

1.0 INTRODUCTION

1.1 PURPOSE

Aggregate Industries (AI) currently conducts sand and gravel mining activities at their Chelsea Plant site, located in Jackson County, Michigan. The site location is shown on Figure 1. The Chelsea Plant site currently occupies approximately 322.5 acres. All sand and gravel mining activities at the Chelsea Plant are conducted in accordance with AI's existing Special Use Permit, the Michigan Department of Environmental Quality (MDEQ) Part 301 Inland Lakes and Stream Permit No. 12-38-0010-P, the MDEQ Air Quality District General Permit to Install, and the Waterloo Township-reviewed mine reclamation plans.

AI is proposing to conduct additional sand and gravel mining at two land parcels that are immediately adjacent to the existing Chelsea Plant (proposed expansion parcels). The location of the proposed expansion parcels are illustrated on Figure 2 and the Certificate of Survey is presented in Appendix 1. The southwest proposed expansion parcel occupies 28.67 acres, and the northeast proposed expansion parcel occupies 21.56 acres. The total acreage of the proposed expansion parcels is 50.23 acres. The two land parcels are owned by the State of Michigan and will be leased from the MDNR. As payment, the State of Michigan will receive a mineral royalty for the sand and gravel removed and sold throughout the duration of the mining operations. The MDNR has recommended approval of the proposed land lease and mining plan; however, approval for the proposed additional sand and gravel mining requires the issuance of a Special Use Permit by the Waterloo Township Zoning Board. This hydrogeological report addendum is prepared by Fishbeck, Thompson, Carr & Huber, Inc. (FTC&H) to describe the proposed operations and to provide information related to the submittal of the Special Use Permit Application for the proposed sand and gravel mining activities.

1.2 BACKGROUND

AI has previously conducted numerous hydrogeological investigations related to the sand and gravel mining operations at the site. These investigations have included the following:

- *Hydrogeologic Investigation Report to Aggregate Industries, Waterloo Township, Michigan*, dated September 25, 2002 (prepared by ASTI).
- *Supplemental Hydrogeological Investigation, Aggregate Industries – Chelsea Plant, in Relation to Pond Lily Lake and Other Waters, Waterloo Township, Jackson County, Michigan*, dated December 16, 2004 (prepared by ASTI).

- *Hydrogeological Evaluation Inland Lake Development Aggregate Industries Chelsea Plant Waterloo Township, Michigan*, dated June 2006 (prepared by FTC&H).
- *General Hydrogeological Review for a Planned Sand and Gravel Extraction, Waterloo Township Jackson County, Michigan*, dated June 2008 (prepared by FTC&H).

The previous investigations at the site have characterized the site geologic and groundwater conditions and have fulfilled all requirements for issuance of the applicable MDEQ permits and plans. The primary findings of these previous investigations will be discussed briefly in the following sections. For documentation and ease of reference, the most recent FTC&H-prepared investigation reports (2006 and 2008) are provided in Appendices 2 and 3, respectively. The reader is referred to Appendices 2 and 3 for the detailed hydrogeological data analyses.