

ENCORE

Due Care Plan

Saginaw Malleable Iron Plant

Saginaw, Michigan

September 27, 2007

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1. General Site Information

1.1 Site Description

The Saginaw Malleable Iron (SMI) Plant is located at 77 West Center Street in Saginaw Michigan (Figure 1), approximately 2,000 feet north of the confluence of the Shiawassee and Tittabawassee Rivers, in the western half of Section 35, T12N, R4E. It consists of approximately 100 acres and includes the plant buildings, adjacent lawn and industrial yard areas, a wastewater treatment plant with settling basin, a former water recirculation system consisting of a former primary pond (filled) a secondary settling pond, a storm water pond, and two drainage ditches (filled with the exception of small area at the end of one of the former ditches), two terminated Type III landfills, and lawn frontage along the Saginaw River. It is bounded on the east by the Saginaw River, the north by residential and industrial property, on the west by the Delphi Automotive Systems Plant 2, and on the south by property owned by a GM subsidiary, the Remediation and Liability Management Company, Inc. (REALM). The property is zoned industrial.

The topography is generally flat, with the exception of the two terminated Type III landfills, and lies partially in the 100 year floodplain of the Saginaw River.

The plant area is approximately one million square feet in size, with adjacent areas covered with either paving or grass, except for an unpaved area southwest of the building and roadways within the railyard area north of the building. In September 2007, active manufacturing operations at the plant were discontinued. The plant structure is currently standing; however, demolition is being planned.

Onsite surface water includes the stormwater pond, secondary settling pond, and a small area at the end of a former drainage ditch at the north end of the property, which contain water all year. The secondary pond partially dries up during part of the year.

1.2 Operational History

Plant activities consisted of casting and heat treating iron. The manufacturing processes used scrap iron, lake sand, sea coal, bentonite clay, phenolic resin, quench oils, and hydraulic oil. Foundry activities have taken place on the property since the turn of the 20th century.

1.3 Geology

An understanding of the Site geology has been developed through soil and groundwater investigations on the property, as well as investigations of the surrounding properties. In descending order, the following overburden deposits are present: fill material (present in some areas), glaciolacustrine silty sand underlain by a silty clay unit, and coarse sand. The sand layer pinches out on the western edge of the Site and splits into two units separated by a thin clay layer to the east, toward the Saginaw River. Below the sand layer(s), a silty clay/clay till extends to bedrock. Bedrock was encountered on a neighboring property at 86 feet below grade. Bedrock beneath the Site is shale of the Pennsylvanian Saginaw Formation. Appendix A includes subsurface cross sections of the area.

1.4 Hydrogeology

Groundwater is present at a depth of 8 to 12 feet below grade. Flow is generally eastward toward the River, although the Green Point Landfill (located on the adjacent REALM property south of the Site), the two terminated landfills, and the former water recirculation system have locally influenced groundwater flow. Potentiometric and water table contour maps are included in Appendix A. Mean hydraulic conductivities for the various overburden units are as follows; 1.54×10^{-3} centimeters per second (cm/sec) for fill material, 1.05×10^{-3} cm/sec for silts, 1.41×10^{-3} cm/sec for the upper sand unit, 3.86×10^{-3} cm/sec for the lower sand unit, 1.07×10^{-6} cm/sec for the upper silty clay and 12.83×10^{-6} cm/sec for the lower silty clay.

Groundwater is limited in quantity in the unconsolidated materials and is not of good quality in the bedrock unit because of high dissolved solids. Drinking water is obtained through the City of Saginaw from Lake Huron.

1.5 Land Use

The property is the Site of a decommissioned plant and is zoned industrial. There are no plans to change the current land use.

1.6 Barriers

Barriers include fencing around the property on the west and a portion of the northern Site boundaries, additional fencing along the eastern boundary of the previously active

manufacturing plant area, and paving and building foundations in many areas. Figure 2 shows the locations of Site features.

1.7 Potential Receptors

There are no residential receptors, as the property is and is anticipated to remain industrial. There are currently routine workers involved with plant decommissioning maintenance personnel and periodic utility workers at the Site. Investigation and remediation personnel are also present at the Site to complete periodic sampling and remedial activities. Trespassers are possible but would not be common.

2. Potential Exposure Pathways

2.1 Surface Water Pathway

There are a number of surface water features onsite, including engineered process water conveyance systems and process water/storm water sedimentation basins. There is no routine exposure to onsite surface water. There could be infrequent contact by workers collecting surface water samples, or accidental contact if someone were to fall in.

2.2 Sediment Pathway

Contact with Site sediments is unlikely. There is no routine work done within the surface water bodies. As stated above for the surface water pathway, there could be infrequent contact by workers collecting samples or accidental contact with sediments if someone were to fall into one of the surface water bodies.

2.3 Groundwater Pathway

Drinking Water - This is not a current or reasonable future pathway. Drinking water comes from the City and there will be future deed restrictions on the use of groundwater at this Site.

Groundwater Contact - This is a potential pathway if excavation occurs to the water table and when groundwater monitoring wells are sampled.

Groundwater Volatilization to Ambient Air - This is a potential pathway.

Groundwater Volatilization to Indoor Air - This is a potential pathway in areas covered by the plant buildings.

2.4 Soil Pathway

Direct Contact - Contact with surface soil is a potential pathway for workers in the lawn areas, at the two terminated landfills, the railyard area, and the unpaved area located west/southwest of the plant building. Contact with subsurface soils is a potential pathway during excavation activities.

Particulate Inhalation - This is a potential pathway at the ground surface in the unpaved areas of the Site. With the exception of roadways within the railyard area and the unpaved area located south/southwest of the plant, the Site is vegetated and unlikely to yield high levels of particulates. Particulate inhalation is also a potential pathway during excavation activities.

Soil Volatilization to Ambient Air - This is a potential pathway.

Soil Volatilization to Indoor Air - This is a potential pathway in areas covered by the plant buildings.

3. Evaluation of Data With Respect to Potentially Complete Pathways and Receptors

In order to allow the review of data for specific portions of the Site, the following Site areas have been identified, and are discussed individually in the following subsections:

- Aboveground Storage Tank Area
- Center Street Area
- Central Terminated Type III Landfill Area
- Eastern Terminated Type III Landfill Area
- LNAPL Area South of Plant
- Melting Department
- Northern Drainage Channels
- Parking Lot/Buffer Basin Area
- Parking Lots East of Plant
- Plant – I27.7 Area
- Previous Metal Feedstock Area
- Primary Settling Pond
- Quench Pit Area
- Railyard Area
- Saginaw River Area
- Secondary Settling Pond
- Stormwater Pond
- Underground Storage Tank Areas

Analytical data, sorted alphabetically by area, are shown in Tables 1 through 14. Table notes are provided in Table 15. Figures 2, 3, and 4 show Site sampling locations. Note that there are a number of exceedances of generic Michigan Department of Environmental Quality (MDEQ) industrial drinking water criteria in groundwater, and exceedances of generic MDEQ groundwater protection criteria in soil at the Site. Since Site groundwater is not currently used as a drinking water source, and a deed restriction preventing future use of groundwater as a drinking water source is being proposed as part of the Site Remedial Action Plan, comparison of Site data to the drinking water criteria is not discussed in the following sections. For reference, Tables 1 through 4 do show a comparison of groundwater data to generic MDEQ industrial drinking water criteria, and tables 5 through 8 show a comparison of soil data to the generic MDEQ groundwater protection criteria.

As shown in Table 9, the generic MDEQ criteria for groundwater contact have been used to provide a general point of reference for comparison to surface water data. In a similar manner, generic soil criteria have been used to provide a general point of reference for sediment data. In both cases the assumptions used to develop the criteria are not designed to be applicable to these media; however, the comparison is useful when looking at the data with respect to potential hazards.

3.1 Aboveground Storage Tank Area

The Aboveground Storage Tank Area is located adjacent to the main plant building, along the northeast side of the plant. On Figure 4, soil borings in this area begin with an "AST" prefix.

3.1.1 Surface Water Pathway

There is no surface water in this area.

3.1.2 Sediment Pathway

There are no sediments in this area.

3.1.3 Groundwater Pathway

Groundwater Contact - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.1.4 Soil Pathway

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.2 Center Street Area

This area includes the portion of the Site that borders Center Street and includes a former municipal dump that was previously owned by the City of Saginaw. The former dump extends from Center Street approximately 300 feet under the front yard of the plant in the vicinity of the plant access road.

3.2.1 Surface Water Pathway

There is no surface water in this area.

3.2.2 Sediment Pathway

There are no sediments in this area.

3.2.3 Groundwater Pathway

Groundwater Contact - The generic MDEQ criteria for benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were exceeded at temporary well TW203WT (Figure 3).

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.2.4 Soil Pathway

Soil data are limited for this area of the Site (Tables 5 through 8).

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.3 Central Terminated Landfill

The Central Terminated Landfill is located west of the Secondary Settling Pond, at the southern Site boundary. The landfill received spent foundry sand, scrubber residue, slag, and other materials approved for Type III disposal from 1984 through 1990. The landfill is vegetated, and is maintained by periodic mowing.

3.3.1 Surface Water Pathway

There is no surface water in this area.

3.3.2 Sediment Pathway

There are no sediments in this area.

3.3.3 Groundwater Pathway

Groundwater Contact - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - This is not a potential pathway as no buildings will be placed on top of the landfill. There are no detections above generic MDEQ criteria.

3.3.4 Soil Pathway

There are no soil samples from the landfill itself. There is a soil sample available from SB-112, west of the landfill along the fence line (8-10 foot depth).

Direct Contact - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.4 Eastern Terminated Landfill

The Eastern Terminated Landfill is located north of the Secondary Settling Pond, separated from the Saginaw River by a drainage swale and berm. The landfill received spent foundry sand, scrubber residue, slag, and other materials approved for Type III disposal from 1979 through 1984. The landfill is vegetated, and is maintained by periodic mowing.

3.4.1 Surface Water Pathway

There is no surface water in this area.

3.4.2 Sediment Pathway

There are no sediments in this area.

3.4.3 Groundwater Pathway

Groundwater Contact - The generic MDEQ criterion for PCBs was exceeded at monitoring well B-4AR in 1995. Subsequent sampling showed concentrations below the criterion.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - This is not a potential pathway as no buildings will be placed on the landfill. There are no detections above generic MDEQ criteria.

3.4.4 Soil Pathway

There are no soil samples available in this area.

3.5 LNAPL Area South of Plant

The LNAPL area south of the plant is located south of the plant building, between the plant building and the adjacent Delphi property. An operating groundwater and LNAPL recovery system is present in this area. Note that due to the migration of LNAPL along sewer lines, data for monitoring locations located along sewer lines that extend north of

the buffer basin (MW-177WT, MW-178WT, MW-179WT, and MW-180WT) are included in the discussion of this area.

3.5.1 Surface Water Pathway

There is no surface water in this area.

3.5.2 Sediment Pathway

There are no sediments in this area.

3.5.3 Groundwater Pathway

Groundwater Contact - The generic MDEQ direct contact criterion for PCBs was exceeded at monitoring wells MW147WT, MW170WT, and TW239WT. Each of these monitoring wells was found to contain LNAPL subsequent to groundwater sample collection, suggesting that a small amount of LNAPL was likely contained in the groundwater samples.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - The generic MDEQ criterion for volatilization to indoor air for PCBs was exceeded at monitoring wells MW147WT, MW170WT, and TW239WT. As stated above, each of these monitoring wells was found to contain LNAPL subsequent to groundwater sample collection, suggesting that a small amount of LNAPL was likely contained in the groundwater samples.

3.5.4 Soil Pathway

The direct contact criterion for lead was exceeded in two soil samples from soil boring SB-363, and in one sample from SB-362, along the fence line. The SB-363 area is covered by crushed stone. SB-362 is below a concrete barrier. Some samples taken from this area contained PCBs at concentrations greater than the direct contact criterion (US-5 and US-5-7). Those soils were removed in 1997.

Direct Contact - The generic MDEQ industrial direct contact criterion for lead was exceeded in the following three soil samples: SB-362 (0-2'), SB-363 (0-2'), and SB-363 (4-6').

Particulate Inhalation - The generic MDEQ industrial particulate inhalation criterion for manganese was exceeded in SB-350 (4-6'). There is currently no complete pathway because the soil is not exposed.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.5.5 LNAPL

There is LNAPL present in some of the monitoring wells located in this area of the Site. As shown in Table 14, PCBs are present within the LNAPL at some of the wells. An LNAPL recovery system is present, and is operated by a professional contractor using appropriate health and safety controls.

3.6 Melting Department

The Melting Department is located in the northwest corner of the SMI Plant. Molten iron was prepared in this area for the production of castings.

3.6.1 Surface Water Pathway

This is no surface water in this area.

3.6.2 Sediment Pathway

There are no sediments in this area.

3.6.3 Groundwater Pathway

Groundwater was not encountered during sampling activities in this area.

3.6.4 Soil Pathway

Direct Contact - The generic MDEQ criterion for PCBs were exceeded in the sample collected from S1188 from 3 to 5 feet bgs. There is currently no complete pathway because the soil is not exposed.

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.7 Northern Drainage Channels

The northern drainage channels include the filled north-south oriented channel that parallels the Saginaw River, and the partially filled east-west oriented channel that is located at the northern end of the Site.

3.7.1 Surface Water

Three surface water samples (SW-1, SW-2, and SW-3) were collected from the northern drainage channels in 1995. As shown in Table 9, the few detected constituents were found at low concentrations. In addition, the north-south oriented channel has been filled and standing water is no longer present.

3.7.2 Sediments

Particulate Inhalation - Sediment samples collected at sampling locations SD-01, SD02, SD03, SD04, SD05, SD07, and SD09 (Figure 2) were found to contain manganese at concentrations above the generic MDEQ industrial particulate inhalation criterion. The sediments located in the east-west oriented channel are currently under fill material. There is no complete exposure pathway to sediments in the north-south oriented channel, as that channel has been filled.

3.7.3 Groundwater

Groundwater quality data for locations north, east, and west of the drainage channels are discussed in Sections 3.2, 3.15, and 3.4, respectively.

3.7.4 Soils

Soil data for locations north, east, and west of the drainage channels are discussed in Sections 3.2, 3.15, and 3.4, respectively.

3.8 Parking Lot Area and Buffer Basin Area

The Parking Lot and buffer basin area is located southeast of the main plant building. The basin was constructed in 1996, as a component of the new Water Recycle System.

3.8.1 Surface Water Pathway

The buffer basin is a lined process unit, and no surface water samples have been collected.

3.8.2 Sediment Pathway

The buffer basin is a lined process unit, and no sediment samples have been collected.

3.8.3 Groundwater Pathway

Groundwater Contact - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.8.4 Soil Pathway

Soil data were collected in this area prior to buffer basin construction.

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - Manganese was detected in the samples collected from boring BH10 from 0 to 2 and 2 to 4 feet below ground surface (bgs) at concentrations above the generic industrial MDEQ soil criterion for particulate inhalation. A complete exposure pathway is not present since this area is paved(Figure 4).

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.9 Parking Lots East of Plant

This area includes the former parking lots east of the main plant and north of the Previous Metal Feedstock area. Soil data is available for this area as a result of a boring program completed prior to pavement removal.

3.9.1 Surface Water Pathway

There is no surface water in this area.

3.9.2 Sediment Pathway

There are no sediments in this area.

3.9.3 Groundwater Pathway

There are no groundwater quality data for this area.

3.9.4 Soil Pathway

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - The generic MDEQ industrial particulate inhalation criterion for manganese was exceeded at the following sampling locations: PL-1 (0.75 - 1.21'), PL-2 (0.75 - 1.67'), PL-3 (0.67 - 1.67'), and PL-4 (0.75 - 1.5').

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.10 Plant I27.7 Area

The I27.7 Area is located in the Foundry Department, inside the northern portion of the SMI Plant building. Sampling locations in this area have a "BH" prefix. PCB-containing oil was spilled from a transformer onto exposed soil in 1971. The area is covered with concrete (Figure 4).

3.10.1 Surface Water Pathway

There is no surface water in this area.

3.10.2 Sediment Pathway

There are no sediments in this area.

3.10.3 Groundwater Pathway

Groundwater was not encountered during sampling activities in this area.

3.10.4 Soil Pathway

Direct Contact - The direct contact criterion for PCBs is exceeded at the following sampling locations: BH01-98 (1-3'; 5-7"), BH03-98 (5-6.5'), BH04-98 (1-3'; 7-7.25), BH05-98 (1-3'), BH06-98 (1-3'), and BH07-98 (13-15').

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - The generic MDEQ soil volatilization criterion for PCBs was exceeded at BH05-98 (1-3') and BH07-98 (13-15').

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.11 Previous Metal Feedstock Area

The Previous Metal Feedstock Area is located east of the SMI Plant building, and is partially covered by pavement and partially by lawn. This area was previously used for storage of metal feedstock.

3.11.1 Surface Water Pathway

There is no surface water in this area.

3.11.2 Sediment Pathway

There are no sediments in this area.

3.11.3 Groundwater Pathway

Groundwater Contact - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.11.4 Soil Pathway

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - The generic MDEQ industrial particulate inhalation criterion for manganese was exceeded at borings SB-304 (0-1'), SB-304 (2-4'), SB-305 (2-4'), and SB-305 (6-8').

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.12 Primary Settling Pond

The former Primary Settling Pond area is located south of the SMI Plant. The Primary Settling Pond was part of the Water Recirculation System for the plant, and received turbid process water that was routed to the Secondary Settling Pond and then through the northern drainage channels and back to the plant. This pond dried up once the new Water Recycle System was brought on-line, and has since been graded off and seeded. It is now part of the plant lawn area.

3.12.1 Surface Water Pathway

There is no longer surface water in this area.

3.12.2 Sediment Pathway

There were no exceedances of criteria and the pond has been graded off with surface soil and vegetated. This is no longer a pathway.

3.12.3 Groundwater Pathway

Groundwater data are not available for this area.

3.12.4 Soil Pathway

One soil sample was collected from this area prior to filling of the pond. The native soil sample was collected below sediment present at the base of the pond.

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.13 Quench Pit Area

The Quench Pit Area is located in the Annealing Department, inside the central portion of the SMI Plant building. Monitoring wells are present around the three quench oil tanks in the kiln area. LNAPL is present in these wells and was previously found and removed from an adjacent abandoned 50" sewer. There are PCBs in the LNAPL. An automated pump is operated in one of the monitoring wells to recover LNAPL from this area. All work is done by an environmental contractor.

3.13.1 Surface Water Pathway

There is no surface water in this area.

3.13.2 Sediment Pathway

There are no sediments in this area.

3.13.3 Groundwater Pathway

Groundwater Contact - The generic MDEQ direct contact criterion for chrysene was exceeded at temporary well TW-229WT, located at the eastern corner of the plant building.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.13.4 Soil Pathway

There are no soil data for the Quench Pit Area.

3.13.5 LNAPL

There is LNAPL in some monitoring wells (QPTW-3, QPTW-10, QPTW-13) in this area. LNAPL recovery in this area is completed by a professional contractor using appropriate health and safety controls.

3.14 Railyard Area

The Railyard Area is located north of the plant. This area is currently used by the Plant as a storage yard and is vegetated with the exception of roadways that cross the area.

3.14.1 Surface Water Pathway

There is no surface water in this area.

3.14.2 Sediment Pathway

There are no sediments in this area.

3.14.3 Groundwater Pathway

Groundwater Contact - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria. There are no buildings in this area.

3.14.4 Soil Pathway

Direct Contact - There was one exceedance of direct contact for PCBs in sample location RS-5 (0-1 foot). This soil was removed in 1997 and confirmation samples were collected, demonstrating that remaining soil PCB concentrations are below the direct contact criterion. There was one exceedance of direct contact criterion for lead in sample RS 2-6 (0-1'). All other samples collected in this area are below the direct contact criteria.

Particulate Inhalation - There are thirteen exceedances of the generic particulate inhalation criterion for manganese in the railyard area: RS-2 (0-1'), RS-3 (0-1'), RS-6 (0-1'), RS-8 (0-1'), RS-09 (0-1'), RS-11 (0-1'), RS-12 (0-1'), RS-13 (0-1'), RS-14 (0-1'), RS-17 (0-1'), BH11 (0-2'), BH12 (0-2'), and BH12(2-4'). This area has been evaluated based on Site-specific exposure scenarios, and was found not to present a human health risk. There are three exceedances of the generic inhalation criterion for total chromium in the railyard area: BH12 (0-2'), RS-2 (0-1'), and RS-3 (0-1').

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.15 Saginaw River Area

This area includes the berm that borders the Saginaw River at the eastern edge of the Site.

3.15.1 Surface Water Pathway

There is no surface water in this portion of the Site.

3.15.2 Sediment Pathway

There are no sediments in this portion of the Site.

3.15.3 Groundwater Pathway

Groundwater Contact - The generic MDEQ criterion for industrial groundwater contact was exceeded for PCBs at temporary wells TW-212WT and TW213WT and MW-112WT. The generic MDEQ criterion for industrial groundwater contact was exceeded for vinyl chloride at MW-110WT.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - The generic MDEQ criterion for volatilization of PCBs to indoor air was exceeded at temporary monitoring well TW-212WT. The generic criterion was not exceeded in a permanent well that was subsequently installed nearby, and there are no buildings in this area of the Site.

3.15.4 Soil Pathway

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - The generic MDEQ criterion for industrial particulate inhalation of manganese was exceeded at the following soil sampling locations: SB-377 (0-0.5' and 0.5-1'), SB-379 (0.5-1'), SB-382 (0-0.5' and 0.5-1'), SB-384 (0.5-1'), SB-387 (0.5-1'), and SB-388 (0-0.5').

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.16 Secondary Settling Pond

The Secondary Settling Pond is located in the southeast corner of the property and is separated from the Saginaw River by a berm. This pond is currently used for storm water management, and portions of the pond dry up during the summer months, exposing sediments. Soil and groundwater data for sampling locations around the

perimeter of the pond are discussed in this section, with the exception of data for the berm area east of the pond, which is discussed in the previous section for the Saginaw River Area.

