

PHOTOGRAPHIC LOG



Photograph 1: 6/12/14: View looking north/down at brick and ceramic-like fragments located at the public beach in the Hubbell Beach and Slag Dump Area. Photograph taken by A. Keranen.



Photograph 2: 6/12/14: View looking down at a soil sample collected from a terrestrial location at the public beach in the Hubbell Beach and Slag Dump Area. Photograph taken by A. Keranen.

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Photograph 3: 6/14/14: View looking south at sample location CHLL-SB18 located at the Lake Linden Village Park in the Lake Linden Recreation Area. Photograph taken by A. Keranen.



Photograph 4: 6/14/14: View looking south at sample locations CHLL-SB21 and CHLL-SB22 located in the western portion of the Lake Linden Village Marina property in the Lake Linden Recreation Area. Photograph taken by A. Keranen.

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Photograph 5: 6/16/14: View looking west at the advancement of a soil boring at sampling location CHLL-SB06 in the Lake Linden Recreation Area. Photograph taken by D. Liebau.



Photograph 6: 6/16/14: View looking at the soil core extracted from sample location CHLL-SB06 in the Lake Linden Recreation Area. Photograph taken by D. Liebau.



Photograph 7: 6/16/14: View looking east/northeast at the Lake Linden Sands Area. Photograph taken by A. Keranen.



Photograph 8: 7/13/14: View looking west/southwest at rubble and debris associated with the former stamp mill located in the Lake Linden Processing Area. Photograph taken by A. Keranen.

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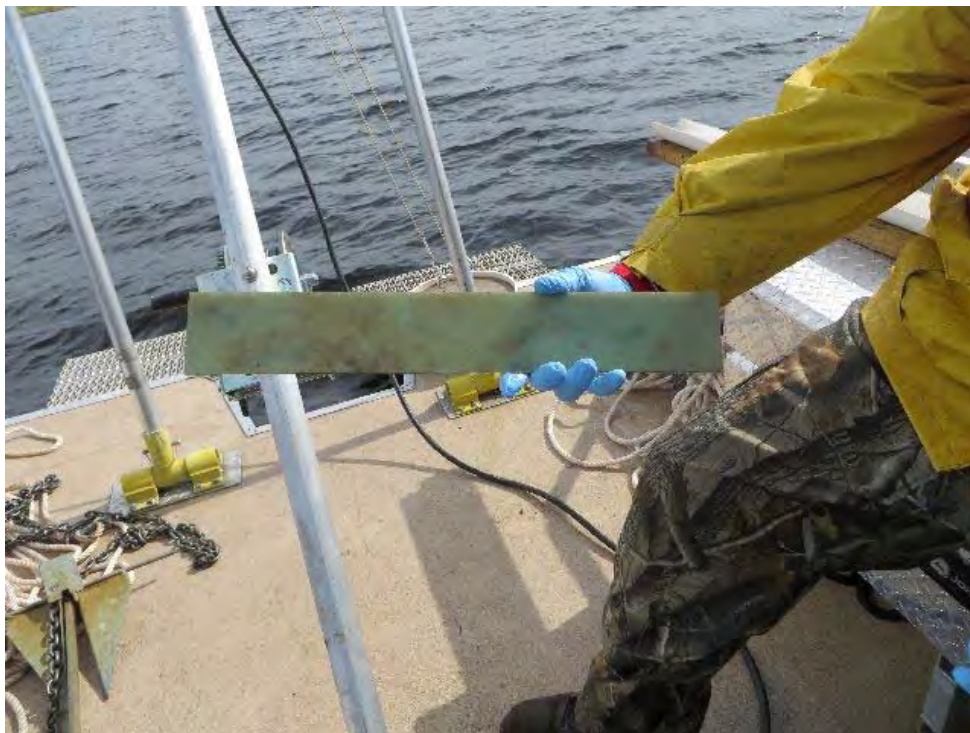


Photograph 9: 7/13/14: View looking down at the Michigan Department of Environmental Quality's (MDEQ) Geological Services Unit's (GSU) Remotely Operated Vehicle (ROV) used to visually assess underwater structures and debris. Photograph taken by A. Keranen.



