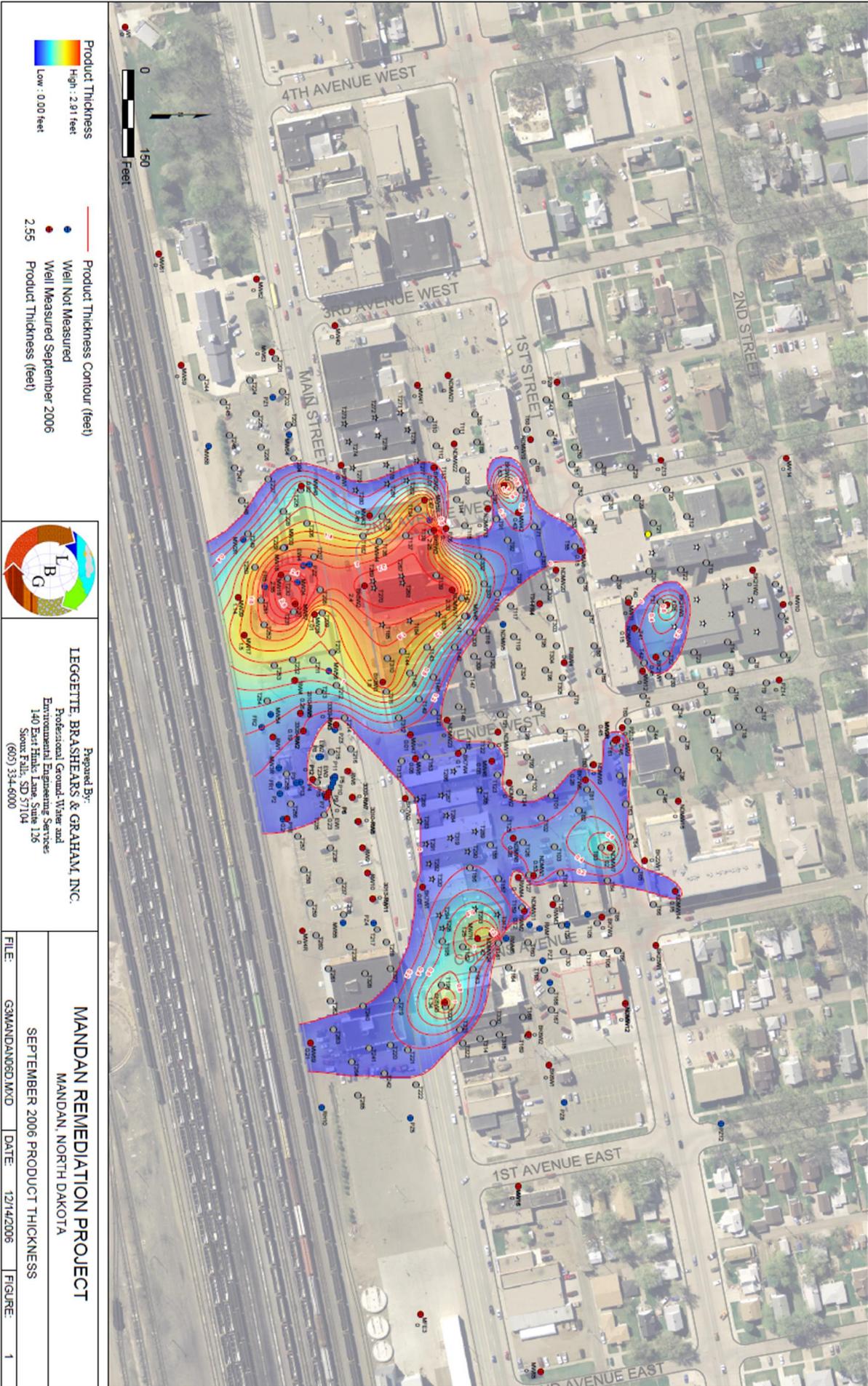
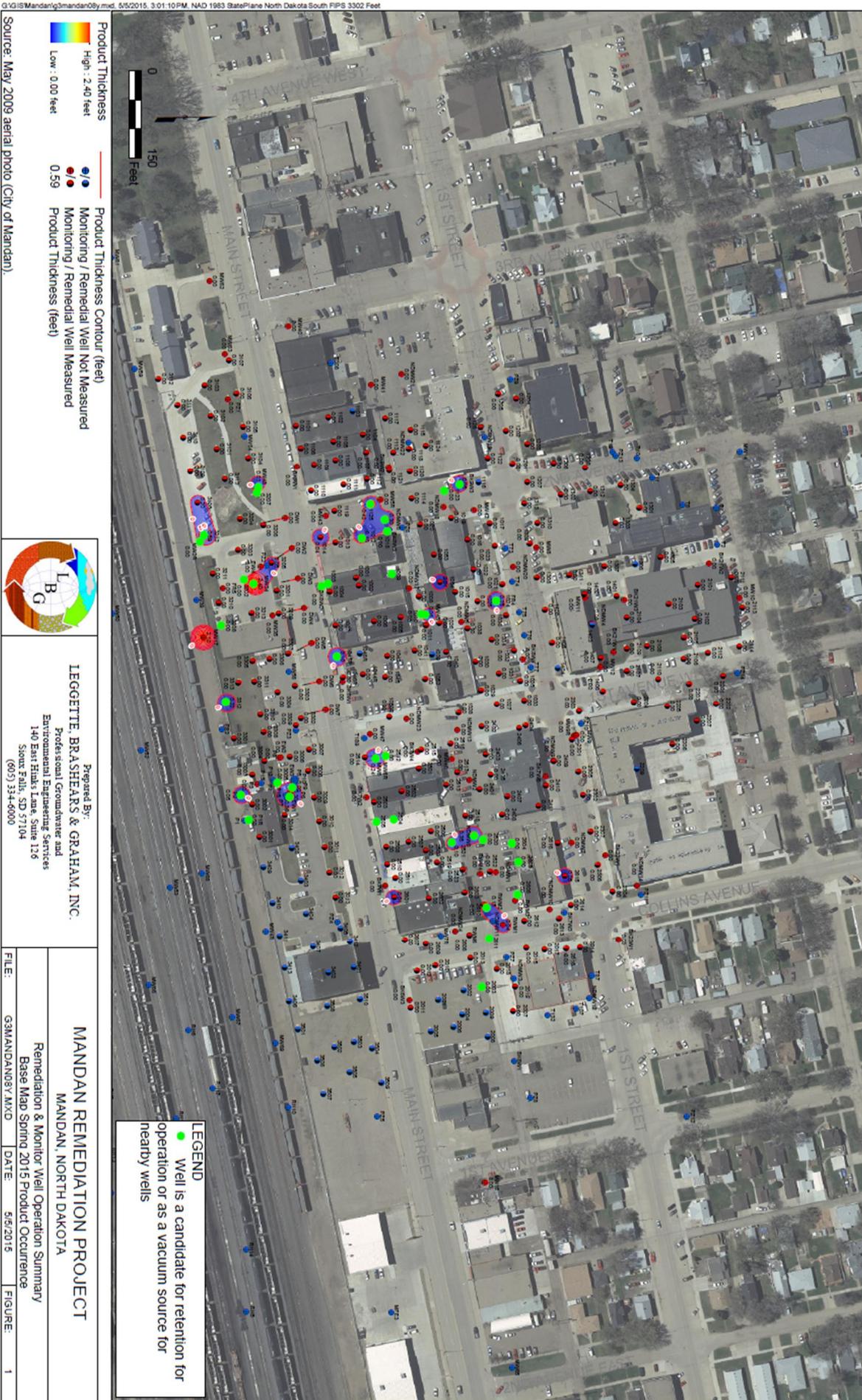


Figure 2. Free Product Thickness – May 2015



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Source: May 2009 aerial photo (City of Mandan)

Figure 3. Mandan Remediation System – Operating Status