3.16.1 Surface Water Pathway

As shown on Figure 2 and in Table 9, surface water samples were collected from the pond in 1995. For reference, the data were compared to the generic MDEQ groundwater contact criteria, and all detected concentrations were well below the screening criteria.

3.16.2 Sediment Pathway

Particulate Inhalation - The generic MDEQ industrial particulate inhalation criterion for manganese was exceeded at SD-20 (0-1'), collected from the Secondary Settling Pond. This sample was collected from the base of the pond, and due to the presence of standing water year-round in this portion of the pond, the assumptions used to generate the criterion are not applicable.

3.16.3 Groundwater Pathway

Groundwater Contact - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.16.4 Soil Pathway

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.17 Stormwater Pond

The Stormwater Pond is located just north of the Secondary Settling Pond. The pond has been lined and is currently used to manage stormwater.

3.17.1 Surface Water Pathway

Two surface water samples were collected from the pond in 1995 and 1998, respectively. As shown in Table 9, the few detected analytes were found at low concentrations.

3.17.2 Sediment Pathway

Particulate Inhalation - The generic MDEQ particulate inhalation criterion for manganese was exceeded at SD-08 (3-4.5'), collected from the Stormwater Pond. Due to the presence of standing water in the pond, there was never a complete exposure pathway associated with this sediment. In addition, since this sample was collected, soil removal and lining of the Stormwater Pond have been completed. Therefore, exceedance of the particulate inhalation criterion does not pose an exposure risk.

3.17.3 Groundwater Pathway

No groundwater samples were collected in this area of the Site.

3.17.4 Soil Pathway

Four native soil samples were collected below the base of the pond prior to excavation and lining.

Direct Contact - There are no detections above generic MDEQ criteria.

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Soil Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

3.17.5 LNAPL

PCBs were detected in two LNAPL samples collected from the pond in 1998. LNAPL was removed at the time it was observed in the pond.

3.18 UST Areas

Eleven USTs were previously located at the plant, and were removed between 1982 and 1991. Soil borings completed at the various UST areas located around the plant have a "UST" prefix (Figure 4).

3.18.1 Surface Water Pathway

There is no surface water in these areas.

3.18.2 Sediment Pathway

There are no sediments in these areas.

3.18.3 Groundwater Pathway

Groundwater Contact - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Ambient Air - There are no detections above generic MDEQ criteria.

Groundwater Volatilization to Indoor Air - There are no detections above generic MDEQ criteria.

The concentration of xylene in a groundwater sample collected in 1992 just west of the former UST #7 area, at T07-B111 was above the generic MDEQ Flammability and Explosivity Screening Level. Groundwater samples collected nearby were all below this screening level.

3.18.4 Soil Pathway

Direct Contact - The generic MDEQ industrial direct contact criterion for xylene was exceeded at T07-B036 (7-9') and UST7-MW2 (5-7'). Both of these samples were collected in the UST-7 area.

Particulate Inhalation - There are no detections above generic MDEQ criteria.

Soil Volatilization to Ambient Air - The generic MDEQ volatile soil inhalation criterion for benzene was exceeded at T07-B036 (7-9'), located in the former UST #7 area.

Soil Volatilization to Indoor Air - The generic MDEQ soil volatilization to indoor air criterion for benzene was exceeded at BBL-SB3 (8-10'), T07-B036 (7-9'), T07-B037 (7-9'), T07-B040 (9-11'), T07-B041 (7-9'), T07-B111 (9-11'). The generic criterion for xylene was exceeded at T07-B036 (7-9') and UST7-MW2 (5-7').

Air monitoring has been completed in the area of UST7-2 inside the plant and within the tunnel located east of the UST #7 area. The results indicate that concentrations are far below OSHA inhalation standards for BETX compounds.

4. Site-Wide Procedures for Maintenance of Due Care

There is no routine frequent contact with surface water, sediment, groundwater, or subsurface soil at the Site. Any workers who will be in contact with surface water, sediment, groundwater, or soil that exceeds the appropriate generic criteria must have appropriate training and a health and safety plan that outlines precautions for personal protection, decontamination, and exclusion zone development based on the analytical results. Workers will be shown the analytical data pertinent to their work area prior to the start of work activities and asked to confirm their understanding of the risks by signature (Section 6). Removed soils and groundwater will be managed appropriately.

Groundwater is not currently utilized onsite or in the vicinity of the Site for drinking water. There will be restrictive covenants placed on the property as part of the Remedial Action Plan (RAP), which will prevent the future potable use of Site groundwater. Until the RAP is completed, GM Remediation personnel will ensure that no potable wells are installed.

This plan will be reviewed and updated, as needed to incorporate new data, changes in the MDEQ criteria, or if changes to the current property use are proposed.

This Due Care Plan is enforced by GM Remediation personnel (contact information is provided in the following Section).

5. Contact Personnel

Contact persons for the Site include:

Remediation

Cheryl Hiatt – (248) 753-5799

Ed Peterson – (248) 753-5849

GM Legal

Tony Thrubis – (313) 665-4768

6. Documentation of Due Care

Anyone who will be working in areas where groundwater, soil, surface water, or sediment concentrations exceed the appropriate criteria must acknowledge that a GM representative has reviewed available data for that area with them.

Signatures

Please print, sign and date your name below, acknowledging that you have reviewed the analytical data presented in this plan that is pertinent to your activities, and that you understand the potential risks and health and safety requirements in working at this Site.

Print Name	Signature	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____
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_____	_____	_____
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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	FE	GAI	GCC	IDW	IGVIA	Above Ground Storage Tank Area AST-B6 11/08/88	Above Ground Storage Tank Area TW1 09/07/89	Above Ground Storage Tank Area TW2 09/07/89	Above Ground Storage Tank Area TW3 09/07/89
Volatile Organics										
1,1,1-Trichloroethane	mg/L	{ID}	1,300 {S}	1,300 {S}	0.2 {A}	1,300 {S}	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	380	{ID}	2,400	2.5	2,300	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	97 {I}	140 {I}	11 {I}	0.007 {I,A}	1.3 {I}	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	56 {I,S}	{ID}	56 {I,S}	0.063 {I,E}	56 {I,S}	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	{NA}	{ID}	0.39	0.0002 {A}	1.2 {S}	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	{NA}	160 {S}	160 {S}	0.6 {A}	160 {S}	ND(0.25)	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	--	--	--	--	--	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	550 {I}	2,800 {I,S}	16 {I}	0.005 {I,A}	36 {I}	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	{ID}	{ID}	61 {I,S}	0.072 {I,E}	61 {I,S}	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	{ID}	{ID}	2	0.019	{ID}	ND(0.25)	NA	NA	NA
1,4-Dichlorobenzene	mg/L	{NA}	{ID}	6.4	0.075 {A}	74 {S}	ND(0.50)	NA	NA	NA
1,4-Dioxane	mg/L	140,000 {I}	{ID}	1,700 {I}	0.35 {I}	{NLV}	NA	NA	NA	NA
2-Butanone	mg/L	{ID}	240,000 {I,S}	240,000 {I,S}	38 {I}	240,000 {I,S}	NA	NA	NA	NA
2-Hexanone	mg/L	{NA}	{ID}	5,200	2.9	8,700	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	{ID}	20,000 {I,S}	13,000 {I}	5.2 {I}	20,000 {S}	NA	NA	NA	NA
Acetone	mg/L	15,000 {I}	1,000,000 {I,D}	31,000 {I}	2.1 {I}	1,000,000 {I,D,S}	NA	NA	NA	NA
Acrolein	mg/L	6,700 {I}	340 {I}	3,400 {I}	0.33 {I}	4.2 {I}	NA	NA	NA	NA
Benzene	mg/L	68 {I}	67 {I}	11 {I}	0.005 {I,A}	35 {I}	ND(0.00040)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Disulfide	mg/L	13 {I,R}	{ID}	1,200 {I,R,S}	2.3 {I,R}	550 {I,R}	NA	NA	NA	NA
Chlorobenzene	mg/L	160 {I}	{ID}	86 {I}	0.1 {I,A}	470 {I,S}	NA	NA	NA	NA
Chloroethane	mg/L	110	{ID}	440	1.7	5,700 {S}	NA	NA	NA	NA
Chloroform	mg/L	{ID}	{ID}	150	0.08 {A,W}	180	NA	NA	NA	NA
Chloromethane	mg/L	36 {I}	210 {I}	490 {I}	1.1 {I}	45 {I}	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	530	{ID}	200	0.07 {A}	210	NA	NA	NA	NA
Ethylbenzene	mg/L	43 {I}	170 {I,S}	170 {I,S}	0.074 {I,E}	170 {I,S}	ND(0.00040)	ND(0.010)	ND(0.010)	ND(0.010)
Isobutanol	mg/L	{ID}	{ID}	25,000 {I}	6.7 {I}	76,000 {I,S}	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	{ID}	56 {S}	2.3	56 {S}	NA	NA	NA	NA
m&p-Xylene	mg/L	--	--	--	--	--	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	{ID}	{ID}	610	0.04 {E}	47,000 {S}	NA	NA	NA	NA
Methylene Chloride	mg/L	{ID}	{ID}	220	0.005 {A}	1,400	NA	NA	NA	NA
Naphthalene	mg/L	{NA}	31 {S}	31 {S}	1.5	31 {S}	NA	NA	NA	NA
n-Butylbenzene	mg/L	{ID}	{ID}	5.9	0.23	{ID}	NA	NA	NA	NA
n-Propylbenzene	mg/L	{ID}	{ID}	15 {I}	0.23 {I}	{ID}	NA	NA	NA	NA
o-Xylene	mg/L	--	--	--	--	--	NA	NA	NA	NA
Propionitrile	mg/L	--	--	--	--	--	NA	NA	NA	NA
sec-Butylbenzene	mg/L	{ID}	{ID}	4.4	0.23	{ID}	NA	NA	NA	NA
Styrene	mg/L	140	310 {S}	9.7	0.1 {A}	310 {S}	NA	NA	NA	NA
Tetrachloroethene	mg/L	{ID}	200 {S}	12	0.005 {A}	170	NA	NA	NA	NA
Toluene	mg/L	61 {I}	{ID}	530 {I,S}	0.79 {I,E}	530 {I,S}	ND(0.00040)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,4-Dichloro-2-butene	mg/L	--	--	--	--	--	NA	NA	NA	NA
Trichloroethene	mg/L	{ID}	1,100 {S}	22	0.005 {A}	97	NA	NA	NA	NA
Vinyl Chloride	mg/L	33	{ID}	1	0.002 {A}	13	NA	NA	NA	NA
Total Xylenes	mg/L	70 {I}	190 {I,S}	190 {I,S}	0.28 {I,E}	190 {I,S}	NA	NA	NA	NA

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Above Ground Storage Tank Area TW4 09/07/89	Center Street Area MW-4 07/29/95	Center Street Area MW-4 06/10/96	Center Street Area MW-101WT 07/28/95	Center Street Area MW-101WT 06/05/96	Center Street Area MW-102S1 07/25/95	Center Street Area MW-102WT 07/25/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	R	ND(0.050)
4-Methyl-2-pentanone	mg/L	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	NA	0.034 J	0.048 J	ND(0.050 J)	ND(0.10)	ND(0.050)	ND(0.050)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0012)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	NA	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0025)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-103S1 07/12/95	Center Street Area MW-103S1 06/04/96	Center Street Area MW-103S2 07/12/95	Center Street Area MW-103WT 07/12/95	Center Street Area MW-103WT 06/04/96	Center Street Area MW-104S1 07/12/95	Center Street Area MW-104S2 07/12/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	NA	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050 J)
2-Hexanone	mg/L	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050 J)	NA	ND(0.050 J)	ND(0.050 J)	ND(0.10)	ND(0.050 J)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	NA	ND(0.0010)	0.0031	0.0028 J	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	0.00060 J	0.00042 J	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	NA	ND(0.0030)	0.0047	0.0031	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-104WT 07/12/95	Center Street Area MW-105S1 07/12/95	Center Street Area MW-105S2 07/12/95	Center Street Area MW-105WT 07/12/95	Center Street Area MW-106S1 07/12/95	Center Street Area MW-106S2 07/12/95	Center Street Area MW-106WT 07/12/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050 J)
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-136S1 07/20/95	Center Street Area MW-136S2 07/20/95	Center Street Area MW-136S2 06/05/96	Center Street Area MW-136WT 07/20/95	Center Street Area MW-136WT 06/06/96	Center Street Area MW-140S1 07/20/95	Center Street Area MW-140S1 06/05/96
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050 J)	NA	ND(0.050 J)	NA	ND(0.050)	NA
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050 J)	NA	ND(0.050)	NA	R	NA
4-Methyl-2-pentanone	mg/L	ND(0.050 J)	ND(0.050 J)	NA	ND(0.050)	NA	ND(0.050 J)	NA
Acetone	mg/L	ND(0.050 J)	ND(0.050 J)	NA	ND(0.050 J)	NA	ND(0.050)	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	NA	ND(0.050)	NA	ND(0.050)	NA
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Chloromethane	mg/L	ND(0.0010 J)	ND(0.0010 J)	NA	ND(0.0010)	NA	ND(0.0010)	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	NA
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	NA	ND(0.0030)	NA	ND(0.0030)	NA

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-140S2 07/20/95	Center Street Area MW-140S2 06/05/96	Center Street Area MW-140WT 07/20/95	Center Street Area MW-140WT 06/05/96	Center Street Area MW-141WT 07/28/95	Center Street Area MW-145WT 07/28/95	Center Street Area MW-145WT 06/04/96
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	R	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,4-Dioxane	mg/L	NA	NA	NA	NA	R	NA	NA
2-Butanone	mg/L	ND(0.050)	NA	ND(0.050)	NA	ND(0.0050 J)	ND(0.050)	NA
2-Hexanone	mg/L	R	NA	R	NA	ND(0.0050)	ND(0.050)	NA
4-Methyl-2-pentanone	mg/L	ND(0.050 J)	NA	ND(0.050 J)	NA	ND(0.0050)	ND(0.050)	NA
Acetone	mg/L	ND(0.050)	NA	0.0041 J	NA	ND(0.010 J)	ND(0.050)	NA
Acrolein	mg/L	NA	NA	NA	NA	R	NA	NA
Benzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	0.0019	NA
Carbon Disulfide	mg/L	ND(0.050)	NA	ND(0.050)	NA	ND(0.0010)	ND(0.050)	NA
Chlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Chloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Chloroform	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Chloromethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Ethylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Isobutanol	mg/L	NA	NA	NA	NA	R	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	R	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Tetrachloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Toluene	mg/L	ND(0.0010)	NA	ND(0.0012)	NA	ND(0.0010)	ND(0.0010)	NA
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	R	NA	NA
Trichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Vinyl Chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA
Total Xylenes	mg/L	ND(0.0030)	NA	ND(0.0030)	NA	ND(0.0010)	ND(0.0030)	NA

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-146WT 07/28/95	Center Street Area MW-146WT 06/12/96	Center Street Area MW-176WT 09/27/96	Center Street Area TW-201WT 02/06/95	Center Street Area TW-203S1 05/23/95	Center Street Area TW-203S2 05/24/95	Center Street Area TW-203WT 02/03/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	NA	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	NA	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050)
2-Hexanone	mg/L	R	NA	ND(0.050) [ND(0.050)]	R	ND(0.050)	ND(0.050)	R
4-Methyl-2-pentanone	mg/L	ND(0.050)	NA	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050)	NA	ND(0.10) [ND(0.10)]	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.0024	NA	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0014
Carbon Disulfide	mg/L	ND(0.050)	NA	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	0.0011	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	0.0018	NA	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	0.0017 J	NA	ND(0.0030) [ND(0.0030)]	ND(0.0030)	ND(0.0030 J)	ND(0.0030 J)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area TW-205S1 02/07/95	Center Street Area TW-205S2 02/07/95	Center Street Area TW-205WT 02/06/95	Eastern Type III Landfill B-4AR 07/25/95	Eastern Type III Landfill B-4BR 07/25/95	Eastern Type III Landfill B-4CAUG 07/25/95
Volatile Organics							
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.0082 J	ND(0.31)
2-Hexanone	mg/L	R	R	R	ND(0.050)	ND(0.083 J)	ND(0.31 J)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.083)	ND(0.31)
Acetone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	0.0051 J	0.063 J	0.096 J
Acrolein	mg/L	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0022	ND(0.0017)	ND(0.0062)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.083)	ND(0.31)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.014	ND(0.0017)	ND(0.0062)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0087)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0017)	ND(0.0062)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0022)	ND(0.0050)	ND(0.028)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill B-4CAUG 06/04/96	Eastern Type III Landfill B-4DAUG 07/25/95	Eastern Type III Landfill MW-133S1 07/20/95	Eastern Type III Landfill MW-133S2 07/20/95	Eastern Type III Landfill MW-133WT 07/20/95	Eastern Type III Landfill MW-134S1 07/20/95
Volatile Organics							
1,1,1-Trichloroethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.50)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.50)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.50)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	NA	ND(0.050) [ND(0.050)]	ND(0.050 J)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	NA	ND(0.050) [ND(0.050)]	ND(0.050 J)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Acetone	mg/L	NA	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA
Benzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Toluene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0015)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	NA	ND(0.0030) [ND(0.0030)]	ND(0.0030)	ND(0.0030) [ND(0.0030)]	ND(0.0019)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill MW-134S2 07/20/95	Eastern Type III Landfill MW-134WT 07/20/95	LNAPL Assessment Area B-2BAUG 07/29/95	LNAPL Assessment Area B-2R 07/29/95	LNAPL Assessment Area B-2R 06/11/96
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	R	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,4-Dioxane	mg/L	NA	NA	NA	R	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.0050 J)	NA
2-Hexanone	mg/L	R	ND(0.050)	ND(0.050)	ND(0.0050)	NA
4-Methyl-2-pentanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.0050)	NA
Acetone	mg/L	ND(0.050)	ND(0.050)	0.0039 J	ND(0.010 J)	NA
Acrolein	mg/L	NA	NA	NA	R	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.0010)	NA
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Isobutanol	mg/L	NA	NA	NA	R	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	R	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	R	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0010)	NA

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-132S1 07/21/95	LNAPL Assessment Area MW-132S1 06/07/96	LNAPL Assessment Area MW-132WT 07/21/95	LNAPL Assessment Area MW-132WT 06/06/96	LNAPL Assessment Area MW-147WT 07/30/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0025)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0025)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0025)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	NA	ND(0.050 J)	NA	ND(0.12)
2-Hexanone	mg/L	ND(0.050 J)	NA	ND(0.050)	NA	ND(0.12)
4-Methyl-2-pentanone	mg/L	ND(0.050 J)	NA	ND(0.050)	NA	ND(0.12)
Acetone	mg/L	ND(0.050 J)	NA	ND(0.050 J)	NA	0.023 J
Acrolein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	0.0044
Carbon Disulfide	mg/L	ND(0.050)	NA	ND(0.050)	NA	ND(0.12 J)
Chlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Chloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Chloroform	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Chloromethane	mg/L	ND(0.0010 J)	NA	ND(0.0010)	NA	ND(0.0025 J)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Ethylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Tetrachloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Toluene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Vinyl Chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0025)
Total Xylenes	mg/L	ND(0.0030)	NA	ND(0.0030)	NA	0.063

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-151WT 10/20/95	LNAPL Assessment Area MW-152WT 10/20/95	LNAPL Assessment Area MW-152WT 06/05/96	LNAPL Assessment Area MW-153WT 10/20/95	LNAPL Assessment Area MW-154WT 10/19/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	0.010 J
Acrolein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-154WT 06/13/96	LNAPL Assessment Area MW-155WT 10/19/95	LNAPL Assessment Area MW-156WT 10/20/95	LNAPL Assessment Area MW-156WT 06/07/96	LNAPL Assessment Area TW-239WT 02/02/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	0.0075 J (IDW)	ND(0.0050)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.0050)	ND(0.0050)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	0.19 [0.20]	0.29	ND(0.0050)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.0050)	ND(0.0050)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.0050)	ND(0.0050)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.31) [ND(0.36)]	ND(0.50)	ND(0.25)
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.31) [ND(0.36)]	ND(0.50)	R
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.31) [ND(0.36)]	ND(0.50)	ND(0.25)
Acetone	mg/L	0.013 J	ND(0.050)	ND(0.31) [ND(0.36)]	ND(1.0)	0.010 J
Acrolein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	0.00062 J	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.050)	0.0052 (IDW)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.31) [ND(0.0071)]	ND(0.50)	ND(0.25)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	0.19 (IDW) [0.20 (IDW)]	0.29 (IDW)	ND(0.0050)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0062) [ND(0.0071)]	ND(0.010)	ND(0.0050)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	0.032 (IDW) [0.035 (IDW)]	0.088 (IDW)	ND(0.0050)
Vinyl Chloride	mg/L	ND(0.0030)	ND(0.0010)	0.094 (IDW) [0.11 (IDW)]	0.13 (IDW)	ND(0.0050)
Total Xylenes	mg/L	0.0011 J	ND(0.0030)	ND(0.019) [ND(0.021)]	ND(0.030)	0.057