Photograph 10: 7/13/14: View looking west/northwest at rubble, debris, and a pallet of deteriorated bags of copper chemical products located along the shoreline of the Lake Linden Processing Area. Photograph taken by A. Keranen.

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Photograph 11: 7/15/14: View looking down at circuit board material collected during offshore sampling operations in the Hubbell Processing Area. Photograph taken by A. Keranen.



Photograph 12: 7/15/14: View looking down at a sediment core collected from offshore of the Hubbell Processing Area. Photograph taken by A. Keranen.

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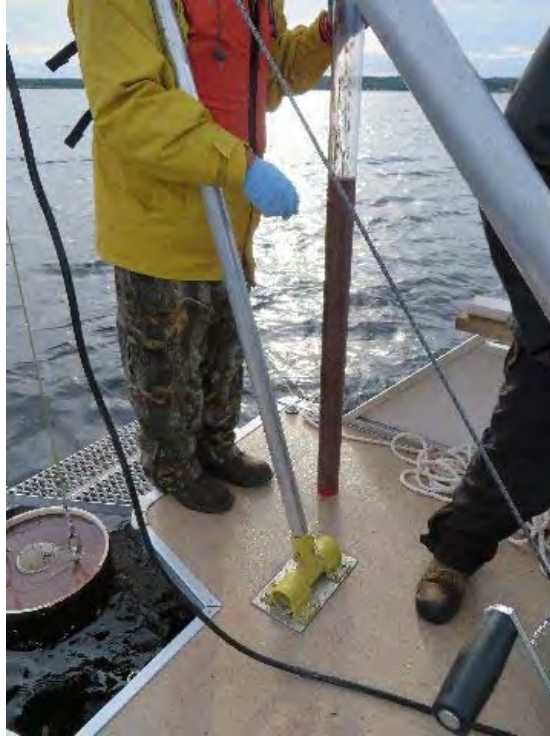


Photograph 13: 7/15/14: View looking down at a sediment core collected from offshore of the Hubbell Processing Area. Photograph taken by A. Keranen.



Photograph 14: 7/15/14: View looking west at rubble and debris along the shoreline of the Hubbell Processing Area. Photograph taken by D. Liebau.

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Photograph 15: 7/15/14: View looking south at the recovery of a sediment sample core during offshore sampling operations. Photograph taken by D. Liebau.



Photograph 16: 7/23/14: View looking down at an example of circuit board waste that is distributed on the ground surface and offshore of the Hubbell Processing Area. Photograph taken by A. Keranen.

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Photograph 17: 7/23/14: View looking south at a debris pile located in the Hubbell Processing Area. Photograph taken by A. Keranen.



Photograph 18: 7/23/14: View looking southwest at the fallen stack and debris located in the Hubbell Processing Area. Photograph taken by A. Keranen.

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Photograph 19: 7/16/14: View looking south at the interior of the former Mineral Building. Mineral storage bins, more than 20 feet deep, are shown along the right side of the photograph.. Photograph taken by A. Keranen.



Photograph 20: 11/15/13: View looking down/south into a former mineral storage bin, inside the former Mineral Building. Photograph taken by A. Keranen.



Photograph 21: 8/19/14: View looking down at the collected sample from location CHLL-SB135. Photograph taken by A. Keranen



Photograph 22: 8/19/14: View looking down at the collected sample from location CHLL-SB136. Photograph taken by A. Keranen.

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Photograph 23: 8/20/14: View looking south/southeast at deteriorated abandoned containers located in the Hubbell Processing Area. Samples were collected from the contents of each container. Photograph taken by A. Keranen.



Photograph 24: 8/20/14: View looking down at the collection of a soil sample from location CHLL-SB74. Photograph taken by A. Keranen.



Photograph 25: 10/06/14: View looking down/south at cap erosion along the shoreline in the Lake Linden Recreation Area. Photograph taken by D. Liebau.



Photograph 26: 10/06/14: View looking down/southwest at abandoned containers located in a wooded area in the Hubbell Processing Area. Photograph taken by D. Liebau.

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Photograph 27: 10/07/14: View looking south/southeast at a debris pile and abandoned container located in the Hubbell Processing Area. Photograph taken by D. Liebau.



Photograph 28: 10/07/14: View looking west at a debris pile in the Hubbell Processing Area. The former Mineral Building is visible in the background of the photograph. Photograph taken by D. Liebau.