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels B-5BAUG 07/12/95	Northern Drainage Channels B-5CAUG 07/12/95	Northern Drainage Channels B-5R 07/12/95	Northern Drainage Channels MW-5A 07/13/95	Northern Drainage Channels MW-5A 06/08/96
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	R	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	R	NA	NA
2-Butanone	mg/L	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.0050 J)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	ND(0.050 J) [ND(0.050 J)]	ND(0.050 J)	ND(0.0050)	R	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.010 J)	ND(0.050)	ND(0.10)
Acrolein	mg/L	NA	NA	R	NA	NA
Benzene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Carbon Disulfide	mg/L	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.0010)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	R	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	R	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	ND(0.0010)	NA	NA
Trichloroethene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030) [ND(0.0030)]	ND(0.0030)	ND(0.0010)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels MW-5B 07/13/95	Northern Drainage Channels MW-5B 06/08/96	Northern Drainage Channels MW-6A 07/13/95	Northern Drainage Channels MW-6A 06/09/96	Northern Drainage Channels MW-6B 07/13/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	R	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	R	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.0050 J)	ND(0.050)	ND(0.050 J)
2-Hexanone	mg/L	R	ND(0.050)	ND(0.0050)	ND(0.050)	R
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)
Acetone	mg/L	0.0018 J	ND(0.10)	ND(0.010 J)	ND(0.10)	ND(0.050)
Acrolein	mg/L	NA	NA	R	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.0010)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	R	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	R	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	ND(0.0010)	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0010)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels MW-6B 06/09/96	Northern Drainage Channels TW-206WT 02/07/95	Northern Drainage Channels TW-207WT 02/07/95	Northern Drainage Channels TW-208S1 02/14/95	Northern Drainage Channels TW-208S2 02/14/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	0.0026 J	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	ND(0.050)	R	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.10)	0.012 J	ND(0.050)	ND(0.050)	ND(0.050)
Acrolein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0010
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels TW-208WT 02/14/95	Northern Drainage Channels TW-209S1 02/14/95	Northern Drainage Channels TW-209S2 02/14/95	Northern Drainage Channels TW-209WT 02/14/95	Parking Lot Area/ Buffer Basin B-1BAUG 07/20/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.0010 J
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/ Buffer Basin B-1CAUG 07/20/95	Parking Lot Area/ Buffer Basin B-1DAUG 07/20/95	Parking Lot Area/ Buffer Basin B-1R 07/20/95	Parking Lot Area/ Buffer Basin MW-130S1 07/20/95	Parking Lot Area/ Buffer Basin MW-130S2 07/20/95	Parking Lot Area/ Buffer Basin MW-130S3 07/20/95	Parking Lot Area/ Buffer Basin MW-130WT 07/20/95	Parking Lot Area/ Buffer Basin MW-130WT 06/06/96
Volatile Organics									
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050 J)	NA
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	NA
4-Methyl-2-pentanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	NA
Acetone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050 J)	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Vinyl Chloride	mg/L	0.0015	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	NA

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/ Buffer Basin MW-179WT 09/27/96	Parking Lot Area/ Buffer Basin MW-180WT 09/27/96	Parking Lot Area/ Buffer Basin MW-181WT 09/26/96	Previous Metal Feedstock B-6BAUG 07/21/95	Previous Metal Feedstock B-6CAUG 07/21/95	Previous Metal Feedstock B-6DAUG 07/21/95
Volatile Organics							
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J) [ND(0.050 J)]
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050) [ND(0.050)]
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050) [ND(0.050)]
Acetone	mg/L	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J) [ND(0.050 J)]
Acrolein	mg/L	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010) [ND(0.0010)]
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030) [ND(0.0030)]

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Previous Metal Feedstock B-6R 07/21/95	Quench Pit MW-137WT 07/28/95	Quench Pit QPTW-6 04/12/97	Quench Pit QPTW-7 04/12/97	Quench Pit QPTW-8 04/12/97	Quench Pit QPTW-9 04/12/97	Quench Pit QPTW-11 04/12/97	Quench Pit QPTW-12 04/12/97	Quench Pit QPTW-13 04/12/97	Quench Pit TW-228S1 01/31/95	Quench Pit TW-228WT 01/31/95
Volatile Organics												
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	0.00037 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00017 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00013 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.0017 J	ND(0.050)
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	R	R
4-Methyl-2-pentanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.10)	0.0089 J	ND(0.10)	ND(0.10)	ND(0.10)	0.0090 J	ND(0.10)	R	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00029 J	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	0.000081 J	0.00022 J	0.00072 J	ND(0.050)	0.00021 J	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00019 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010 J)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	0.00018 JB	0.00020 JB	0.00022 JB	0.00017 JB	0.00034 J	0.00045 J	0.00055 J	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	0.00015 J	0.00011 J	0.000086 J	0.000091 J	0.00020 J	0.00017 J	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Quench Pit TW-229S1 02/02/95	Quench Pit TW-229WT 01/31/95	Quench Pit TW-231WT 01/31/95	Railyard Area MW-138WT 07/28/95	Railyard Area MW-138WT 06/10/96	Railyard Area TW-240WT 02/06/95	Saginaw River Area B-7BAUG 07/17/95	Saginaw River Area B-7BAUG 06/11/96
Volatile Organics									
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	R	R	R	ND(0.050)	ND(0.050)	R [R]	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Acetone	mg/L	0.022 J	ND(0.050 J)	R	ND(0.050 J)	0.033 J	ND(0.050 J) [ND(0.050 J)]	ND(0.050)	ND(0.10)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030) [ND(0.0030)]	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

9/27/2007

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area B-7CAUG 07/17/95	Saginaw River Area B-7CAUG 06/11/96	Saginaw River Area B-7R 07/17/95	Saginaw River Area B-7R 06/13/96	Saginaw River Area MW-6CAUG 07/13/95	Saginaw River Area MW-6CAUG 06/09/96	Saginaw River Area MW-6CAUG 05/22/00
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	R	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	NA
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	NA
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	NA
1,4-Dioxane	mg/L	NA	NA	R	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.0050 J)	ND(0.050) [ND(0.050)]	ND(0.10 J)	ND(0.050)	ND(0.010)
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050) [ND(0.050)]	ND(0.10 J)	ND(0.050)	ND(0.010)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050) [ND(0.050)]	ND(0.10 J)	ND(0.050)	ND(0.010)
Acetone	mg/L	ND(0.050)	0.0059 J	ND(0.010 J)	ND(0.10) [ND(0.10)]	ND(0.10 J)	ND(0.10)	ND(0.010)
Acrolein	mg/L	NA	NA	R	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	0.00041 J [ND(0.0050)]	0.0060 J (IDW)	0.0014 J	0.00051 JB
Carbon Disulfide	mg/L	ND(0.050)	0.0023 J	ND(0.0010)	ND(0.050) [ND(0.050)]	ND(0.10 J)	ND(0.050)	0.00026 J
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.00050)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.010 J	0.0026	0.0022
Isobutanol	mg/L	NA	NA	R	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050) [ND(0.0050)]	ND(0.0020 J)	ND(0.0050)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	R	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.043 J	0.0078	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	ND(0.0010)	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020 J)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0010)	ND(0.0030) [ND(0.0030)]	0.056 J	0.015	0.013

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-6DAUG 07/13/95	Saginaw River Area MW-6DAUG 06/09/96	Saginaw River Area MW-107S1 07/12/95	Saginaw River Area MW-107S1 06/07/96	Saginaw River Area MW-107S2 07/12/95	Saginaw River Area MW-107S2 06/07/96	Saginaw River Area MW-107WT 07/12/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	0.00042 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	R	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050 J)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.10)	ND(0.050)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	0.00083 J	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-107WT 06/07/96	Saginaw River Area MW-108S1 07/13/95	Saginaw River Area MW-108S1 06/08/96	Saginaw River Area MW-108S2 07/13/95	Saginaw River Area MW-108S2 06/08/96	Saginaw River Area MW-108S3 07/13/95	Saginaw River Area MW-108S3 06/08/96
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050)
2-Hexanone	mg/L	ND(0.050)	R	ND(0.050)	R	ND(0.050)	R	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.10)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.10)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-108S4 07/13/95	Saginaw River Area MW-108S4 06/08/96	Saginaw River Area MW-108WT 07/13/95	Saginaw River Area MW-108WT 06/08/96	Saginaw River Area MW-109WT 07/13/95	Saginaw River Area MW-109WT 06/12/96	Saginaw River Area MW-110WT 06/12/96
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	R	ND(0.050)	R	ND(0.050)	R	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.10)	ND(0.10)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	0.00040 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

9/27/2007

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-110WT 12/10/97	Saginaw River Area MW-111S1 07/14/95	Saginaw River Area MW-111S1 06/12/96	Saginaw River Area MW-111S2 07/13/95	Saginaw River Area MW-111S2 06/10/96	Saginaw River Area MW-111S3 07/13/95	Saginaw River Area MW-111S3 06/10/96
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,1-Dichloroethene	mg/L	0.0052	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	0.012	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	3.9	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	0.014	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(1.0 J)	ND(0.050 J)	ND(0.050)	ND(0.050 J) [ND(0.050 J)]	ND(0.050)	0.012 J	0.0042 J
2-Hexanone	mg/L	ND(1.0 J)	R	ND(0.050)	R [R]	ND(0.050)	R	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(1.0)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.10)	ND(0.050)
Acetone	mg/L	ND(1.0)	ND(0.050)	ND(0.10)	ND(0.050) [ND(0.050)]	ND(0.10)	0.064 J	0.042 J
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.50)	ND(0.0010)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0020)	ND(0.0050)
Carbon Disulfide	mg/L	ND(0.50)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.10)	0.0058 J
Chlorobenzene	mg/L	0.20 (IDW)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Chloroethane	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Chloroform	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Chloromethane	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Ethylbenzene	mg/L	0.012	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.50)	ND(0.0010)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0020)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Toluene	mg/L	0.0079	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Vinyl Chloride	mg/L	3.4 (GCC, IDW)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0020)	ND(0.0010)
Total Xylenes	mg/L	0.0042	ND(0.0030)	ND(0.0030)	ND(0.0030) [ND(0.0030)]	ND(0.0030)	ND(0.0060)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111S4 07/14/95	Saginaw River Area MW-111S4 06/10/96	Saginaw River Area MW-111WT 07/14/95	Saginaw River Area MW-111WT 06/12/96	Saginaw River Area MW-112WT 07/17/95	Saginaw River Area MW-112WT 06/12/96	Saginaw River Area MW-113WT 07/17/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	R	ND(0.050)	R	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	0.0078 J	0.021 J	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.10)	ND(0.050)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	0.0032 J	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	0.012	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-113WT 06/13/96	Saginaw River Area MW-114S1 07/17/95	Saginaw River Area MW-114S1 06/07/96	Saginaw River Area MW-114S2 07/17/95	Saginaw River Area MW-114S2 06/07/96	Saginaw River Area MW-114S3 07/17/95	Saginaw River Area MW-114S3 06/07/96
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	ND(0.050)	R	ND(0.050)	R	ND(0.050)	R	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.10)	ND(0.050 J)	ND(0.10)	ND(0.050 J)	ND(0.10)	ND(0.050 J)	ND(0.10)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010 J)	ND(0.0010)	ND(0.0010 J)	ND(0.0010)	ND(0.0010 J)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-114S4 07/17/95	Saginaw River Area MW-114S4 06/07/96	Saginaw River Area MW-114WT 06/08/96	Saginaw River Area MW-114WT 12/11/97	Saginaw River Area MW-149WT 06/12/96	Saginaw River Area TW-210S1 02/15/95	Saginaw River Area TW-210S2 02/15/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)
2-Hexanone	mg/L	R	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050 J)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050 J)	ND(0.10)	ND(0.10)	ND(0.10 J)	ND(0.10)	ND(0.050)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	0.00064 J	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010 J)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-210WT 02/14/95	Saginaw River Area TW-211S1 02/15/95	Saginaw River Area TW-211S2 02/16/95	Saginaw River Area TW-211WT 02/16/95	Saginaw River Area TW-212S1 02/15/95	Saginaw River Area TW-212S2 02/16/95	Saginaw River Area TW-212WT 02/15/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050 J) [ND(0.050 J)]	ND(0.050 J)	0.0044 J	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
2-Hexanone	mg/L	ND(0.050)	ND(0.050 J) [ND(0.050 J)]	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050)	ND(0.050 J) [ND(0.050 J)]	ND(0.050 J)	0.013 JB	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050) [ND(0.050)]	0.0018 J	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030) [ND(0.0030)]	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-213S1 02/16/95	Saginaw River Area TW-213S2 02/17/95	Saginaw River Area TW-213WT 02/17/95	Saginaw River Area X-4AR 07/24/95	Saginaw River Area X-4AR 06/09/96	Saginaw River Area X-4CAUG 07/24/95	Saginaw River Area X-4CAUG 06/08/96
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050 J)	0.0030 J	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050)
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050 J)	ND(0.0026 J)	ND(0.0074 J)	ND(0.050 J)	ND(0.10)	ND(0.050 J)	ND(0.10)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0050)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)	ND(0.0050)	ND(0.0010 J)	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area X-9AR 07/24/95	Saginaw River Area X-9AR 06/09/96	Saginaw River Area X-9AR 12/15/06	Saginaw River Area X-9BR 07/24/95	Saginaw River Area X-9BR 06/08/96	Saginaw River Area X-9BR 12/15/06	Saginaw River Area X-9CAUG 07/24/95
Volatile Organics								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.025)	ND(0.050 J)	ND(0.050)	ND(0.025)	ND(0.050 J)
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050 J)	ND(0.10)	ND(0.025 J)	ND(0.050 J)	ND(0.10)	ND(0.025 J)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	ND(0.0050)	NA	NA	ND(0.0050)	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	ND(0.0050)	NA	NA	ND(0.0050)	NA
Methylene Chloride	mg/L	ND(0.0010 J)	ND(0.0050)	ND(0.0050)	ND(0.0010 J)	ND(0.0050)	ND(0.0050)	ND(0.0010 J)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0020)	ND(0.0030)	ND(0.0030)	ND(0.0020)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area X-9CAUG 06/08/96	Secondary Settling Pond MW-115S1 07/15/95	Secondary Settling Pond MW-115S1 06/07/96	Secondary Settling Pond MW-115S2 07/15/95	Secondary Settling Pond MW-115S3 07/15/95	Secondary Settling Pond MW-115WT 07/15/95
Volatile Organics							
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050 J)	NA	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.10)	ND(0.050 J)	NA	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0050)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	NA	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-116S1 07/15/95	Secondary Settling Pond MW-116S2 07/15/95	Secondary Settling Pond MW-116WT 07/15/95	Secondary Settling Pond MW-131S1 07/27/95	Secondary Settling Pond MW-131S2 07/27/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050) [ND(0.050)]
2-Hexanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	R	R [R]
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
Acetone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	ND(0.050) [ND(0.050)]
Acrolein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030) [ND(0.0030)]

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-131S2 06/06/96	Secondary Settling Pond MW-131WT 07/27/95	Secondary Settling Pond MW-150WT 06/13/96	Secondary Settling Pond MW-184WT 08/17/00	Secondary Settling Pond TW-214S1 01/27/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloropropane	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.010) [ND(0.010)]	ND(0.050)
2-Hexanone	mg/L	NA	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.010) [ND(0.010)]	ND(0.050)
4-Methyl-2-pentanone	mg/L	NA	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.0050) [ND(0.0050)]	ND(0.050)
Acetone	mg/L	NA	ND(0.050)	ND(0.10) [ND(0.10)]	ND(0.010) [ND(0.010)]	ND(0.050)
Acrolein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	NA	ND(0.0010)	ND(0.0050) [ND(0.0050)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Disulfide	mg/L	NA	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.0010) [ND(0.0010)]	ND(0.050)
Chlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroethane	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroform	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloromethane	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.00050) [ND(0.00050)]	ND(0.0010)
Ethylbenzene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	ND(0.0010)	ND(0.0050) [ND(0.0050)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Tetrachloroethene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Vinyl Chloride	mg/L	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Total Xylenes	mg/L	NA	ND(0.0030)	ND(0.0030) [ND(0.0030)]	ND(0.0010) [ND(0.0010)]	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond TW-214S2 01/27/95	Secondary Settling Pond TW-214WT 01/26/95	Secondary Settling Pond TW-215S1 01/27/95	Secondary Settling Pond TW-215S2 01/27/95	Secondary Settling Pond TW-215S3 01/27/95
Volatile Organics						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Hexanone	mg/L	R	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acrofein	mg/L	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0019
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond TW-215WT 01/26/95	UST 4 T04-B103 07/10/92	UST 4 T04-B104 07/10/92	UST 4 T04-B105 07/10/92	UST 4 T04-B106 07/10/92	UST 4 T04-B107 07/13/92	UST 4 UST4-MW1 06/08/94	UST 4 UST4-MW2 06/08/94	UST 4 UST4-MW3 06/08/94	UST 4 UST4-MW4 06/08/94	UST 4 UST4-MWS1 07/27/95
Volatile Organics												
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050 J)
2-Hexanone	mg/L	ND(0.050)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.050)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Acetone	mg/L	ND(0.050)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050 J)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.022 (IDW)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Chlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Chloroform	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Chloromethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	0.073	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0015	0.0056	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Methylene Chloride	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0080	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)
Total Xylenes	mg/L	ND(0.0030)	0.12	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0030)	ND(0.0030)	ND(0.0030)	0.028	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 4 UST-MWS1 06/10/96	UST 4 UST-MWS2 07/26/95	UST 4 UST-MWS2 06/10/96	UST 7 BBL-MW1 06/01/96	UST 7 BBL-MW1 06/20/96	UST 7 BBL-MW1 07/31/98	UST 7 BBL-MW1 10/01/98	UST 7 BBL-MW1 10/27/98	UST 7 BBL-MW1 01/01/99	UST 7 BBL-MW1 01/28/99	UST 7 BBL-MW1 04/01/99	UST 7 BBL-MW1 04/12/99
Volatile Organics													
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	0.65 (IDW)	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	0.24 (IDW)	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0050)	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050)	ND(0.050)	NA	NA	ND(1.2)	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	ND(0.050)	R	NA	NA	ND(1.2)	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ND(0.050)	ND(0.050)	NA	NA	ND(1.2)	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	ND(0.10)	ND(0.050)	NA	NA	ND(2.5)	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0050)	0.0018	NA	0.016 (IDW)	0.016 J (IDW)	0.013 (IDW)	0.010 (IDW)	0.010 (IDW)	0.026 (IDW)	0.026 (IDW)	0.020 (IDW)	0.020 (IDW)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	NA	NA	ND(1.2)	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	0.13 (IDW)	0.13 (IDW)	0.013	0.030	0.030	0.032	0.032	0.030	0.030
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	ND(0.0010)	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	NA	ND(0.025)	ND(0.025)	ND(0.0010)	0.0020	0.0020	0.0030	0.0030	ND(0.020)	ND(0.020)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.025)	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	NA	0.21	0.21	0.010	0.045	0.045	0.054	0.054	0.050	0.050

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 07/01/99	UST 7 BBL-MW1 07/14/99	UST 7 BBL-MW1 10/01/99	UST 7 BBL-MW1 10/22/99	UST 7 BBL-MW1 01/01/00	UST 7 BBL-MW1 05/01/00	UST 7 BBL-MW1 05/18/00	UST 7 BBL-MW1 08/01/00
Volatile Organics									
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	0.055	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	0.018	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	0.019 J	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	ND(0.050)	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	0.011 J	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	ND(0.071)	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.027 (IDW)	0.027 (IDW)	0.0060 (IDW)	0.0060 (IDW)	0.0040 [0.0050]	0.0081 (IDW)	0.0081 (IDW)	0.0030 [ND(0.0010)]
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0025)	NA
Ethylbenzene	mg/L	0.017	0.017	0.0030	0.0030	0.0050 [0.0050]	0.010	0.010	0.0020 [ND(0.0010)]
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Toluene	mg/L	0.0050	0.0050	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.00077 J	ND(0.0050)	ND(0.0010) [ND(0.0010)]
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Total Xylenes	mg/L	0.020	0.020	0.0020	0.0020	0.0050 [0.0050]	0.015	0.015	0.0020 [ND(0.0010)]

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 08/23/00	UST 7 BBL-MW1 10/01/00	UST 7 BBL-MW1 03/01/01	UST 7 BBL-MW1 05/01/01	UST 7 BBL-MW1 08/01/01	UST 7 BBL-MW1 02/11/02	UST 7 BBL-MW1 08/02/02			
Volatile Organics											
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA			
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA			
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA			
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA			
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA			
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA			
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA			
Benzene	mg/L	0.0030 [ND(0.0010)]	0.017 (IDW)	0.014 (IDW)	0.015 (IDW)	0.014 (IDW)	0.018 (IDW)	0.018 (IDW)	0.053 (IDW)	0.0060 (IDW)	0.0070 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	0.0020 [ND(0.0010)]	0.022	0.012 [0.013]	0.0090	0.013 [0.013]	0.025	0.0020 [0.0020]			
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	0.0020 [ND(0.0010)]	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	ND(0.0010) [ND(0.0010)]	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010) [ND(0.0010)]	0.0020	0.0010 [0.0010]	ND(0.0010)	ND(0.0010)	0.0030	ND(0.0010) [ND(0.0010)]			
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	0.0020 [ND(0.0010)]	0.036	0.015 [0.017]	0.0090	0.015 [0.015]	0.028	0.0020 [0.0020]			

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 03/03/03	UST 7 BBL-MW1 08/03/03	UST 7 BBL-MW1 02/04/04	UST 7 BBL-MW1 08/04/04	UST 7 BBL-MW1 02/05/05	UST 7 BBL-MW1 02/22/05	UST 7 BBL-MW1 08/05/05	UST 7 BBL-MW1 08/22/05	
Volatile Organics										
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	0.026	NA	0.0042	
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	0.011	NA	0.0067	
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	mg/L	0.023 (IDW)	0.023 (IDW)	0.021 (IDW)	0.029 (IDW)	0.029 (IDW)	0.033 (IDW)	0.032 (IDW)	0.036 (IDW)	0.037 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Chloroethane	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Chloroform	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Chloromethane	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Ethylbenzene	mg/L	0.0040	0.0040 [0.0040]	0.013 [0.013]	0.019 [0.020]	0.027	0.027	0.025	0.025	
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	0.031	NA	0.029	
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	0.011	NA	ND(0.0067)	
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	ND(0.012)	NA	ND(0.017)	
Naphthalene	mg/L	NA	NA	NA	NA	NA	ND(0.012)	NA	ND(0.017)	
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	0.0073	NA	0.0080	
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	0.10	NA	0.097	
o-Xylene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	0.0050	NA	0.0051	
Styrene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Toluene	mg/L	0.0020	0.0020 [0.0020]	0.0015 J [0.0015 J]	0.0016 [0.0017]	ND(0.0025)	ND(0.0025)	ND(0.0033)	ND(0.0033)	
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	
Trichloroethene	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	ND(0.0025)	NA	ND(0.0033)	
Total Xylenes	mg/L	0.0030	0.0040 [0.0040]	0.0074 [0.0073]	0.0068 [0.0075]	0.011	0.011	ND(0.0067)	ND(0.0067)	

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW2 06/18/96	UST 7 BBL-MW2 05/01/00	UST 7 BBL-MW2 05/19/00	UST 7 BBL-MW3 06/18/96	UST 7 BBL-MW3 05/01/00	UST 7 BBL-MW3 05/17/00	UST 7 BBL-MW3 02/06/06	UST 7 BBL-MW3 08/06/06	UST 7 BBL-MW4 06/01/96	UST 7 BBL-MW4 06/18/96
Volatile Organics											
1,1,1-Trichloroethane	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.010) [ND(0.0062)]	NA	0.00021 J	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
1,2,4-Trimethylbenzene	mg/L	0.11 (IDW) [0.091 (IDW)]	NA	ND(0.0010)	ND(0.010)	NA	0.00039 J	NA	NA	NA	ND(0.0010)
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.010) [ND(0.0062)]	NA	NA	ND(0.010)	NA	NA	NA	NA	NA	ND(0.0010)
1,2-Dichloroethene (total)	mg/L	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	0.039 [0.033]	NA	ND(0.0010)	ND(0.010)	NA	0.00015 J	NA	NA	NA	ND(0.0010)
1,3-Dichlorobenzene	mg/L	ND(0.010) [ND(0.0062)]	NA	NA	ND(0.010)	NA	NA	NA	NA	NA	0.00097 J
1,4-Dichlorobenzene	mg/L	ND(0.010) [ND(0.0062)]	NA	NA	ND(0.010)	NA	NA	NA	NA	NA	0.0021
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.50) [ND(0.31)]	NA	ND(0.010 J)	ND(0.50)	NA	ND(0.010)	NA	NA	NA	ND(0.050)
2-Hexanone	mg/L	ND(0.50) [ND(0.31)]	NA	ND(0.010 J)	ND(0.50)	NA	ND(0.010)	NA	NA	NA	ND(0.050)
4-Methyl-2-pentanone	mg/L	ND(0.50) [ND(0.31)]	NA	0.0044 J	ND(0.50)	NA	ND(0.010 J)	NA	NA	NA	ND(0.050)
Acetone	mg/L	ND(1.0) [ND(0.62)]	NA	ND(0.010)	ND(1.0)	NA	ND(0.010)	NA	NA	NA	ND(0.10)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.0078 J (IDW) [0.0072 J (IDW)]	0.026 (IDW)	0.026 (IDW)	0.091 (IDW)	0.018 B (IDW)	0.018 B (IDW)	0.036 (IDW)	0.044 (IDW)	0.012 (IDW)	0.012 (IDW)
Carbon Disulfide	mg/L	ND(0.50) [ND(0.31)]	NA	0.0013	ND(0.50)	NA	ND(0.0010)	NA	NA	NA	ND(0.050)
Chlorobenzene	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	0.013
Chloroethane	mg/L	ND(0.010) [ND(0.0062)]	NA	0.0038	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
Chloroform	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
Chloromethane	mg/L	ND(0.010) [ND(0.0062)]	NA	0.0014 J	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.00050)	ND(0.010)	NA	0.00061	NA	NA	NA	ND(0.0010)
Ethylbenzene	mg/L	0.093 (IDW) [0.092 (IDW)]	0.0092	0.0092	ND(0.010)	0.00023 J	0.00023 J	0.029	0.052	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	ND(0.050) [ND(0.031)]	NA	NA	ND(0.050)	NA	NA	NA	NA	NA	0.0017 J
Methylene Chloride	mg/L	ND(0.050) [ND(0.031)]	NA	ND(0.0010)	ND(0.050)	NA	ND(0.0010)	NA	NA	NA	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
Toluene	mg/L	ND(0.010) [ND(0.0062)]	0.0010	ND(0.0010)	ND(0.010)	0.00023 JB	ND(0.0010)	ND(0.0025)	ND(0.0040)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	0.0013	NA	NA	NA	ND(0.0010)
Vinyl Chloride	mg/L	ND(0.010) [ND(0.0062)]	NA	ND(0.0010)	ND(0.010)	NA	ND(0.0010)	NA	NA	NA	ND(0.0010)
Total Xylenes	mg/L	ND(0.035) [ND(0.028)]	0.0023	0.0023	ND(0.030)	0.0011	0.0011	0.010	0.017	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW4 07/31/98	UST 7 BBL-MW4 10/01/98	UST 7 BBL-MW4 10/27/98	UST 7 BBL-MW4 01/01/99	UST 7 BBL-MW4 01/28/99	UST 7 BBL-MW4 04/01/99	UST 7 BBL-MW4 04/12/99	UST 7 BBL-MW4 07/01/99	UST 7 BBL-MW4 07/14/99	UST 7 BBL-MW4 10/01/99	UST 7 BBL-MW4 10/22/99	UST 7 BBL-MW4 01/01/00
Volatile Organics													
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0050)	ND(0.0010)	ND(0.0010)	0.0020	0.0020	0.0010	0.0010	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0030	0.0030	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0030)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW4 05/01/00	UST 7 BBL-MW4 05/18/00	UST 7 BBL-MW4 08/01/00	UST 7 BBL-MW4 08/23/00	UST 7 BBL-MW4 10/01/00	UST 7 BBL-MW4 03/01/01	UST 7 BBL-MW4 05/01/01	UST 7 BBL-MW4 08/01/01	UST 7 BBL-MW4 02/11/02	UST 7 BBL-MW4 08/02/02	UST 7 BBL-MW4 03/03/03
Volatile Organics												
1,1,1-Trichloroethane	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	ND(0.010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	ND(0.010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	ND(0.010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	ND(0.010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.0016	0.0016	ND(0.0010)	ND(0.0010)	0.0010	0.0020	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	0.00091 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	ND(0.00050)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	0.00012 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW4 08/03/03	UST 7 BBL-MW4 02/04/04	UST 7 BBL-MW4 08/04/04	UST 7 BBL-MW4 02/22/05	UST 7 BBL-MW4 02/22/05	UST 7 BBL-MW4 08/05/05	UST 7 BBL-MW4 08/23/05	UST 7 BBL-MW4 02/06/06	UST 7 BBL-MW4 08/06/06	UST 7 BBL-MW5 06/19/96	UST 7 BBL-MW5 05/01/00	UST 7 BBL-MW5 05/19/00
Volatile Organics													
1,1,1-Trichloroethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
1,1-Dichloroethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
1,1-Dichloroethene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.010)	NA	ND(0.0050)
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0050)
1,2-Dichloropropane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	0.0037 J	NA	ND(0.0050)
1,3-Dichlorobenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.42)	NA	ND(0.050)
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.42)	NA	ND(0.050)
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.42)	NA	ND(0.050)
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.83)	NA	ND(0.050)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	0.00033 J	0.00025 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.29 (IDW)	0.089 (IDW)	0.089 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.42)	NA	ND(0.0050)
Chlorobenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
Chloroethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	0.0018 J
Chloroform	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
Chloromethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0025)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.029	0.0015 J	0.0015 J
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	ND(0.0050)	NA	NA	ND(0.0050)	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	ND(0.0020)	NA	NA	ND(0.0020)	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.042)	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	ND(0.0050)	NA	NA	ND(0.0050)	NA	NA	ND(0.042)	NA	ND(0.0050)
Naphthalene	mg/L	NA	NA	NA	ND(0.0050)	NA	NA	ND(0.0050)	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
Tetrachloroethene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0083)	0.0013 J	ND(0.0050)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
Vinyl Chloride	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	ND(0.0010)	NA	NA	ND(0.0083)	NA	ND(0.0050)
Total Xylenes	mg/L	ND(0.0010)	ND(0.0020)	ND(0.0010)	ND(0.0020)	ND(0.0030)	ND(0.0020)	ND(0.0020)	ND(0.0030)	ND(0.0030)	ND(0.044)	0.0062	0.0062

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135S1 07/21/95	UST 7 MW-135S2 07/21/95	UST 7 MW-135S3 07/21/95	UST 7 MW-135WT 07/21/95	UST 7 MW-135WT 06/18/96	UST 7 MW-135WT 07/31/98	UST 7 MW-135WT 10/01/98	UST 7 MW-135WT 10/27/98	UST 7 MW-135WT 01/01/99	UST 7 MW-135WT 01/28/99	UST 7 MW-135WT 04/01/99
Volatile Organics												
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	NA	NA	ND(0.050 J)	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ND(0.050 J)	ND(0.050)	ND(0.050 J)	ND(0.050 J)	ND(0.050)	NA	NA	NA	NA	NA	NA
Acetone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.10)	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0020 J	ND(0.0050)	0.0010	0.0010	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	ND(0.0010 J)	ND(0.0010)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010)	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	ND(0.0050)	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0020)	ND(0.0020)	ND(0.0010)	ND(0.0010)	ND(0.0010)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135WT 04/12/99	UST 7 MW-135WT 07/01/99	UST 7 MW-135WT 07/14/99	UST 7 MW-135WT 10/01/99	UST 7 MW-135WT 10/22/99	UST 7 MW-135WT 01/01/00	UST 7 MW-135WT 05/01/00	UST 7 MW-135WT 05/18/00	UST 7 MW-135WT 08/01/00	UST 7 MW-135WT 08/23/00	UST 7 MW-135WT 10/01/00
Volatile Organics												
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	0.0020	0.0020	0.0020	0.0020	ND(0.0010)	0.00030 J	0.00030 J	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	0.00082 J	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.00050)	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Toluene	mg/L	ND(0.0010)	0.0030	0.0030	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00012 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA	NA	NA
Total Xylenes	mg/L	ND(0.0010)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135WT 03/01/01	UST 7 MW-135WT 05/01/01	UST 7 MW-135WT 08/01/01	UST 7 MW-135WT 02/11/02	UST 7 MW-135WT 08/02/02	UST 7 MW-135WT 03/03/03	UST 7 MW-135WT 08/03/03	UST 7 MW-135WT 02/04/04	UST 7 MW-135WT 08/04/04	UST 7 MW-135WT 02/21/05
Volatile Organics											
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0020 B	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0020)	ND(0.0030)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135WT 02/22/05	UST 7 MW-135WT 08/05/05	UST 7 MW-135WT 08/23/05	UST 7 MW-135WT 02/06/06	UST 7 MW-135WT 08/06/06	UST 7 T07-B108 07/13/92	UST 7 T07-B109 07/13/92	UST 7 T07-B110 07/13/92	UST 7 T07-B111 07/13/92	UST 7 T07-B112 07/13/92
Volatile Organics											
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	1.4 (IDW)	0.31 (IDW)	ND(0.050)	17 (GCC IDW)	1.3 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	2.5 (IDW)	0.21 (IDW)	ND(0.050)	18 (IDW)	2.3 (IDW)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	ND(0.0050)	NA	0.0052	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	ND(0.0020)	NA	ND(0.0020)	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	NA	ND(0.0050)	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	ND(0.0050)	NA	ND(0.0050)	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	1.1 (IDW)	0.016	ND(0.050)	16 (IDW)	2.0 (IDW)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0030) [ND(0.0030)]	ND(0.0030) [ND(0.0030)]	9.1 (IDW)	0.40 (IDW)	0.16	100 (FE IDW)	11 (IDW)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-1 06/19/96	UST 7 UST7-1 05/01/00	UST 7 UST7-1 05/18/00	UST 7 UST7-2 06/01/94	UST 7 UST7-2 06/08/94	UST 7 UST7-2 06/01/96	UST 7 UST7-2 06/19/96	UST 7 UST7-2 07/31/98	UST 7 UST7-2 10/01/98	UST 7 UST7-2 10/27/98	UST 7 UST7-2 01/01/99	UST 7 UST7-2 01/28/99
Volatile Organics													
1,1,1-Trichloroethane	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	1.7 (IDW)	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.025)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	ND(0.0050)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	0.45 (IDW)	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.025)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	ND(0.025)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(1.2)	NA	0.0042 J	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA
2-Hexanone	mg/L	ND(1.2)	NA	ND(0.050)	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ND(1.2)	NA	ND(0.050)	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA
Acetone	mg/L	ND(2.5)	NA	ND(0.050)	NA	NA	NA	ND(12)	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.29 (IDW)	0.097 (IDW)	0.097 (IDW)	2.1 (IDW)	2.1 (IDW)	0.95 (IDW)	0.95 (IDW)	0.0060 (IDW)	ND(0.0010)	ND(0.0010)	0.0050	0.0050
Carbon Disulfide	mg/L	ND(1.2)	NA	ND(0.0050)	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Chloroethane	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Chloroform	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Chloromethane	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	ND(0.025)	NA	ND(0.0025)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.025)	ND(0.0050)	ND(0.0050)	ND(0.10)	ND(0.10)	1.7 (IDW)	1.7 (IDW)	0.017	0.0020	0.0020	0.023	0.023
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	ND(0.12)	NA	NA	NA	NA	NA	ND(0.62)	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.12)	NA	ND(0.0050)	NA	NA	NA	ND(0.62)	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.025)	0.00068 J	ND(0.0050)	3.1 (IDW)	3.1 (IDW)	ND(0.12)	ND(0.12)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	ND(0.025)	NA	ND(0.0050)	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.075)	ND(0.0050)	ND(0.0050)	9.8 (IDW)	9.8 (IDW)	3.6 (IDW)	3.6 (IDW)	0.0060	ND(0.0020)	ND(0.0020)	0.0070	0.0070

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 04/01/99	UST 7 UST7-2 04/12/99	UST 7 UST7-2 07/01/99	UST 7 UST7-2 07/14/99	UST 7 UST7-2 10/01/99	UST 7 UST7-2 10/22/99	UST 7 UST7-2 01/01/00	UST 7 UST7-2 05/01/00	UST 7 UST7-2 05/17/00
Volatile Organics										
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	1.5 (IDW)
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.75 (IDW)
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.50)
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.50)
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.50)
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.50)
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.010 (IDW) [ND(0.010)]	0.010 (IDW) [ND(0.010)]	0.0020 [0.0050]	1.5 (IDW)	1.5 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.025)
Ethylbenzene	mg/L	0.040	0.040	0.020	0.020	0.020 [0.020]	0.020 [0.020]	ND(0.0010) [0.0050]	1.2 (IDW)	1.2 (IDW)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Toluene	mg/L	ND(0.010)	ND(0.010)	0.020	0.020	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]	ND(0.0010) [ND(0.0010)]	0.025 J	0.025 J
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.050)
Total Xylenes	mg/L	0.020	0.020	0.010	0.010	0.010 [0.010]	0.010 [0.010]	0.0010 [0.0050]	1.2 (IDW)	1.2 (IDW)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 08/01/00	UST 7 UST7-2 08/23/00	UST 7 UST7-2 10/01/00	UST 7 UST7-2 03/01/01	UST 7 UST7-2 05/01/01	UST 7 UST7-2 08/01/01	UST 7 UST7-2 02/11/02	UST 7 UST7-2 08/02/02	UST 7 UST7-2 03/03/03	
Volatile Organics											
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	mg/L	0.0040	0.0040	0.050 (IDW)	0.096 (IDW)	0.11 (IDW)	0.0070 (IDW)	0.17 (IDW)	0.047 (IDW)	ND(0.0010) [ND(0.0010)]	0.067 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethylbenzene	mg/L	0.0010	0.0010	0.0030	0.0090 [0.0090]	ND(0.0010)	ND(0.050)	0.0010	ND(0.0010) [ND(0.0010)]	ND(0.0010)	
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
m&p-Xylene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
o-Xylene	mg/L	NA	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Toluene	mg/L	ND(0.0010)	ND(0.0010)	0.0010	0.0010 [ND(0.0050)]	ND(0.0010)	ND(0.050)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.0010	
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Xylenes	mg/L	ND(0.0010)	ND(0.0010)	0.0030	0.0070 [0.0080]	ND(0.0010)	ND(0.050)	0.0030	ND(0.0010) [ND(0.0010)]	0.0020	

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 08/03/03	UST 7 UST7-2 02/04/04	UST 7 UST7-2 08/04/04	UST 7 UST7-2 02/21/05	UST 7 UST7-2 02/22/05	UST 7 UST7-2 08/05/05	UST 7 UST7-2 08/23/05	UST 7 UST7-2 02/06/06	UST 7 UST7-2 08/06/06	UST 7 UST7-3R 07/31/98	UST 7 UST7-3R 10/01/98	UST 7 UST7-3R 10/27/98
Volatile Organics													
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	0.21 (IDW)	NA	0.28 (IDW)	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.12 (IDW) [0.13 (IDW)]	0.85 (IDW)	2.1 (IDW)	1.6 (IDW)	1.6 (IDW)	2.4 (IDW)	2.4 (IDW)	1.9 (IDW)	2.3 (IDW)	0.014 (IDW)	0.012 (IDW)	0.012 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010) [0.0010]	0.12 (IDW)	0.98 (IDW)	0.42 (IDW)	0.42 (IDW)	0.61 (IDW)	0.61 (IDW)	0.45 (IDW)	0.61 (IDW)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	ND(0.29)	NA	ND(0.31)	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	0.17	NA	0.21	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	ND(0.29)	NA	ND(0.31)	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	ND(0.29)	NA	ND(0.31)	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	0.18	NA	0.27 (IDW)	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Toluene	mg/L	0.0020 [0.0020]	0.012 J	0.039 J	0.059	ND(0.059)	ND(0.062)	ND(0.062)	ND(0.056)	ND(0.10)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	ND(0.059)	NA	ND(0.062)	NA	NA	NA	NA	NA
Total Xylenes	mg/L	0.0020 [0.0030]	0.097	0.40 (IDW)	0.17	0.17	0.21	0.21	ND(0.17)	ND(0.30)	ND(0.0030)	ND(0.0020)	ND(0.0020)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-3R 01/01/99	UST 7 UST7-3R 01/28/99	UST 7 UST7-3R 04/01/99	UST 7 UST7-3R 04/12/99	UST 7 UST7-3R 07/01/99	UST 7 UST7-3R 07/14/99	UST 7 UST7-3R 10/01/99	UST 7 UST7-3R 10/22/99	UST 7 UST7-3R 01/01/00	UST 7 UST7-3R 05/01/00	UST 7 UST7-3R 05/19/00	UST 7 UST7-3R 08/01/00
Volatile Organics													
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.010)	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.0050	0.0050	0.018 (IDW)	0.018 (IDW)	0.024 (IDW)	0.024 (IDW)	0.050 (IDW)	0.050 (IDW)	0.030 (IDW)	0.013 (IDW)	0.013 (IDW)	0.028 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00050)	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00033 J	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0020	0.0020	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00012 J	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Total Xylenes	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0010)	ND(0.0010)	ND(0.0010)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-3R 08/23/00	UST 7 UST7-3R 10/01/00	UST 7 UST7-3R 03/01/01	UST 7 UST7-3R 05/01/01	UST 7 UST7-3R 08/01/01	UST 7 UST7-3R 02/11/02	UST 7 UST7-3R 08/02/02	UST 7 UST7-3R 03/03/03	UST 7 UST7-3R 08/03/03	UST 7 UST7-3R 02/04/04	UST 7 UST7-3R 08/04/04
Volatile Organics												
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.028 (IDW)	0.026 (IDW)	0.015 (IDW)	0.012 (IDW)	0.035 (IDW)	0.030 (IDW)	0.0060 (IDW)	0.030 (IDW)	0.0090 (IDW)	0.0093 (IDW)	0.016 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0020)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-3R 02/21/05	UST 7 UST7-3R 02/22/05	UST 7 UST7-3R 08/05/05	UST 7 UST7-3R 08/23/05	UST 7 UST7-3R 02/06/06	UST 7 UST7-3R 08/06/06	UST 7 UST7-4 06/01/94	UST 7 UST7-4 06/08/94	UST 7 UST7-4 06/01/96
Volatile Organics										
1,1,1-Trichloroethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.011 (IDW) [0.011 (IDW)]	0.011 (IDW) [0.011 (IDW)]	0.012 (IDW)	0.012 (IDW)	0.0033	0.0089 (IDW)	0.11 (IDW)	0.11 (IDW)	0.044 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0020)	ND(0.0020)	ND(0.0017)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	ND(0.0020) [ND(0.0020)]	NA	ND(0.0020)	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Styrene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0080	0.0081	ND(0.0017)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0030) [ND(0.0030)]	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0030)	ND(0.0030)	ND(0.0010)	ND(0.0010)	ND(0.0051)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 06/19/96	UST 7 UST7-4 07/31/98	UST 7 UST7-4 10/01/98	UST 7 UST7-4 10/27/98	UST 7 UST7-4 01/01/99	UST 7 UST7-4 01/28/99	UST 7 UST7-4 04/01/99	UST 7 UST7-4 04/12/99	UST 7 UST7-4 07/01/99	UST 7 UST7-4 07/14/99	UST 7 UST7-4 10/01/99
Volatile Organics												
1,1,1-Trichloroethane	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	ND(0.083)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	ND(0.083)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ND(0.083)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	ND(0.17)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.044 (IDW)	0.014 (IDW)	0.010 (IDW)	0.010 (IDW)	0.017 (IDW)	0.017 (IDW)	0.0070 (IDW)	0.0070 (IDW)	0.0040	0.0040	0.0040
Carbon Disulfide	mg/L	ND(0.083)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0017)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	0.0015 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0083)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0017)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0040	0.0040	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	ND(0.0017)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0051)	ND(0.0030)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	0.0010