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Photograph 29: 10/07/14: View looking south/southwest at the shoreline south of East 11th Street in the Hubbell Beach and Slag Dump Area. Photograph taken by D. Liebau.



Photograph 30: 10/07/14: View looking west at a stormwater discharge pipe located south of the public beach in the Hubbell Beach and Slag Dump Area. Photograph taken by D. Liebau.

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Photograph 31: 10/07/14: View looking northwest at exposed slag in the Hubbell Beach and Slag Dump Area. Elevated lake levels have resulted in the erosion of cap material along the shoreline of Torch Lake. Photograph taken by D. Liebau.



Photograph 32: 10/14/14: View looking northwest at a debris pile located in the wooded area of the Hubbell Processing Area. Photograph taken by D. Liebau.

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Photograph 33: 10/15/14: View looking down/southeast at a debris pile in the Hubbell Processing Area. The materials were sampled and analyzed for asbestos content. Photograph taken by D. Liebau.



Photograph 34: 10/15/14: View looking down/north at the collection of a five-point composite sample from a debris pile located in the Hubbell Processing Area. Photograph taken by D. Liebau.

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Photograph 35: 5/12/15: View looking northeast at storm water draining from the former C&H Coal Dock property to a depression adjacent to the bulkhead along the shoreline of Torch Lake. Photograph taken by A. Keranen.



Photograph 36: 5/12/15: View looking northeast at collected storm water at the former Coal Dock property discharging to Torch Lake through eroded channels along the bulkhead. Photograph taken by D. Liebau.

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Photograph 37: 5/12/15: View looking west at the installation of boring SB146 located in the Hubbell Processing Area. Photograph taken by D. Liebau.



Photograph 38: 5/31/15: View looking west at a partially buried/submerged drum (identified by the yellow arrow) beneath cap material along the shoreline of Torch Lake in the Hubbell Processing Area. Photograph taken by A. Keranen.

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Photograph 39: 7/02/15: View looking east at a submerged drum observed offshore of the former Hubbell Smelter property in the Hubbell Processing Area. Photograph taken by D. Liebau.



Photograph 40: 7/02/15: View looking down/south at a partially submerged dilapidated drum with contents still intact offshore of the former Hubbell Smelter property in the Hubbell Processing Area. Photograph taken by D. Liebau.

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Photograph 41: 6/30/15: View looking north at the concrete structures and foundations associated with the former Calumet Mill located in the Lake Linden Processing Area. Photograph taken by D. Liebau.



Photograph 42: 6/30/15: View looking down/southwest at surface soil sampling location SS-13 located in the Lake Linden Processing Area. The soil sample was collected to assess the presence of asbestos in soil in the vicinity of apparently burnt asphaltic roofing material and debris. Photograph taken by D. Liebau.

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Photograph 43: 6/30/15: View looking down/northwest at suspect thermal system insulating material and asphaltic roofing material located in the center of a concrete table at the former Calumet Mill. Analytical samples CHLL-ASBBLK-38A, CHLL-ASBBLK-39A, and CHLL-ASBBLK-40A were collected from this location in the Lake Linden Processing Area. Photograph taken by D. Liebau.



Photograph 44: 6/30/15: View looking down/southwest at a suspect transite fragment located in a concrete depression at the Calumet Mill. Analytical sample CHLL-ASBBLK-43A is representative of this material located in the Lake Linden Processing Area. Photograph taken by D. Liebau.

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Photograph 45: 7/01/15: View looking south/southwest at areas of the former Hecla Mill, located in the Lake Linden Processing Area, that were remediated under the authority of the EPA. Photograph taken by D. Liebau.



Photograph 46: 07/01/15: View looking west/southwest at debris including suspect asbestos containing material and degraded bags of copper concentrate commingled with apparent sand backfill along the eastern limits of the former Hecla Stamp Mill. Analytical samples CHLL-ASBBLK-59A, CHLL-ASBBLK-60A, CHLL-ASBBLK-61A, CHLL-ASBBLK-62A, and CHLL-ASBBLK-63A were collected from this area and are representative of the materials present in this area of the Lake Linden Processing Area. Photograph taken by D. Liebau.