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 10/22/99	UST 7 UST7-4 01/01/00	UST 7 UST7-4 05/01/00	UST 7 UST7-4 05/18/00	UST 7 UST7-4 08/01/00	UST 7 UST7-4 08/23/00	UST 7 UST7-4 10/01/00	UST 7 UST7-4 03/01/01	UST 7 UST7-4 05/01/01
Volatile Organics										
1,1,1-Trichloroethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	0.00014 J	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	0.00073 J	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	ND(0.010)	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	ND(0.010)	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	ND(0.010)	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.0040	0.0030	0.0060 (IDW)	0.0060 (IDW)	0.0030 [0.0030]	0.0030 [0.0030]	0.023 (IDW)	0.0020	0.0020
Carbon Disulfide	mg/L	NA	NA	NA	0.00022 J	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	ND(0.00050)	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	0.00018 J	0.00018 J	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	ND(0.0010) [ND(0.0010)]	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	ND(0.0010) [ND(0.0010)]	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	0.0010	0.00022 J	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	ND(0.0010)	NA	NA	NA	NA	NA
Total Xylenes	mg/L	0.0010	0.0010	0.00067 J	0.00067 J	ND(0.0010) [ND(0.0010)]	ND(0.0010) [ND(0.0010)]	ND(0.0010)	0.0010	ND(0.0010)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 08/01/01	UST 7 UST7-4 02/11/02	UST 7 UST7-4 08/02/02	UST 7 UST7-4 03/03/03	UST 7 UST7-4 08/03/03	UST 7 UST7-4 02/04/04	UST 7 UST7-4 08/04/04	UST 7 UST7-4 02/21/05	UST 7 UST7-4 02/22/05	UST 7 UST7-4 08/05/05
Volatile Organics											
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.0020	0.016 (IDW) [0.016 (IDW)]	0.0010	ND(0.0010) [ND(0.0010)]	0.0020	0.0039	0.00071 J	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Ethylbenzene	mg/L	ND(0.0010)	0.0020 [0.0030]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0020)	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0050)	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0011	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	0.00025 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0010)	NA
Total Xylenes	mg/L	ND(0.0010)	0.0010 [0.0010]	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	0.00084 J	ND(0.0010)	ND(0.0030)	ND(0.0020)	ND(0.0020)

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 08/22/05	UST 7 UST7-4 02/06/06	UST 7 UST7-4 08/06/06	UST 7 UST7-5 06/01/94	UST 7 UST7-5 06/08/94	UST 7 UST7-5 06/01/96	UST 7 UST7-5 06/19/96	UST 7 UST7-5 07/31/98	UST 7 UST7-5 10/01/98	UST 7 UST7-5 10/27/98	UST 7 UST7-5 01/01/99	UST 7 UST7-5 01/28/99	UST 7 UST7-5 04/01/99
Volatile Organics														
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	2.4 (IDW)	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	0.65 (IDW)	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	ND(12)	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	3.7 (IDW)	3.7 (IDW)	1.6 (IDW)	1.6 (IDW)	1.9 (IDW)	1.4 (IDW)	1.4 (IDW)	0.19 (IDW)	0.19 (IDW)	0.40 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	ND(6.2)	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	13 (IDW)	13 (IDW)	1.8 (IDW)	1.8 (IDW)	ND(0.20)	1.3 (IDW)	1.3 (IDW)	0.68 (IDW)	0.68 (IDW)	0.89 (IDW)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	ND(0.0050)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	ND(0.0020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	ND(0.62)	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.0050)	NA	NA	NA	NA	NA	ND(0.62)	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	ND(0.0050)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	0.0011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	3.6 (IDW)	3.6 (IDW)	1.4 (IDW)	1.4 (IDW)	0.93 (IDW)	0.99 (IDW)	0.99 (IDW)	0.45	0.45	0.40
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	ND(0.0010)	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0020)	ND(0.0030)	ND(0.0030)	19 (IDW)	19 (IDW)	6.9 (IDW)	6.9 (IDW)	7.9 (IDW)	5.1 (IDW)	5.1 (IDW)	4.4 (IDW)	4.4 (IDW)	6.5 (IDW)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-5 04/12/99	UST 7 UST7-5 07/01/99	UST 7 UST7-5 07/14/99	UST 7 UST7-5 10/01/99	UST 7 UST7-5 10/22/99	UST 7 UST7-5 01/01/00	UST 7 UST7-5 05/01/00	UST 7 UST7-5 05/17/00	UST 7 UST7-5 08/01/00	UST 7 UST7-5 08/23/00
Volatile Organics											
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	0.19 (IDW) [0.26 (IDW)]	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [0.00061 J]	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.050) [ND(0.071)]	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.050) [ND(0.071)]	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.050) [ND(0.071)]	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.050) [ND(0.071)]	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.40 (IDW)	0.30 (IDW)	0.30 (IDW)	0.020 (IDW)	0.020 (IDW)	0.023 (IDW)	0.042 (IDW) [0.056 (IDW)]	0.042 (IDW) [0.056 (IDW)]	0.16 (IDW)	0.16 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	0.00062 J [ND(0.0071)]	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0025) [ND(0.0036)]	NA	NA
Ethylbenzene	mg/L	0.89 (IDW)	0.24 (IDW)	0.24 (IDW)	0.11 (IDW)	0.11 (IDW)	0.071	0.071 [0.083 (IDW)]	0.071 [0.083 (IDW)]	0.10 (IDW)	0.10 (IDW)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.41
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [0.0025 J]	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
Toluene	mg/L	0.40	0.24	0.24	0.020	0.020	0.0090	0.013 [0.013]	0.013 [0.013]	0.040	0.040
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.0050) [ND(0.0071)]	NA	NA
Total Xylenes	mg/L	6.5 (IDW)	3.5 (IDW)	3.5 (IDW)	0.86 (IDW)	0.86 (IDW)	0.35 (IDW)	0.33 (IDW) [0.36 (IDW)]	0.33 (IDW) [0.36 (IDW)]	0.53 (IDW)	0.53 (IDW)

See Notes in Table 15.

9/27/2007

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-5 10/01/00	UST 7 UST7-5 03/01/01	UST 7 UST7-5 05/01/01	UST 7 UST7-5 08/01/01	UST 7 UST7-5 02/11/02	UST 7 UST7-5 08/02/02	UST 7 UST7-5 03/03/03	UST 7 UST7-5 08/03/03	UST 7 UST7-5 02/04/04	UST 7 UST7-5 08/04/04	UST 7 UST7-5 02/21/05
Volatile Organics												
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.056 (IDW) [0.059 (IDW)]	0.20 (IDW)	ND(0.010)	0.16 (IDW)	0.0010	0.0070 (IDW)	0.33 (IDW)	0.47 (IDW)	0.042 (IDW)	0.12 (IDW)	0.14 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	0.027 [0.029]	0.10 (IDW)	0.010	0.13 (IDW)	0.0010	0.0070	0.38 (IDW)	0.34 (IDW)	0.062	0.096 (IDW)	0.078 (IDW)
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	0.030 [ND(0.050)]	ND(0.10)	ND(0.010)	ND(0.050)	ND(0.0010)	0.0030	0.080	0.10	0.027	0.029	0.034
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	0.86 (IDW) [0.87 (IDW)]	1.3 (IDW)	0.17	0.69 (IDW)	0.0070	0.085	1.4 (IDW)	1.7 (IDW)	0.36 (IDW)	0.46 (IDW)	0.45 (IDW)

See Notes in Table 15.

Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-5 02/21/05	UST 7 UST7-5 08/05/05	UST 7 UST7-5 08/22/05	UST 7 UST7-5 02/06/06	UST 7 UST7-5 08/06/06	UST 7 UST7-6 06/19/96	UST 7 UST7-MW1 06/08/94	UST 7 UST7-MW2 06/08/94	UST 7 UST7-MW3 06/08/94	UST 7 UST7-MW4 06/08/94	UST 7 UST7-MW5 06/08/94	UST 7 UST7-MW6 06/08/94
Volatile Organics													
1,1,1-Trichloroethane	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	0.20 (IDW)	NA	0.50 (IDW)	NA	NA	ND(0.0026)	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	0.086 (IDW)	NA	0.21 (IDW)	NA	NA	0.0013 J	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	ND(0.25)	NA	NA	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	0.14 (IDW)	0.34 (IDW)	0.34 (IDW)	0.39 (IDW)	0.43 (IDW)	0.069 (IDW)	0.029 (IDW)	2.1 (IDW)	0.0011	0.11 (IDW)	3.7 (IDW)	0.033 (IDW)
Carbon Disulfide	mg/L	NA	NA	NA	NA	NA	ND(0.12)	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	0.078 (IDW)	0.23 (IDW)	0.23 (IDW)	0.45 (IDW)	0.44 (IDW)	0.0020 J	0.0026	3.1 (IDW)	ND(0.0010)	0.0081	3.6 (IDW)	0.0080
Isobutanol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	ND(0.038)	NA	ND(0.10)	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	mg/L	0.28	NA	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	ND(0.012)	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/L	ND(0.038)	NA	ND(0.10)	NA	NA	ND(0.012)	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	0.038	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	0.17	NA	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Toluene	mg/L	0.034	0.086	0.086	0.042	0.063	ND(0.0025)	0.0011	ND(0.10)	ND(0.0010)	ND(0.0020)	13 (IDW)	0.010
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Vinyl Chloride	mg/L	ND(0.0077)	NA	ND(0.020)	NA	NA	ND(0.0025)	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	0.45 (IDW)	1.1 (IDW)	1.1 (IDW)	1.5 (IDW)	2.0 (IDW)	ND(0.0097)	ND(0.0010)	9.8 (IDW)	ND(0.0030)	0.021	19 (IDW)	0.037

See Notes in Table 15.

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Table 1. Volatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plan, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 8 UST8-MW1 06/08/94	UST 8 UST8-MW2 06/08/94	UST 8 UST8-MW3 06/08/94	UST 8 UST8-MW5 07/06/94
Volatile Organics					
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/L	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA
1,4-Dioxane	mg/L	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA
Acrolein	mg/L	NA	NA	NA	NA
Benzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	mg/L	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	mg/L	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA
m&p-Xylene	mg/L	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA
Methylene Chloride	mg/L	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA
n-Butylbenzene	mg/L	NA	NA	NA	NA
n-Propylbenzene	mg/L	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA
Propionitrile	mg/L	NA	NA	NA	NA
sec-Butylbenzene	mg/L	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA
Vinyl Chloride	mg/L	NA	NA	NA	NA
Total Xylenes	mg/L	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	FE	GAI	GCC	IDW	IGVIA	Center Street Area MW-4 07/29/95	Center Street Area MW-4 06/10/96	Center Street Area MW-4 05/18/00	Center Street Area MW-101WT 07/28/95
Semivolatile Organics										
1,3,5-Trinitrobenzene	mg/L	--	--	--	--	--	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--	--	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	{ID}	{ID}	170	2.1	{NLV}	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	{ID}	{ID}	10	0.47	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	{ID}	{ID}	48	0.21	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4-Dimethylphenol	mg/L	{ID}	{ID}	520	1	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	--	--	--	--	--	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	{ID}	{ID}	94	0.13	{ID}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	{ID}	{ID}	25 {S}	0.75	{ID}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	--	--	--	--	--	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	{ID}	{ID}	79	0.058	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	--	--	--	--	--	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	{ID}	{ID}	9.5	0.02 {M}	{NLV}	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	{ID}	{ID}	79	0.42	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	--	--	--	--	--	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	--	--	--	--	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	{ID}	{ID}	4.2 {S}	3.8	4.2 {S}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	{ID}	{ID}	0.043 {S}	0.043 {S}	0.043 {S}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	{ID}	{ID}	0.0094 {Q,S,AA}	0.0085 {Q}	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	{ID}	{ID}	0.001 {Q,M,AA}	0.005 {Q,A}	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	{ID}	{ID}	0.0015 {Q,S,AA}	0.0015 {Q,S,AA}	{ID}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	{ID}	{ID}	0.001 {M,A,A}	0.001 {M}	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	{ID}	{ID}	0.001 {Q,M,AA}	0.001 {Q,M}	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	{NA}	0.34 {S}	0.32 {AA}	0.006 {A}	{NLV}	0.023 {IDW}	ND(0.0050)	ND(0.0050)	0.00098 J
Carbazole	mg/L	{ID}	{ID}	7.4	0.35	{NLV}	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	{ID}	{ID}	0.0016 {Q,S,AA}	0.0016 {Q,S}	{ID}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	{ID}	{ID}	{ID}	{ID}	{ID}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	{NA}	{ID}	1,100 {S}	16	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	{NA}	{ID}	4,200 {S}	210	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	{NA}	{ID}	11 {S}	2.5	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	{ID}	{ID}	0.4	0.38	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	{ID}	{ID}	0.21 {S}	0.21 {S}	0.21 {S}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	{ID}	{ID}	2 {S}	2 {S}	2 {S}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	{ID}	{ID}	1.6	0.05 {A}	0.42	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	{ID}	{ID}	0.002 {Q,M,AA}	0.002 {Q,M}	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	{NA}	31 {S}	31 {S}	1.5	31 {S}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	{ID}	{ID}	0.2	0.001 {A}	{NLV}	ND(0.025)	ND(0.025)	ND(0.0010)	ND(0.025)
Phenanthrene	mg/L	{ID}	{ID}	1 {S}	0.15	1 {S}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	{NA}	{ID}	29,000	13	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	{ID}	{ID}	0.14 {S}	0.14 {S}	0.14 {S}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	{NA}	{ID}	810 {J}	1 {J}	{NLV}	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-101WT 06/05/96	Center Street Area MW-102S1 07/25/95	Center Street Area MW-102WT 07/25/95	Center Street Area MW-103S1 07/12/95	Center Street Area MW-103S1 06/04/96	Center Street Area MW-103S1 05/18/00	Center Street Area MW-103S2 07/12/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0060	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.020)	ND(0.025)	ND(0.0010)	ND(0.020)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00060 J
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-103WT 07/12/95	Center Street Area MW-104S1 07/12/95	Center Street Area MW-104S2 07/12/95	Center Street Area MW-104WT 07/12/95	Center Street Area MW-105S1 07/12/95	Center Street Area MW-105S2 07/12/95	Center Street Area MW-105WT 07/12/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)
Benzo(a)pyrene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.00060 J	ND(0.0050)	0.00080 J	0.00080 J	0.0012 J	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00050 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.025)	ND(0.020)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	0.0024 J	0.0011 J	ND(0.0050)	0.00060 J	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-106S1 07/12/95	Center Street Area MW-106S2 07/12/95	Center Street Area MW-106WT 07/12/95	Center Street Area MW-136S1 07/20/95	Center Street Area MW-136S2 07/20/95	Center Street Area MW-136S2 06/05/96	Center Street Area MW-136WT 07/20/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	0.0011 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	0.00070 J	0.00080 J	ND(0.00095)	ND(0.0014)	0.0029 J [ND(0.0050)]	ND(0.0040)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	0.0018 J
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0010 J	0.0014 J [0.0017 J]	0.0012 J
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-136WT 06/06/96	Center Street Area MW-140S1 07/20/95	Center Street Area MW-140S1 06/05/96	Center Street Area MW-140S2 07/20/95	Center Street Area MW-140S2 06/05/96	Center Street Area MW-140S2 05/17/00	Center Street Area MW-140WT 07/20/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020 J)	R	ND(0.020)	ND(0.020)	R	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	R	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	R	ND(0.020)	ND(0.020)	R	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050 J)	0.0012 J	ND(0.0050)	0.00070 J	ND(0.0050)	ND(0.0050)	0.019 (IDW)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00084 J	ND(0.0050)	ND(0.0050)	0.0010 J
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	R	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.0010)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-140WT 06/05/96	Center Street Area MW-140WT 05/17/00	Center Street Area MW-141WT 07/28/95	Center Street Area MW-145WT 07/28/95	Center Street Area MW-145WT 06/04/96	Center Street Area MW-146WT 07/28/95	Center Street Area MW-146WT 06/12/96
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	R	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.0050)	ND(0.010)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00091 J	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00063 J	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.012 (IDW)	ND(0.0050)	ND(0.0050)	0.00081 J	ND(0.0050)	0.0044 J	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	NA	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0043 J	0.0039 J
Pentachlorophenol	mg/L	ND(0.025)	ND(0.0010)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area TW-201WT 02/06/95	Center Street Area TW-203S1 05/23/95	Center Street Area TW-203S2 05/24/95	Center Street Area TW-203WT 02/03/95	Center Street Area TW-205S1 02/07/95	Center Street Area TW-205S2 02/07/95	Center Street Area TW-205WT 02/06/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0013 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0015 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0020 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0053 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0047 J (GCC)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0059 J (GCC, IDW)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0021 J (GCC, IDW)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0029 J (GCC, IDW)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.0035 J	ND(0.0050)	ND(0.0050)	ND(0.010)	0.012 (IDW)	0.0019 J	0.018 (IDW)
Carbazole	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0016 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0070 J (GCC, IDW)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0017 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	0.0040 J	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	0.00091 J	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.012	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0030 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0022 J (GCC, IDW)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0043 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)	ND(0.020)	ND(0.020)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0086 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	0.00076 J	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0094 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill B-4AR 07/25/95	Eastern Type III Landfill B-4BR 07/25/95	Eastern Type III Landfill B-4CAUG 07/25/95	Eastern Type III Landfill B-4CAUG 06/04/96	Eastern Type III Landfill B-4CAUG 05/23/00	Eastern Type III Landfill B-4DAUG 07/25/95
Semivolatile Organics							
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.10)	ND(1.0)	ND(5.0)	ND(0.025)	ND(0.050) [ND(0.050)]
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.050)	ND(0.0050) [ND(0.0050)]
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.010)	0.070 JD	0.56	0.057	ND(0.0050) [ND(0.0050)]
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.040)	ND(0.40)	ND(2.0)	ND(0.10)	ND(0.020) [ND(0.020)]
2-Chlorophenol	mg/L	ND(0.0050)	0.0024 J	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
2-Methylnaphthalene	mg/L	0.020	ND(0.010)	0.0018 J	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
2-Methylphenol	mg/L	ND(0.0050)	ND(0.010)	0.0075	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.040)	ND(0.40)	ND(2.0)	ND(0.10)	ND(0.020) [ND(0.020)]
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
4-Methylphenol	mg/L	0.00080 J	0.0044 J	0.78 D	5.0	0.40 #	0.0013 J [ND(0.0050)]
4-Nitrophenol	mg/L	ND(0.020)	ND(0.040)	ND(0.40)	ND(2.0)	ND(0.10)	ND(0.020) [ND(0.020)]
Acenaphthene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Anthracene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Carbazole	mg/L	ND(0.010)	ND(0.020)	ND(0.20)	ND(1.0)	ND(0.050)	ND(0.010) [ND(0.010)]
Chrysene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Dibenzofuran	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Diethylphthalate	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Fluoranthene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Fluorene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Naphthalene	mg/L	0.061	ND(0.010)	0.0034 J	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Pentachlorophenol	mg/L	ND(0.025)	ND(0.050)	ND(0.50)	ND(2.5)	ND(0.0050)	ND(0.025) [ND(0.025)]
Phenanthrene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Phenol	mg/L	0.0028 J	0.085	1.5 D	3.4	0.14	0.026 [0.018]
Pyrene	mg/L	ND(0.0050)	ND(0.010)	ND(0.10)	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]
Total Methylphenols	mg/L	ND(0.0050)	ND(0.010)	0.0075	ND(0.50)	ND(0.025)	ND(0.0050) [ND(0.0050)]

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill MW-133S1 07/20/95	Eastern Type III Landfill MW-133S2 07/20/95	Eastern Type III Landfill MW-133WT 07/20/95	Eastern Type III Landfill MW-134S1 07/20/95	Eastern Type III Landfill MW-134S2 07/20/95	Eastern Type III Landfill MW-134WT 07/20/95
Semivolatile Organics							
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050 J) [ND(0.0050)]	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0011)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050 J) [ND(0.0050)]	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area B-2BAUG 07/29/95	LNAPL Assessment Area B-2R 07/29/95	LNAPL Assessment Area B-2R 06/11/96	LNAPL Assessment Area B-2R 05/23/00	LNAPL Assessment Area MW-132S1 07/21/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	R	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.010)	ND(0.050)	ND(0.0050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	0.019 J (IDW)	ND(0.0050 J)	ND(0.0050)	ND(0.0010)
Carbazole	mg/L	ND(0.010)	NA	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.0010)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-132S1 06/07/96	LNAPL Assessment Area MW-132WT 07/21/95	LNAPL Assessment Area MW-132WT 06/06/96	LNAPL Assessment Area MW-147WT 07/30/95	LNAPL Assessment Area MW-151WT 10/20/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.50)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.020 J	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020 J)	ND(0.20)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	0.0013 J
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.10)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.25)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-152WT 10/20/95	LNAPL Assessment Area MW-152WT 06/05/96	LNAPL Assessment Area MW-153WT 10/20/95	LNAPL Assessment Area MW-154WT 10/19/95	LNAPL Assessment Area MW-154WT 06/13/96
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0038 J	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	0.0041 J	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.0018 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0031 J	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	0.0014 J	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	0.0027 J (IDW)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.012	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-155WT 10/19/95	LNAPL Assessment Area MW-156WT 10/20/95	LNAPL Assessment Area MW-156WT 06/07/96	LNAPL Assessment Area TW-239WT 02/02/95	Northern Drainage Channels B-5BAUG 07/12/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.50)	ND(0.050) [ND(0.050)]
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.20)	ND(0.020) [ND(0.020)]
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.018 J	ND(0.0050) [ND(0.0050)]
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.20)	ND(0.020) [ND(0.020)]
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.20)	ND(0.020) [ND(0.020)]
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Anthracene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
bis(2-Ethylhexyl)phthalate	mg/L	0.00082 J	0.0012 J [0.0087 (IDW)]	ND(0.0080)	ND(0.050)	0.0022 J [ND(0.0050)]
Carbazole	mg/L	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.050)	ND(0.010) [ND(0.010)]
Chrysene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Di-n-Butylphthalate	mg/L	ND(0.0050)	0.0012 J [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0052 J	ND(0.0050) [ND(0.0050)]
Fluorene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Naphthalene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.012 J	ND(0.0050) [ND(0.0050)]
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.20)	ND(0.020) [ND(0.020)]
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0094 J	ND(0.0050) [ND(0.0050)]
Phenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]
Pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0052 J	ND(0.0050) [ND(0.0050)]
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.050)	ND(0.0050) [ND(0.0050)]

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels B-5CAUG 07/12/95	Northern Drainage Channels B-5R 07/12/95	Northern Drainage Channels MW-5A 07/13/95	Northern Drainage Channels MW-5A 06/08/96	Northern Drainage Channels MW-5B 07/13/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	R	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.010)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	0.0014 J
Carbazole	mg/L	ND(0.010)	NA	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025 J)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels MW-5B 06/08/96	Northern Drainage Channels MW-6A 07/13/95	Northern Drainage Channels MW-6A 06/09/96	Northern Drainage Channels MW-6B 07/13/95	Northern Drainage Channels MW-6B 06/09/96
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	R	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.010)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050 J)	ND(0.0050)	0.0022 J	0.0040 J	ND(0.0050)
Carbazole	mg/L	ND(0.010)	NA	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0010 J	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels TW-206WT 02/07/95	Northern Drainage Channels TW-207WT 02/07/95	Northern Drainage Channels TW-208S1 02/14/95	Northern Drainage Channels TW-208S2 02/14/95	Northern Drainage Channels TW-208WT 02/14/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0017 J
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.0034 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00083 J
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	0.0018 J	0.0013 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	0.0013 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	0.00058 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0018 J
Pentachlorophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Phenanthrene	mg/L	0.00062 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0014 J
Phenol	mg/L	0.00058 J	ND(0.0050)	0.0025 J	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	0.00051 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00084 J
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels TW-209S1 02/14/95	Northern Drainage Channels TW-209S2 02/14/95	Northern Drainage Channels TW-209WT 02/14/95	Parking Lot Area/Buffer Basin B-1BAUG 07/20/95	Parking Lot Area/Buffer Basin B-1CAUG 07/20/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)	ND(0.0050 J)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050 J)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050 J)	0.0014 J	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.0066 (IDW)	ND(0.0050 J)	0.049 (IDW)	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050 J)	0.0017 J	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050 J)	0.00095 J	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050 J)	0.00084 J	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/Buffer Basin B-1DAUG 07/20/95	Parking Lot Area/Buffer Basin B-1R 07/20/95	Parking Lot Area/Buffer Basin MW-130S1 07/20/95	Parking Lot Area/Buffer Basin MW-130S2 07/20/95
Semivolatile Organics					
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050 J)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050 J)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/Buffer Basin MW-130S3 07/20/95	Parking Lot Area/Buffer Basin MW-130WT 07/20/95	Parking Lot Area/Buffer Basin MW-130WT 06/06/96	Previous Metal Feedstock B-6BAUG 07/21/95	Previous Metal Feedstock B-6CAUG 07/21/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0012)	ND(0.0050 J)	ND(0.00052)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Previous Metal Feedstock B-6DAUG 07/21/95	Previous Metal Feedstock B-6R 07/21/95	Quench Pit MW-137WT 07/28/95	Quench Pit QPTW-6 04/12/97	Quench Pit QPTW-7 04/12/97	Quench Pit QPTW-8 04/12/97	Quench Pit QPTW-9 04/12/97	Quench Pit QPTW-11 04/12/97	Quench Pit QPTW-12 04/12/97
Semivolatile Organics										
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050 J) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050) [ND(0.00053)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0014 J	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0013 J	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050 J) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

9/27/2007

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Quench Pit QPTW-13 04/12/97	Quench Pit TW-228S1 01/31/95	Quench Pit TW-228WT 01/31/95	Quench Pit TW-229S1 02/02/95	Quench Pit TW-229WT 01/31/95	Quench Pit TW-231WT 01/31/95	Railyard Area MW-138WT 07/28/95	Railyard Area MW-138WT 06/10/96	Railyard Area TW-240WT 02/06/95
Semivolatile Organics										
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.50 J)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0013 J	ND(0.050)	0.00054 J	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	0.00062 J	0.0035 J	0.011 (IDW)	0.0070 J (IDW)	0.029 (IDW)	0.00083 J	ND(0.0050)	0.0030 J [0.0050]
Carbazole	mg/L	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050) [ND(0.0050)]
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0058 J (GCC, IDW)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0041 J [0.0073]
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0017 J	0.014 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	0.00052 J	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Pentachlorophenol	mg/L	ND(0.025)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)	ND(0.025)	ND(0.025)	ND(0.020) [ND(0.020)]
Phenanthrene	mg/L	ND(0.0050)	0.00060 J	ND(0.0050)	0.0020 J	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00080 J	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.012 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area B-7BAUG 07/17/95	Saginaw River Area B-7BAUG 06/11/96	Saginaw River Area B-7CAUG 07/17/95	Saginaw River Area B-7CAUG 06/11/96	Saginaw River Area B-7R 07/17/95	Saginaw River Area B-7R 06/13/96	Saginaw River Area MW-6CAUG 07/13/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	R	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.010 J)	ND(0.050) [ND(0.050)]	R
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020 J)	ND(0.020) [ND(0.020)]	R
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	0.0030 J
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020 J)	ND(0.020) [ND(0.020)]	R
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
4-Nitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020 J)	ND(0.040)	ND(0.020 J)	ND(0.020) [ND(0.020)]	R
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.010 J)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	0.0060
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	NA	ND(0.010) [ND(0.010)]	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	0.0030 J
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.050)	ND(0.025 J)	ND(0.025) [ND(0.025)]	R
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	0.18 D	0.098	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	R
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050 J)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	R

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-6CAUG 06/09/96	Saginaw River Area MW-6DAUG 07/13/95	Saginaw River Area MW-6DAUG 06/09/96	Saginaw River Area MW-107S1 07/12/95	Saginaw River Area MW-107S1 06/07/96	Saginaw River Area MW-107S2 07/12/95	Saginaw River Area MW-107S2 06/07/96
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.0025 J	ND(0.0050)	ND(0.0050)	0.0090 (LDW)	ND(0.011)	0.0025 J	ND(0.0071)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025 J)	ND(0.025)	ND(0.020)	ND(0.025)	ND(0.020)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	0.013	0.065	0.0030 J	ND(0.0050)	ND(0.0050)	0.00060 J	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-107WT 07/12/95	Saginaw River Area MW-107WT 06/07/96	Saginaw River Area MW-108S1 07/13/95	Saginaw River Area MW-108S1 06/08/96	Saginaw River Area MW-108S2 07/13/95	Saginaw River Area MW-108S2 06/08/96	Saginaw River Area MW-108S3 07/13/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.00070 J	ND(0.0077)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025 J)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-108S3 06/08/96	Saginaw River Area MW-108S4 07/13/95	Saginaw River Area MW-108S4 06/08/96	Saginaw River Area MW-108WT 07/13/95	Saginaw River Area MW-108WT 06/08/96	Saginaw River Area MW-109WT 07/13/95	Saginaw River Area MW-109WT 06/12/96
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.059)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)	ND(0.023)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.023)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.023)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	0.0040 J	0.015 (IDW)	ND(0.0050)	ND(0.0050 J)	0.012 (IDW)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.011)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.020)	ND(0.025)	ND(0.029)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0059)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-110WT 06/12/96	Saginaw River Area MW-110WT 12/10/97	Saginaw River Area MW-111S1 07/14/95	Saginaw River Area MW-111S1 06/12/96	Saginaw River Area MW-111S2 07/13/95	Saginaw River Area MW-111S2 06/10/96
Semivolatile Organics							
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	0.012	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050)	0.0019 J	0.0089 (IDW)	ND(0.0050) [0.0011 J]	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.020)	ND(0.020)	ND(0.025)	ND(0.025 J) [ND(0.025 J)]	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J) [ND(0.0050 J)]	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111S3 07/13/95	Saginaw River Area MW-111S3 06/10/96	Saginaw River Area MW-111S3 06/29/99	Saginaw River Area MW-111S3 05/19/00	Saginaw River Area MW-111S4 07/14/95	Saginaw River Area MW-111S4 06/10/96	Saginaw River Area MW-111WT 07/14/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	R	ND(0.050)	R	ND(0.0050)	ND(0.050)	ND(0.10)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	R	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4-Dichlorophenol	mg/L	R	ND(0.0050)	R	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4-Dimethylphenol	mg/L	R	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2,4-Dinitrophenol	mg/L	R	ND(0.020)	R	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)
2-Chlorophenol	mg/L	R	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2-Methylphenol	mg/L	R	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
2-Nitrophenol	mg/L	R	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	R	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	R	ND(0.020)	R	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	R	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
4-Methylphenol	mg/L	R	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
4-Nitrophenol	mg/L	R	ND(0.020)	R	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)
Acenaphthene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Anthracene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.012 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	0.054 (IDW)
Carbazole	mg/L	ND(0.025)	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)
Chrysene	mg/L	ND(0.012 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Fluoranthene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Fluorene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Naphthalene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Pentachlorophenol	mg/L	R	ND(0.025)	R	ND(0.0010)	ND(0.020 J)	ND(0.050)	ND(0.020)
Phenanthrene	mg/L	ND(0.012)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
Phenol	mg/L	R	6.2 D	R	0.033	0.097 D	0.11 D	ND(0.0050)
Pyrene	mg/L	ND(0.012 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.010)	ND(0.0050)
Total Methylphenols	mg/L	R	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111WT 06/12/96	Saginaw River Area MW-111WT 05/19/00	Saginaw River Area MW-112WT 07/17/95	Saginaw River Area MW-112WT 06/12/96	Saginaw River Area MW-113WT 07/17/95	Saginaw River Area MW-113WT 06/13/96	Saginaw River Area MW-114S1 07/17/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	0.00071 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020 J)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0090 (IDW)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	0.0010 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.0010)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	0.0014 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-114S1 06/07/96	Saginaw River Area MW-114S2 07/17/95	Saginaw River Area MW-114S2 06/07/96	Saginaw River Area MW-114S3 07/17/95	Saginaw River Area MW-114S3 06/07/96	Saginaw River Area MW-114S4 07/17/95	Saginaw River Area MW-114S4 06/07/96
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020 J)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0076)	0.00063 J	ND(0.0050)	0.0018 J	ND(0.0050)	ND(0.0050)	ND(0.0068)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.044	0.027
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-114WT 06/08/96	Saginaw River Area MW-114WT 12/11/97	Saginaw River Area MW-149WT 06/12/96	Saginaw River Area TW-210S1 02/15/95	Saginaw River Area TW-210S2 02/15/95	Saginaw River Area TW-210WT 02/14/95	Saginaw River Area TW-211S1 02/15/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dinitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
4-Nitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	0.034 (IDV)	R	ND(0.0050)	R [ND(0.0050)]
Carbazole	mg/L	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.016	ND(0.0050)	0.0047 J	ND(0.0050) [ND(0.0050)]
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Pentachlorophenol	mg/L	ND(0.025)	ND(0.020)	ND(0.025)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-211S2 02/16/95	Saginaw River Area TW-211WT 02/16/95	Saginaw River Area TW-212S1 02/15/95	Saginaw River Area TW-212S2 02/16/95	Saginaw River Area TW-212WT 02/15/95	Saginaw River Area TW-213S1 02/16/95	Saginaw River Area TW-213S2 02/17/95
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	0.0020 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	0.0015 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.016 (IDW)	ND(0.0050)	ND(0.0050)	0.0010 J	ND(0.0050)	ND(0.0050)	0.00093 J
Carbazole	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	0.0029 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	0.0014 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0014 J	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-213WT 02/17/95	Saginaw River Area X-4AR 07/24/95	Saginaw River Area X-4AR 06/09/96	Saginaw River Area X-4CAUG 07/24/95	Saginaw River Area X-4CAUG 06/08/96	Saginaw River Area X-9AR 07/24/95	Saginaw River Area X-9AR 06/09/96
Semivolatile Organics								
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020 J)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)	ND(0.020)	ND(0.020 J)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.0018 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)
Carbazole	mg/L	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	0.0010 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area X-9BR 07/24/95	Saginaw River Area X-9BR 06/08/96	Saginaw River Area X-9BR 12/15/06	Saginaw River Area X-9CAUG 07/24/95	Saginaw River Area X-9CAUG 06/08/96	Secondary Settling Pond MW-115S1 07/15/95
Semivolatile Organics							
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	0.0011 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0064 (IDW)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	R	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0020)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.0050)	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0020)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	0.0047 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-115S1 06/07/96	Secondary Settling Pond MW-115S1 05/18/00	Secondary Settling Pond MW-115S2 07/15/95	Secondary Settling Pond MW-115S3 07/15/95	Secondary Settling Pond MW-115WT 07/15/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020 J)	ND(0.020 J)	ND(0.020 J)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbazole	mg/L	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.0010) [ND(0.0010)]	ND(0.025)	ND(0.025)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-116S1 07/15/95	Secondary Settling Pond MW-116S2 07/15/95	Secondary Settling Pond MW-116WT 07/15/95	Secondary Settling Pond MW-131S1 07/27/95	Secondary Settling Pond MW-131S2 07/27/95
Semivolatile Organics						
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
4-Nitrophenol	mg/L	ND(0.020 J)	ND(0.020 J)	ND(0.020 J)	ND(0.020)	ND(0.020) [ND(0.020)]
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	0.00063 J	ND(0.0050)	0.0014 J	0.0058 [0.00092 J]
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0050 [0.0039 J]
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-131S2 06/06/96	Secondary Settling Pond MW-131WT 07/27/95	Secondary Settling Pond MW-150WT 06/13/96	Secondary Settling Pond MW-184WT 08/17/00	Secondary Settling Pond TW-214S1 01/27/95	Secondary Settling Pond TW-214S2 01/27/95
Semivolatile Organics							
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.0050) [ND(0.0050)]	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020 J)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	0.0044 J	0.040 (IDW)
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.0050)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [0.0036 J]	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.0010) [ND(0.0010)]	ND(0.020)	ND(0.020)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Phenol	mg/L	0.0015 J	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	0.00062 J	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond TW-214WT 01/26/95	Secondary Settling Pond TW-215S1 01/27/95	Secondary Settling Pond TW-215S2 01/27/95	Secondary Settling Pond TW-215S3 01/27/95	Secondary Settling Pond TW-215WT 01/26/95	UST 4 UST-MWS1 07/27/95
Semivolatile Organics							
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Methylnaphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0030 J	ND(0.0050)
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Acenaphthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	0.00060 J	0.0032 J	ND(0.0050)	0.0019 J	0.0017 J	ND(0.0050)
Carbazole	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0023 J	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.025)
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0012 J	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)

See Notes in Table 15.

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Table 2. Semivolatile Organic Compounds Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 4 UST-MWS1 06/10/96	UST 4 UST-MWS2 07/26/95	UST 4 UST-MWS2 06/10/96	UST 7 MW-135S1 07/21/95	UST 7 MW-135S2 07/21/95	UST 7 MW-135S3 07/21/95	UST 7 MW-135WT 07/21/95	UST 8 UST8-MW1 06/08/94	UST 8 UST8-MW2 06/08/94	UST 8 UST8-MW3 06/08/94	UST 8 UST8-MW5 07/06/94
Semivolatile Organics												
1,3,5-Trinitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
2,4-Dichlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
2,4-Dimethylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
2,4-Dinitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	NA	NA	NA	NA
2-Chlorophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
2-Methylnaphthalene	mg/L	ND(0.0050)	0.00079 J	0.0012 J	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
2-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
2-Nitrophenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
4-Methylphenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
4-Nitrophenol	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	NA	NA	NA	NA
Acenaphthene	mg/L	0.0013 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)anthracene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(a)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(b)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(g,h,i)perylene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzo(k)fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.00091)	ND(0.0050 J)	ND(0.00057)	ND(0.0028)	NA	NA	NA	NA
Carbazole	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010 J)	ND(0.010)	ND(0.010)	NA	NA	NA	NA
Chrysene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibenzofuran	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
Diethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0035 J	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
Dimethylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
Di-n-Butylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
Di-n-Octylphthalate	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluoranthene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Fluorene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorocyclopentadiene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	mg/L	ND(0.0050)	0.0011 J	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Pentachlorophenol	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	NA	NA	NA	NA
Phenanthrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenol	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA
Pyrene	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050 J)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Methylphenols	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	FE	GAI	GCC	IDW	IGVIA	Above Ground Storage Tank Area AST-B6 11/08/88	Center Street Area MW-4 07/29/95	Center Street Area MW-4 06/10/96	Center Street Area MW-101WT 07/28/95	Center Street Area MW-101WT 06/05/96	Center Street Area MW-101WT 03/12/97
PCBs												
Aroclor-1016	mg/L	--	--	--	--	--	ND(0.11)	ND(0.00031)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA
Aroclor-1221	mg/L	--	--	--	--	--	ND(0.11)	ND(0.00031)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA
Aroclor-1232	mg/L	--	--	--	--	--	NA	ND(0.00062)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA
Aroclor-1242	mg/L	--	--	--	--	--	ND(0.11)	ND(0.00031)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA
Aroclor-1248	mg/L	--	--	--	--	--	ND(0.11)	ND(0.00031)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA
Aroclor-1254	mg/L	--	--	--	--	--	ND(0.25)	ND(0.00031)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA
Aroclor-1260	mg/L	--	--	--	--	--	ND(0.25)	ND(0.00031)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA
Total PCBs	mg/L	{ID}	{ID}	0.0033 {J,T,AA}	0.0005 {J,T,A}	0.045 {J,T,S}	ND(0.25)	ND(0.00062)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA
PCBs-Dissolved												
Aroclor-1016 (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0002 J)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1221 (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1232 (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA
Aroclor-1242 (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1248 (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1254 (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1260 (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Total PCBs (Dissolved)	mg/L	--	--	--	--	--	NA	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA
Pesticides and Herbicides												
None Detected												
Dioxins/Furans												
Total Tetrachlorodibenzofuran (TCDF)	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	{ID}	{ID}	0.00000001 {M,O,AA}	0.00000003 {O,A}	{NLV}	NA	NA	NA	NA	NA	NA
Miscellaneous												
Alkalinity, Total (As CaCO3)	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	{ID}	3,500	{ID}	10 {N}	7,100	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Bromide	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Chloride	mg/L	{ID}	{ID}	{ID}	250 {E}	{NLV}	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	--	--	--	--	--	NA	NA	NA	NA	ND(0.02)	ND(0.02)
Iron	mg/L	{ID}	{ID}	58,000 {B}	13 {B,E}	{NLV}	NA	NA	NA	NA	NA	NA
Manganese	mg/L	{ID}	{ID}	9,100 {B}	2.1 {B,E}	{NLV}	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	{ID}	{ID}	310,000 {B,N}	10 {B,A,N}	{NLV}	NA	NA	NA	NA	ND(0.08)	0.6
Nitrite (as N)	mg/L	{ID}	{ID}	{ID}	1 {B,A,N}	{NLV}	NA	NA	NA	NA	ND(0.07)	ND(0.07)
Nitrogen	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	{ID}	{ID}	{ID}	240	{NLV}	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	{ID}	{ID}	{ID}	250 {E}	{NLV}	NA	NA	NA	NA	138	160
Sulfide	mg/L	--	--	--	--	--	NA	NA	NA	NA	1.3	1.1
Total Dissolved Solids (TDS)	mg/L	{NA}	{NA}	{NA}	500 {E}	{NA}	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	--	--	--	--	--	NA	NA	NA	NA	2.4	2.3
Total Suspended Solids (TSS)	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-101WT 05/18/00	Center Street Area MW-102S1 07/25/95	Center Street Area MW-102WT 07/25/95	Center Street Area MW-103S1 07/12/95	Center Street Area MW-103S2 07/12/95	Center Street Area MW-103WT 07/12/95	Center Street Area MW-104S1 07/12/95	Center Street Area MW-104S2 07/12/95	Center Street Area MW-104WT 07/12/95
PCBs										
Aroclor-1016	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	14	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	14 (IDW)	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	0.6	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	ND(0.05)	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	ND(5)	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	ND(2)	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	45	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-105S1 07/12/95	Center Street Area MW-105S2 07/12/95	Center Street Area MW-105WT 07/12/95	Center Street Area MW-106S1 07/12/95	Center Street Area MW-106S2 07/12/95	Center Street Area MW-106WT 07/12/95	Center Street Area MW-136S1 07/20/95	Center Street Area MW-136S2 07/20/95	Center Street Area MW-136WT 07/20/95
PCBs										
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-140S1 07/20/95	Center Street Area MW-140S2 07/20/95	Center Street Area MW-140WT 07/20/95	Center Street Area MW-140WT 06/05/96	Center Street Area MW-141WT 07/28/95	Center Street Area MW-145WT 07/28/95	Center Street Area MW-146WT 07/28/95	Center Street Area MW-176WT 09/27/96	Center Street Area TW-201WT 02/06/95
PCBs										
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	0.00024	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	0.00024	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	ND(0.000036)	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	ND(0.5)	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area TW-201WT 02/06/95	Center Street Area TW-203S1 05/23/95	Center Street Area TW-203S2 05/24/95	Center Street Area TW-203WT 02/03/95	Center Street Area TW-203WT 02/03/95	Center Street Area TW-205S1 02/07/95	Center Street Area TW-205S1 02/07/95	Center Street Area TW-205S2 02/07/95	Center Street Area TW-205S2 02/07/95
PCBs										
Aroclor-1016	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1221	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1232	mg/L	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040)	NA
Aroclor-1242	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1248	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1254	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1260	mg/L	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Total PCBs	mg/L	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040)	NA
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S. U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area TW-205WT 02/06/95	Center Street Area TW-205WT 02/06/95	Eastern Type III Landfill B-4AR 07/25/95	Eastern Type III Landfill B-4AR 06/12/96	Eastern Type III Landfill B-4AR 03/09/97	Eastern Type III Landfill B-4AR 06/29/99	Eastern Type III Landfill B-4AR 09/02/99	Eastern Type III Landfill B-4AR 05/23/00
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00050)	NA	ND(0.00010)	NA	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00050)	NA	ND(0.00010)	NA	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	NA	ND(0.00040 J)	ND(0.00050)	NA	ND(0.00010)	NA	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00050)	NA	ND(0.00010)	NA	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	NA	0.0021 J	ND(0.00050)	NA	ND(0.00010)	NA	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	NA	0.0023 J	0.0022	NA	ND(0.00010)	NA	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	NA	ND(0.00040 J)	ND(0.0010)	NA	ND(0.00010)	NA	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	NA	0.0044 J (GCC, IDW)	0.0022 (IDW)	NA	ND(0.00010)	NA	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0001)	NA	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0001)	NA	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0001)	NA	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0001)	NA	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	NA	ND(0.0002)	0.0015	ND(0.0002)	NA	ND(0.0001)	NA	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	NA	ND(0.0002)	0.0011	ND(0.0002)	NA	ND(0.0001)	NA	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0004)	ND(0.0002)	NA	ND(0.0001)	NA	ND(0.0002)
Total PCBs (Dissolved)	mg/L	NA	ND(0.0004)	0.0026	ND(0.0004)	NA	ND(0.0001)	NA	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	4.4	4.7	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	13 J	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	ND(1)	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	300	290	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	210 D	NA
Ferrous Iron	mg/L	NA	NA	NA	ND(0.02)	1.8	NA	NA	1.9
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	2
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	0.16
Nitrate (as N)	mg/L	NA	NA	NA	ND(0.08)	ND(0.08)	NA	ND(0.01)	NA
Nitrite (as N)	mg/L	NA	NA	NA	ND(0.07)	ND(0.07)	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.05)
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	5.8	ND(5)	NA	13	ND(5)
Sulfide	mg/L	NA	NA	NA	ND(0.2)	3.1	NA	NA	2.4
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	19.4	32.3	64 D	55 D	42
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill B-4BR 07/25/95	Eastern Type III Landfill B-4BR 06/05/96	Eastern Type III Landfill B-4BR 03/09/97	Eastern Type III Landfill B-4BR 09/02/99	Eastern Type III Landfill B-4BR 05/22/00	Eastern Type III Landfill B-4CAUG 07/25/95	Eastern Type III Landfill B-4CAUG 06/04/96
PCBs								
Aroclor-1016	mg/L	ND(0.00020 J)	ND(0.00020)	NA	ND(0.00010)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020 J)	ND(0.00020)	NA	ND(0.00010)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040 J)	ND(0.00040)	NA	ND(0.00010)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020 J)	ND(0.00020)	NA	ND(0.00010)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	0.0018 J	0.0010	NA	0.00064	0.00053	0.00085	0.0010
Aroclor-1254	mg/L	0.00066 J	ND(0.00040)	NA	0.00026	ND(0.00020)	ND(0.00040)	ND(0.00040)
Aroclor-1260	mg/L	ND(0.00040 J)	ND(0.00040)	NA	ND(0.00010)	ND(0.00020)	ND(0.00040)	ND(0.00040)
Total PCBs	mg/L	0.0025 J (IDW)	0.0010 (IDW)	NA	0.00090 (IDW)	0.00053 (IDW)	0.00085 (IDW)	0.0010 (IDW)
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.00011)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.00011)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	NA	ND(0.00011)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.00011)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	0.0003	NA	ND(0.00011)	0.00023	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.00011)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.00011)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	0.0003	NA	ND(0.00011)	0.00023	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	0.87	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	6 J	NA
Bromide	mg/L	NA	NA	NA	ND(1)	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	400	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	1,100 D (IDW)	NA	NA	NA
Ferrous Iron	mg/L	NA	7.3	1.7	NA	2	NA	NA
Iron	mg/L	NA	NA	NA	NA	2.6	NA	NA
Manganese	mg/L	NA	NA	NA	NA	0.11	NA	NA
Nitrate (as N)	mg/L	NA	ND(0.08)	ND(0.08)	ND(0.01)	NA	NA	NA
Nitrite (as N)	mg/L	NA	ND(0.07)	ND(0.35)	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	ND(0.05)	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	47.7	34.7	17	ND(5)	NA	NA
Sulfide	mg/L	NA	1.5	9	NA	ND(2)	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	53.1	40.2	46 D	110	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill B-4CAUG 06/29/99	Eastern Type III Landfill B-4CAUG 09/02/99	Eastern Type III Landfill B-4CAUG 05/23/00	Eastern Type III Landfill B-4DAUG 07/25/95	Eastern Type III Landfill B-4DAUG 06/04/96	Eastern Type III Landfill B-4DAUG 09/02/99	Eastern Type III Landfill B-4DAUG 05/22/00
PCBs								
Aroclor-1016	mg/L	ND(0.00010)	NA	ND(0.00020)	ND(0.00020) [ND(0.00020)]	0.00067	ND(0.00010)	ND(0.00020) [ND(0.00020)]
Aroclor-1221	mg/L	ND(0.00010)	NA	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00010)	ND(0.00020) [ND(0.00020)]
Aroclor-1232	mg/L	ND(0.00010)	NA	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00010)	ND(0.00040) [ND(0.00040)]
Aroclor-1242	mg/L	ND(0.00010)	NA	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00010)	ND(0.00020) [ND(0.00020)]
Aroclor-1248	mg/L	0.00095	NA	ND(0.00020)	0.00064 [0.00067]	ND(0.00020)	0.0010	0.00069 [0.00070]
Aroclor-1254	mg/L	ND(0.00010)	NA	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	0.00021	ND(0.00020) [ND(0.00020)]
Aroclor-1260	mg/L	ND(0.00010)	NA	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00010)	ND(0.00020) [ND(0.00020)]
Total PCBs	mg/L	0.00095 (IDW)	NA	ND(0.00040)	0.00064 (IDW) [0.00067 (IDW)]	0.00067 (IDW)	0.0012 (IDW)	0.00069 (IDW) [0.00070 (IDW)]
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0001)	NA	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0001)	ND(0.0002) [ND(0.0002)]
Aroclor-1221 (Dissolved)	mg/L	ND(0.0001)	NA	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0001)	ND(0.0002) [ND(0.0002)]
Aroclor-1232 (Dissolved)	mg/L	ND(0.0001)	NA	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0001)	ND(0.0004) [ND(0.0004)]
Aroclor-1242 (Dissolved)	mg/L	ND(0.0001)	NA	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0001)	ND(0.0002) [ND(0.0002)]
Aroclor-1248 (Dissolved)	mg/L	0.00043	NA	0.00057	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0001)	ND(0.0002) [0.00034]
Aroclor-1254 (Dissolved)	mg/L	ND(0.0001)	NA	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0001)	ND(0.0002) [ND(0.0002)]
Aroclor-1260 (Dissolved)	mg/L	ND(0.0001)	NA	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0001)	ND(0.0002) [ND(0.0002)]
Total PCBs (Dissolved)	mg/L	0.00043	NA	0.00057	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0001)	ND(0.0004) [0.00034]
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	28 D (IDW)	25 D (IDW)	NA	NA	NA	11 D (IDW) [2.3]	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	4 J	NA	NA	NA
Bromide	mg/L	NA	ND(1)	NA	NA	NA	9 [ND(1)]	NA
Calcium Carbonate	mg/L	570	480	NA	NA	NA	310 [200]	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	360 D (IDW)	NA	NA	NA	2,000 D (IDW) [190 D]	NA
Ferrous Iron	mg/L	NA	NA	ND(1)	NA	NA	NA	2.9
Iron	mg/L	NA	NA	0.44	NA	NA	NA	2.9
Manganese	mg/L	NA	NA	0.01	NA	NA	NA	0.18
Nitrate (as N)	mg/L	NA	ND(0.01)	NA	NA	NA	ND(0.01) [ND(0.01)]	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	ND(0.05)	NA	NA	NA	ND(0.05)
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	11	ND(5)	NA	NA	120 D [66]	100
Sulfide	mg/L	NA	NA	ND(2)	NA	NA	NA	ND(2)
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	110 D	55 D	100	NA	NA	3.7 [6.3]	5.3
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill MW-133S1 07/20/95	Eastern Type III Landfill MW-133S2 07/20/95	Eastern Type III Landfill MW-133WT 07/20/95	Eastern Type III Landfill MW-134S1 07/20/95	Eastern Type III Landfill MW-134S2 07/20/95	Eastern Type III Landfill MW-134WT 07/20/95	LNAPL Assessment Area B-2BAUG 07/29/95
PCBs								
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00021)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00021)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00042)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00021)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00021)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00021)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00021)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00042)
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00023)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00023)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.00046)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00023)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00023)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00023)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00023)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.00046)
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area B-2R 07/29/95	LNAPL Assessment Area B-2R 06/11/96	LNAPL Assessment Area MW-132S1 07/21/95	LNAPL Assessment Area MW-132S1 06/07/96	LNAPL Assessment Area MW-132WT 07/21/95	LNAPL Assessment Area MW-132WT 06/06/96	LNAPL Assessment Area MW-147WT 07/30/95
PCBs								
Aroclor-1016	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.40)
Aroclor-1221	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.40)
Aroclor-1232	mg/L	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.80)
Aroclor-1242	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.40)
Aroclor-1248	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	0.61
Aroclor-1254	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.40)
Aroclor-1260	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	0.91
Total PCBs	mg/L	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	1.5 (GCC, IDW, IGVIA)
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00022)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00022)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.00044)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00022)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00022)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00022)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.00022)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.00044)
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	0.00000006	ND(0.000000012)	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	0.0000000432	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	ND(0.5)	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-151WT 10/20/95	LNAPL Assessment Area MW-152WT 10/20/95	LNAPL Assessment Area MW-152WT 06/05/96	LNAPL Assessment Area MW-152WT 05/21/00	LNAPL Assessment Area MW-153WT 10/20/95	LNAPL Assessment Area MW-154WT 10/19/95	LNAPL Assessment Area MW-154WT 06/13/96
PCBs								
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002 J)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0000000034)
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	ND(0.02)	2.4	NA	NA	NA
Iron	mg/L	NA	NA	NA	2.9	NA	NA	NA
Manganese	mg/L	NA	NA	NA	1.1	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	ND(0.08)	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	ND(0.07)	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	ND(0.05)	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	21.2	7.3	NA	NA	NA
Sulfide	mg/L	NA	NA	1.1	ND(2)	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	5.4	27	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-155WT 10/19/95	LNAPL Assessment Area MW-156WT 10/20/95	LNAPL Assessment Area MW-170WT 08/05/98	LNAPL Assessment Area MW-171WT 03/12/97	LNAPL Assessment Area MW-171WT 05/24/00	LNAPL Assessment Area TW-239WT 02/02/95	LNAPL Assessment Area TW-239WT 02/02/95
PCBs								
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.10)	NA	NA	ND(0.010)	NA
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.10)	NA	NA	ND(0.011)	NA
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.10)	NA	NA	ND(0.010)	NA
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	0.46	NA	NA	0.058	NA
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.10)	NA	NA	ND(0.010)	NA
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.10)	NA	NA	ND(0.020)	NA
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	0.16	NA	NA	0.20	NA
Total PCBs	mg/L	ND(0.00040)	ND(0.00040) [ND(0.00040)]	0.62 (GCC, IDW, IG/VIA)	NA	NA	0.26 (GCC, IDW, IG/VIA)	NA
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	NA	NA	NA	NA	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	NA	NA	NA	NA	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004) [ND(0.0004)]	NA	NA	NA	NA	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	NA	NA	NA	NA	0.00027
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	NA	NA	NA	NA	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	NA	NA	NA	NA	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	NA	NA	NA	NA	0.00025
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004) [ND(0.0004)]	NA	NA	NA	NA	0.00052
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	7.3	6.6	NA	NA
Iron	mg/L	NA	NA	NA	NA	7.2	NA	NA
Manganese	mg/L	NA	NA	NA	NA	0.92	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	0.59	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	ND(0.07)	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	ND(0.05)	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	ND(5)	ND(5)	NA	NA
Sulfide	mg/L	NA	NA	NA	1	ND(2)	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	39.5	35	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels B-5BAUG 07/12/95	Northern Drainage Channels B-5CAUG 07/12/95	Northern Drainage Channels B-5R 07/12/95	Northern Drainage Channels MW-5A 07/12/95	Northern Drainage Channels MW-5A 06/08/96	Northern Drainage Channels MW-5A 03/10/97	Northern Drainage Channels MW-5B 07/13/95	Northern Drainage Channels MW-5B 06/08/96	Northern Drainage Channels MW-6A 07/13/95
PCBs										
Aroclor-1016	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020 J)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020 J)
Aroclor-1221	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020 J)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020 J)
Aroclor-1232	mg/L	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	R	ND(0.00040)	ND(0.00040)	R	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	R	ND(0.00040)	ND(0.00040)	R	ND(0.00040)	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0008 *)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	R	ND(0.0004)	ND(0.0004)	R	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	R	ND(0.0004)	ND(0.0004)	R	ND(0.0004)	ND(0.0008)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	ND(0.0000029)	NA	NA	NA	NA	NA	ND(0.0000011)
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	5	NA	NA	NA	NA	NA	5
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels MW-6A 06/09/96	Northern Drainage Channels MW-6A 03/10/97	Northern Drainage Channels MW-6B 07/13/95	Northern Drainage Channels MW-6B 06/09/96	Northern Drainage Channels TW-206WT 02/07/95	Northern Drainage Channels TW-206WT 02/07/95	Northern Drainage Channels TW-207WT 02/07/95	Northern Drainage Channels TW-207WT 02/07/95	Northern Drainage Channels TW-208S1 02/14/95
PCBs										
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.000050)	NA	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.000050)	NA	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.000050)	NA	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.000050)	NA	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	0.00018	NA	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	0.00013	NA	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	0.000052	NA	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	0.00036	NA	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.000051)	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.000051)	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.000051)	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.000051)	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.000051)	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.000051)	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.000051)	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.000051)	NA
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels TW-208S1 02/14/95	Northern Drainage Channels TW-208S2 02/14/95	Northern Drainage Channels TW-208S2 02/14/95	Northern Drainage Channels TW-208WT 02/14/95	Northern Drainage Channels TW-208WT 02/14/95	Northern Drainage Channels TW-209S1 02/14/95	Northern Drainage Channels TW-209S1 02/14/95	Northern Drainage Channels TW-209S2 02/14/95	Northern Drainage Channels TW-209S2 02/14/95
PCBs										
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1232	mg/L	NA	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040)	NA
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1248	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	NA
Total PCBs	mg/L	NA	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040)	NA
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels TW-209WT 02/14/95	Northern Drainage Channels TW-209WT 02/14/95	Parking Lot Area/ Buffer Basin B-1BAUG 07/20/95	Parking Lot Area/ Buffer Basin B-1CAUG 07/20/95	Parking Lot Area/ Buffer Basin B-1DAUG 07/20/95	Parking Lot Area/ Buffer Basin B-1R 07/20/95	Parking Lot Area/ Buffer Basin MW-130S1 07/20/95	Parking Lot Area/ Buffer Basin MW-130S2 07/20/95	Parking Lot Area/ Buffer Basin MW-130S3 07/20/95
PCBs										
Aroclor-1016	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/ Buffer Basin MW-130WT 07/20/95	Parking Lot Area/ Buffer Basin MW-179WT 09/27/96	Parking Lot Area/ Buffer Basin MW-180WT 09/27/96	Parking Lot Area/ Buffer Basin MW-181WT 09/26/96	Parking Lot Area/ Buffer Basin MW-181WT 08/05/98	Parking Lot Area/ Buffer Basin MW-182WT 08/05/98	Previous Metal Feedstock B-6BAUG 07/21/95	Previous Metal Feedstock B-6CAUG 07/21/95
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020 J) [ND(0.00020)]	ND(0.00020 J)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	NA	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	NA	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S. U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Previous Metal Feedstock B-6DAUG 07/21/95	Previous Metal Feedstock B-6R 07/21/95	Quench Pit MW-137WT 07/28/95	Quench Pit QPTW-6 04/12/97	Quench Pit QPTW-7 04/12/97	Quench Pit QPTW-8 04/12/97	Quench Pit QPTW-9 04/12/97	Quench Pit QPTW-11 04/12/97	Quench Pit QPTW-12 04/12/97	Quench Pit QPTW-13 04/12/97	Quench Pit TW-228S1 01/31/95
PCBs												
Aroclor-1016	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved												
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA
Pesticides and Herbicides												
None Detected												
Dioxins/Furans												
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous												
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Quench Pit TW-228S1 01/31/95	Quench Pit TW-228WT 01/31/95	Quench Pit TW-228WT 01/31/95	Quench Pit TW-229S1 02/02/95	Quench Pit TW-229S1 02/02/95	Quench Pit TW-229WT 01/31/95	Quench Pit TW-229WT 01/31/95	Quench Pit TW-231WT 01/31/95	Quench Pit TW-231WT 01/31/95	Railyard Area MW-138WT 07/28/95	Railyard Area MW-138WT 06/10/96	Railyard Area MW-138WT 03/12/97	Railyard Area MW-138WT 05/19/00
PCBs														
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	NA	NA
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	NA	NA
Aroclor-1232	mg/L	NA	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040 J)	NA	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	NA	NA
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	NA	NA
Aroclor-1248	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	NA	NA
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	0.00013 J	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	NA	NA
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)	NA	NA
Total PCBs	mg/L	NA	ND(0.00040)	NA	ND(0.00040)	NA	0.00013 J	NA	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	NA	NA
PCBs-Dissolved														
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	NA	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004 J)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	NA
Pesticides and Herbicides														
None Detected														
Dioxins/Furans														
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous														
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.15	ND(0.02)	ND(1)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.33
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.08)	0.68	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.07)	ND(0.07)	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.05)
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(5)	210	170
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.2)	1.3	ND(2)
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56.2	ND(2)	ND(2)
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Railyard Area TW-240WT 02/06/95	Railyard Area TW-240WT 02/06/95	Saginaw River Area B-7BAUG 07/17/95	Saginaw River Area B-7BAUG 06/11/96	Saginaw River Area B-7CAUG 07/17/95	Saginaw River Area B-7CAUG 06/11/96	Saginaw River Area B-7R 07/17/95
PCBs								
Aroclor-1016	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040) [ND(0.00040)]	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	0.00034
Aroclor-1254	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040) [ND(0.00040)]	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	0.00034
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	NA	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	NA	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	0.000000091
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	0.000000001
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
pH (water)	S. U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	ND(0.5)
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area B-7R 06/13/96	Saginaw River Area B-7R 03/05/97	Saginaw River Area B-7R 06/29/99	Saginaw River Area B-7R 06/29/99	Saginaw River Area B-7R 06/29/99	Saginaw River Area B-7R 06/29/99	Saginaw River Area B-7R 06/29/99
PCBs								
Aroclor-1016	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]	ND(0.00010)	NA	NA	NA	NA
Aroclor-1221	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]	ND(0.00010)	NA	NA	NA	NA
Aroclor-1232	mg/L	ND(0.00040) [ND(0.00040)]	ND(0.00040) [ND(0.00040)]	ND(0.00010)	NA	NA	NA	NA
Aroclor-1242	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]	ND(0.00010)	NA	NA	NA	NA
Aroclor-1248	mg/L	ND(0.00020) [ND(0.00020)]	0.00025 [0.00027]	ND(0.00010)	NA	NA	NA	NA
Aroclor-1254	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]	ND(0.00010)	NA	NA	NA	NA
Aroclor-1260	mg/L	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]	ND(0.00010)	NA	NA	NA	NA
Total PCBs	mg/L	ND(0.00040) [ND(0.00040)]	0.00025 [0.00027]	ND(0.00010)	NA	NA	NA	NA
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004) [ND(0.0004)]	ND(0.0004) [ND(0.0004)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Total PCBs (Dissolved)	mg/L	ND(0.0004) [ND(0.0004)]	ND(0.0004) [ND(0.0004)]	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	ND(0.00000000045) [ND(0.00000000036)]	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	2.4	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	ND(2)	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	190	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	28	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	ND(0.01)	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	0.3	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	ND(1)	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	2.8	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	7.1	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area B-7R 09/02/99	Saginaw River Area B-7R 05/20/00	Saginaw River Area B-7R 04/05/01	Saginaw River Area B-7R 06/02/04	Saginaw River Area B-7R 08/23/05	Saginaw River Area B-7R 08/23/05	Saginaw River Area MW-6CAUG 07/13/95	Saginaw River Area MW-6CAUG 06/09/96
PCBs									
Aroclor-1016	mg/L	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	NA	ND(0.00040)	ND(0.00040)	NA	ND(0.00020)	NA	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	NA	ND(0.00040)	ND(0.00040)	NA	ND(0.00020)	NA	ND(0.00040)	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0002)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	NA	ND(0.0002)	NA	0.00031	NA	0.00031	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	NA	ND(0.0004)	NA	0.00031	NA	0.00031	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	2.2	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	ND(1)	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	200	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	190 D	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	ND(1)	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	0.41	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	0.55	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	ND(0.01) [ND(0.01)]	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	0.12	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	65	54	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	ND(2)	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	640 (IDW) [640 (IDW)]	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	6.2	7.5	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	4 [1]	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-6DAUG 07/13/95	Saginaw River Area MW-6DAUG 06/09/96	Saginaw River Area MW-107S1 07/12/95	Saginaw River Area MW-107S1 06/07/96	Saginaw River Area MW-107S2 07/12/95	Saginaw River Area MW-107S2 06/07/96	Saginaw River Area MW-107WT 07/12/95	Saginaw River Area MW-107WT 06/07/96	Saginaw River Area MW-107WT 03/10/97
PCBs										
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S. U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-108S1 07/13/95	Saginaw River Area MW-108S1 06/08/96	Saginaw River Area MW-108S1 03/10/97	Saginaw River Area MW-108S1 06/29/99	Saginaw River Area MW-108S1 09/02/99	Saginaw River Area MW-108S1 05/23/00	Saginaw River Area MW-108S2 07/13/95	Saginaw River Area MW-108S2 06/08/96	Saginaw River Area MW-108S3 07/13/95
PCBs										
Aroclor-1016	mg/L	R	ND(0.00020)	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	R	ND(0.00020)	R
Aroclor-1221	mg/L	R	ND(0.00020)	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	R	ND(0.00020)	R
Aroclor-1232	mg/L	R	ND(0.00040)	ND(0.00040)	ND(0.00010)	NA	ND(0.00040)	R	ND(0.00040)	R
Aroclor-1242	mg/L	R	ND(0.00020)	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	R	ND(0.00020)	R
Aroclor-1248	mg/L	0.00022	ND(0.00020)	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	R	ND(0.00020)	R
Aroclor-1254	mg/L	R	ND(0.00020)	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	R	ND(0.00020)	R
Aroclor-1260	mg/L	R	ND(0.00020)	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	R	ND(0.00020)	R
Total PCBs	mg/L	0.00022	ND(0.00040)	ND(0.00040)	ND(0.00010)	NA	ND(0.00040)	R	ND(0.00040)	R
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	R	ND(0.0002)	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	R	ND(0.0002)	R
Aroclor-1221 (Dissolved)	mg/L	R	ND(0.0002)	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	R	ND(0.0002)	R
Aroclor-1232 (Dissolved)	mg/L	R	ND(0.0004)	ND(0.0004)	ND(0.0001)	NA	ND(0.0004)	R	ND(0.0004)	R
Aroclor-1242 (Dissolved)	mg/L	R	ND(0.0002)	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	R	ND(0.0002)	R
Aroclor-1248 (Dissolved)	mg/L	R	ND(0.0002)	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	R	ND(0.0002)	R
Aroclor-1254 (Dissolved)	mg/L	R	ND(0.0002)	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	R	ND(0.0002)	R
Aroclor-1260 (Dissolved)	mg/L	R	ND(0.0002)	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	R	ND(0.0002)	R
Total PCBs (Dissolved)	mg/L	R	ND(0.0004)	ND(0.0004)	ND(0.0001)	NA	ND(0.0004)	R	ND(0.0004)	R
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	1	0.91	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	ND(1)	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	85	110	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	150 D	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	7.1	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	6.8	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	1.1	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	0.015	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	ND(0.05)	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	46	100	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	2	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	5.1	4.2	4.5	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-108S3 06/08/96	Saginaw River Area MW-108S4 07/13/95	Saginaw River Area MW-108S4 06/08/96	Saginaw River Area MW-108WT 07/13/95	Saginaw River Area MW-108WT 06/08/96	Saginaw River Area MW-108WT 03/10/97	Saginaw River Area MW-109WT 07/13/95	Saginaw River Area MW-109WT 06/12/96	Saginaw River Area MW-109WT 03/10/97
PCBs										
Aroclor-1016	mg/L	ND(0.00020)	R	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	R	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	R	ND(0.00040)	R	ND(0.00040)	ND(0.00040)	R	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	R	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	R	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	R	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	R	ND(0.00020)	R	ND(0.00020)	ND(0.00020)	R	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	R	ND(0.00040)	R	ND(0.00040)	ND(0.00040)	R	ND(0.00040)	ND(0.00040)
PCBs-Dissolved										
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	R	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	R	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	R	ND(0.0004)	R	ND(0.0004)	ND(0.0004)	R	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	R	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	R	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	R	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	R	ND(0.0002)	R	ND(0.0002)	ND(0.0002)	R	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	R	ND(0.0004)	R	ND(0.0004)	ND(0.0004)	R	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides										
None Detected										
Dioxins/Furans										
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S. U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-110WT 06/12/96	Saginaw River Area MW-110WT 03/06/97	Saginaw River Area MW-110WT 12/10/97	Saginaw River Area MW-110WT 05/22/00	Saginaw River Area MW-110WTR 06/02/04	Saginaw River Area MW-110WTR 08/24/05	Saginaw River Area MW-110WTR 08/24/05	Saginaw River Area MW-111S1 07/14/95
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00041)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	0.00023	ND(0.00020)	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	0.00023	ND(0.00040)	ND(0.00040)	NA	ND(0.00020) [ND(0.00020)]	NA	ND(0.00041)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00021)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00021)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00042)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00021)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00021)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00021)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00021)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0002) [ND(0.0002)]	ND(0.00042)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111S1 06/12/96	Saginaw River Area MW-111S2 07/13/95	Saginaw River Area MW-111S2 06/10/96	Saginaw River Area MW-111S3 07/13/95	Saginaw River Area MW-111S3 06/10/96	Saginaw River Area MW-111S3 06/29/99	Saginaw River Area MW-111S4 07/14/95	Saginaw River Area MW-111S4 06/10/96
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	0.00021	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	0.00021	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0001)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0001)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0001)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0001)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0001)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0001)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0001)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0001)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111S4 03/07/97	Saginaw River Area MW-111S4 07/02/99	Saginaw River Area MW-111S4 09/02/99	Saginaw River Area MW-111S4 05/23/00	Saginaw River Area MW-111WT 07/14/95	Saginaw River Area MW-111WT 06/12/96	Saginaw River Area MW-111WT 03/07/97	Saginaw River Area MW-111WT 06/30/99
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00010)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00010)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00010)	NA	ND(0.00040)	ND(0.00042)	ND(0.00040)	ND(0.00040)	ND(0.00010)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00010)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	0.00041	ND(0.00020)	0.00028	0.00011
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00010)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00010)	NA	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00010)
Total PCBs	mg/L	ND(0.00040)	ND(0.00010)	NA	ND(0.00040)	0.00041	ND(0.00040)	0.00028	0.00011
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	ND(0.00021)	ND(0.0002)	ND(0.0002)	ND(0.0001)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	ND(0.00021)	ND(0.0002)	ND(0.0002)	ND(0.0001)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0001)	NA	ND(0.0004)	ND(0.00042)	ND(0.0004)	ND(0.0004)	ND(0.0001)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	ND(0.00021)	ND(0.0002)	ND(0.0002)	ND(0.0001)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	ND(0.00021)	ND(0.0002)	ND(0.0002)	ND(0.0001)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	ND(0.00021)	ND(0.0002)	ND(0.0002)	ND(0.0001)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0001)	NA	ND(0.0002)	ND(0.00021)	ND(0.0002)	ND(0.0002)	ND(0.0001)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0001)	NA	ND(0.0004)	ND(0.00042)	ND(0.0004)	ND(0.0004)	ND(0.0001)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	9 D	8.6 D	NA	NA	NA	NA	2.7
Biochemical Oxygen Demand (BOD)	mg/L	NA	3.5 J	NA	NA	NA	NA	NA	ND(2)
Bromide	mg/L	NA	NA	ND(1)	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	72	80	NA	NA	NA	NA	340
Chemical Oxygen Demand (COD)	mg/L	NA	70	NA	NA	NA	NA	NA	43
Chloride	mg/L	NA	NA	1,200 D (IDW)	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	ND(1)	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	ND(0.05)	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	ND(0.01)	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	ND(0.01)	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	0.031	NA	NA	NA	NA	ND(0.01)
Nitrogen	mg/L	NA	0.024	NA	ND(0.05)	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	0.01	NA	NA	NA	NA	NA	1
Sulfate	mg/L	NA	NA	72	95	NA	NA	NA	NA
Sulfide	mg/L	NA	ND(1)	NA	ND(5)	NA	NA	NA	ND(1)
Total Dissolved Solids (TDS)	mg/L	NA	2,700 (IDW)	2,700 (IDW)	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	8.7	NA	NA	NA	NA	NA	2.9
Total Organic Carbon (TOC)	mg/L	NA	5.7	5.4	7.3	NA	NA	NA	11
Total Suspended Solids (TSS)	mg/L	NA	94	50	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111WT 06/30/99	Saginaw River Area MW-111WT 06/30/99	Saginaw River Area MW-111WT 06/30/99	Saginaw River Area MW-111WT 09/02/99	Saginaw River Area MW-111WT 05/19/00	Saginaw River Area MW-111WT 04/05/01	Saginaw River Area MW-111WT 06/02/04	Saginaw River Area MW-111WT 08/26/05
PCBs									
Aroclor-1016	mg/L	NA	NA	NA	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)
Aroclor-1221	mg/L	NA	NA	NA	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)
Aroclor-1232	mg/L	NA	NA	NA	NA	ND(0.00040)	ND(0.00040)	NA	ND(0.00020)
Aroclor-1242	mg/L	NA	NA	NA	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)
Aroclor-1248	mg/L	NA	NA	NA	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)
Aroclor-1254	mg/L	NA	NA	NA	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)
Aroclor-1260	mg/L	NA	NA	NA	NA	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)
Total PCBs	mg/L	NA	NA	NA	NA	ND(0.00040)	ND(0.00040)	NA	ND(0.00020)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0004)	NA	ND(0.0004) [ND(0.0004)]	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002)	NA	ND(0.0002) [ND(0.0002)]	NA
Total PCBs (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0004)	NA	ND(0.0004) [ND(0.0004)]	NA
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	3.1	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	1	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	370	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	250 D	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	20	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	20 (IDW)	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	2.5 (IDW)	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	ND(0.01)	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	0.021	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	0.7	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	120 D	180	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	ND(2)	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	1,100 (IDW)	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	13	12	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	33	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111WT 08/26/05	Saginaw River Area MW-112WT 07/17/95	Saginaw River Area MW-112WT 06/12/96	Saginaw River Area MW-112WT 09/26/96	Saginaw River Area MW-112WT 09/27/96	Saginaw River Area MW-112WT 09/27/96	Saginaw River Area MW-112WT 09/27/96	Saginaw River Area MW-112WT 03/05/97
PCBs									
Aroclor-1016	mg/L	NA	ND(0.0010)	ND(0.00020)	0.00027	0.00028	0.00039	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.0010)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	NA	ND(0.0020)	ND(0.00040)	NA	ND(0.00040)	NA	NA	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.0010)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	NA	0.0053	0.00029	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.0010)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	NA	ND(0.0010)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	NA	0.0053 (GCC, IDW)	0.00029	0.00027	0.00028	0.00039	ND(0.00020)	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	NA	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	NA	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0002)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	NA	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0002)	ND(0.0004)	ND(0.0004)	ND(0.0002)	ND(0.0004)	ND(0.0002)	NA	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-112WT 06/30/99	Saginaw River Area MW-112WT 06/30/99	Saginaw River Area MW-112WT 06/30/99	Saginaw River Area MW-112WT 06/30/99	Saginaw River Area MW-112WT 06/30/99	Saginaw River Area MW-112WT 09/02/99	Saginaw River Area MW-112WT 05/20/00	Saginaw River Area MW-112WT 04/05/01
PCBs									
Aroclor-1016	mg/L	ND(0.00010)	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA
Aroclor-1221	mg/L	ND(0.00010)	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA
Aroclor-1232	mg/L	ND(0.00010)	NA	NA	NA	NA	NA	ND(0.00040) [ND(0.00040)]	NA
Aroclor-1242	mg/L	ND(0.00010)	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA
Aroclor-1248	mg/L	0.00058	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA
Aroclor-1254	mg/L	ND(0.00010)	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA
Aroclor-1260	mg/L	ND(0.00010)	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA
Total PCBs	mg/L	0.00058 (IDW)	NA	NA	NA	NA	NA	ND(0.00040) [ND(0.00040)]	NA
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0004) [ND(0.0004)]	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002) [ND(0.0002)]	0.00022
Aroclor-1248 (Dissolved)	mg/L	0.00017	0.00053	ND(0.0001)	0.00042	0.00012	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)
Total PCBs (Dissolved)	mg/L	0.00017	0.00053	ND(0.0001)	0.00042	0.00012	NA	ND(0.0004) [ND(0.0004)]	0.00022
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	1.2	NA	NA	NA	NA	0.97	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	ND(1)	NA	NA
Calcium Carbonate	mg/L	210	NA	NA	NA	NA	220	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	160 D	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	6.9	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	7	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	1.9	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	ND(0.01)	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	0.81	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	12	91	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	ND(2)	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	5.8	NA	NA	NA	NA	5.7	7.9	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-112WT 04/05/01	Saginaw River Area MW-112WT 06/03/04	Saginaw River Area MW-112WT 08/25/05	Saginaw River Area MW-112WT 08/25/05	Saginaw River Area MW-113WT 07/17/95	Saginaw River Area MW-113WT 06/13/96	Saginaw River Area MW-113WT 03/08/97	Saginaw River Area MW-114S1 07/17/95
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00022)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00022)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	NA	ND(0.00020)	NA	ND(0.00045)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	0.00020 J	NA	ND(0.00020)	NA	ND(0.00022)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00022)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00022)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00022)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	0.00020 J	NA	ND(0.00020)	NA	ND(0.00045)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.00022)	ND(0.0002)	ND(0.0002)	ND(0.00021)
Aroclor-1221 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.00022)	ND(0.0002)	ND(0.0002)	ND(0.00021)
Aroclor-1232 (Dissolved)	mg/L	NA	ND(0.0004)	NA	ND(0.0002)	ND(0.00044)	ND(0.0004)	ND(0.0004)	ND(0.00042)
Aroclor-1242 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.00022)	ND(0.0002)	ND(0.0002)	ND(0.00021)
Aroclor-1248 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.00022)	ND(0.0002)	ND(0.0002)	ND(0.00021)
Aroclor-1254 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.00022)	ND(0.0002)	ND(0.0002)	ND(0.00021)
Aroclor-1260 (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.00022)	ND(0.0002)	ND(0.0002)	ND(0.00021)
Total PCBs (Dissolved)	mg/L	NA	ND(0.0004)	NA	ND(0.0002)	ND(0.00044)	ND(0.0004)	ND(0.0004)	ND(0.00042)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-114S1 06/07/96	Saginaw River Area MW-114S2 07/17/95	Saginaw River Area MW-114S2 06/07/96	Saginaw River Area MW-114S3 07/17/95	Saginaw River Area MW-114S3 06/07/96	Saginaw River Area MW-114S4 07/17/95	Saginaw River Area MW-114S4 06/07/96	Saginaw River Area MW-114WT 06/08/96
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00041)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00021)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00041)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.00041)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.00041)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-114WT 03/06/97	Saginaw River Area MW-114WT 12/11/97	Saginaw River Area MW-114WT 05/22/00	Saginaw River Area MW-114WT 04/05/01	Saginaw River Area MW-114WT 06/03/04	Saginaw River Area MW-114WT 08/24/05	Saginaw River Area MW-114WT 08/24/05	Saginaw River Area MW-149WT 06/12/96
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00020)	NA	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1260	mg/L	0.00041	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Total PCBs	mg/L	0.00041	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00020)	NA	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002 J)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0002)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002 J)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002 J)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0002)	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-149WT 03/10/97	Saginaw River Area MW-183WT 08/17/00	Saginaw River Area TW-210S1 02/15/95	Saginaw River Area TW-210S1 02/15/95	Saginaw River Area TW-210S2 02/15/95	Saginaw River Area TW-210S2 02/15/95	Saginaw River Area TW-210WT 02/14/95	Saginaw River Area TW-210WT 02/14/95
PCBs									
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.000051 J)	NA
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.000051 J)	NA
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.000051 J)	NA
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.000051 J)	NA
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.000051 J)	NA
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.000051 J)	NA
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.000051 J)	NA
Total PCBs	mg/L	0.00095 (IDW)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.000051)	NA
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.00005)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.00005)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-211S1 02/15/95	Saginaw River Area TW-211S1 02/15/95	Saginaw River Area TW-211S2 02/16/95	Saginaw River Area TW-211S2 02/16/95	Saginaw River Area TW-211WT 02/16/95	Saginaw River Area TW-211WT 02/16/95	Saginaw River Area TW-212S1 02/15/95
PCBs								
Aroclor-1016	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	NA	ND(0.00025)	NA	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	NA	ND(0.00025)	NA	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040) [ND(0.00040)]	NA	ND(0.00040)	NA	ND(0.00025)	NA	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	NA	ND(0.00025)	NA	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	NA	0.0015	NA	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	NA	ND(0.00025)	NA	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020) [ND(0.00020)]	NA	ND(0.00020)	NA	ND(0.00025)	NA	ND(0.00020)
Total PCBs	mg/L	ND(0.00040) [ND(0.00040)]	NA	ND(0.00040)	NA	0.0015 (IDW)	NA	ND(0.00040)
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	NA	ND(0.0002)	NA	ND(0.000053)	NA
Aroclor-1221 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	NA	ND(0.0002)	NA	ND(0.000053)	NA
Aroclor-1232 (Dissolved)	mg/L	NA	ND(0.0004) [ND(0.0004)]	NA	ND(0.0004)	NA	ND(0.000053)	NA
Aroclor-1242 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	NA	ND(0.0002)	NA	ND(0.000053)	NA
Aroclor-1248 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	NA	ND(0.0002)	NA	ND(0.000053)	NA
Aroclor-1254 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	NA	ND(0.0002)	NA	ND(0.000053)	NA
Aroclor-1260 (Dissolved)	mg/L	NA	ND(0.0002) [ND(0.0002)]	NA	ND(0.0002)	NA	ND(0.000053)	NA
Total PCBs (Dissolved)	mg/L	NA	ND(0.0004) [ND(0.0004)]	NA	ND(0.0004)	NA	ND(0.000053)	NA
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-212S1 02/15/95	Saginaw River Area TW-212S2 02/16/95	Saginaw River Area TW-212S2 02/16/95	Saginaw River Area TW-212WT 02/16/95	Saginaw River Area TW-212WT 02/16/95	Saginaw River Area TW-213S1 02/16/95	Saginaw River Area TW-213S1 02/16/95	Saginaw River Area TW-213S2 02/17/95
PCBs									
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	0.024	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	ND(0.0026)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1232	mg/L	NA	ND(0.00040)	NA	ND(0.0026)	NA	ND(0.00040)	NA	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	ND(0.0026)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1248	mg/L	NA	ND(0.00020)	NA	0.038	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	ND(0.0026)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	ND(0.0026)	NA	ND(0.00020)	NA	ND(0.00020)
Total PCBs	mg/L	NA	ND(0.00040)	NA	0.062 (GCC, IDW, IGVA)	NA	ND(0.00040)	NA	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)	NA	ND(0.0002)	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)	NA	ND(0.0002)	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.00005)	NA	ND(0.0004)	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)	NA	ND(0.0002)	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)	NA	ND(0.0002)	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)	NA	ND(0.0002)	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00005)	NA	ND(0.0002)	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.00005)	NA	ND(0.0004)	NA
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S. U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-213S2 02/17/95	Saginaw River Area TW-213WT 02/17/95	Saginaw River Area TW-213WT 02/17/95	Saginaw River Area X-4AR 07/24/95	Saginaw River Area X-4AR 06/09/96	Saginaw River Area X-4AR 03/05/97	Saginaw River Area X-4CAUG 07/24/95	Saginaw River Area X-4CAUG 06/08/96
PCBs									
Aroclor-1016	mg/L	NA	ND(0.0027)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.0027)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	NA	ND(0.0027)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.0027)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	NA	0.017	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.0027)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	NA	0.0041	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	NA	0.021 (GCC, IDW)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.00005)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0005)	NA	ND(0.00005)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.00005)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004 J)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.00005)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	0.000075	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.00005)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.00005)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0005)	NA	0.000075	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004 J)	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area X-9AR 07/24/95	Saginaw River Area X-9AR 06/09/96	Saginaw River Area X-9AR 03/05/97	Saginaw River Area X-9AR 12/15/06	Saginaw River Area X-9BR 07/24/95	Saginaw River Area X-9BR 06/08/96	Saginaw River Area X-9BR 12/15/06	Saginaw River Area X-9CAUG 07/24/95
PCBs									
Aroclor-1016	mg/L	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1232	mg/L	ND(0.00040 J)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040 J)	ND(0.00040)	ND(0.00020)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	NA	ND(0.00020 J)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	ND(0.00040)	ND(0.00040)	ND(0.00020)	ND(0.00040)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	NA	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	NA	ND(0.0004)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	ND(0.2)	NA	NA	5.9	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	29.7	NA	NA	191	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	ND(0.1)	NA	NA	0.1	NA
Nitrite (as N)	mg/L	NA	NA	NA	ND(0.1)	NA	NA	0.18	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	7.2 J	NA	NA	7.2 J	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	29.2	NA	NA	ND(1)	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	790 (IDW)	NA	NA	830 (IDW)	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area X-9CAUG 06/08/96	Secondary Settling Pond MW-115S1 07/15/95	Secondary Settling Pond MW-115S2 07/15/95	Secondary Settling Pond MW-115S3 07/15/95	Secondary Settling Pond MW-115WT 07/15/95	Secondary Settling Pond MW-116S1 07/15/95	Secondary Settling Pond MW-116S2 07/15/95
PCBs								
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00080 *)	ND(0.00080 *)	ND(0.00080 *)	ND(0.00080 *)	ND(0.00080 *)	ND(0.00080 *)
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	ND(0.00040)	ND(0.00080)	ND(0.00080)	ND(0.00080)	ND(0.00080)	ND(0.00080)	ND(0.00080)
PCBs-Dissolved								
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0008 *)	ND(0.0008 *)	ND(0.0008 *)	ND(0.0008 *)	ND(0.0002)	ND(0.0008 *)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0008)	ND(0.0008)	ND(0.0008)	ND(0.0008)	ND(0.0004)	ND(0.0008)
Pesticides and Herbicides								
None Detected								
Dioxins/Furans								
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-116WT 07/15/95	Secondary Settling Pond MW-131S1 07/27/95	Secondary Settling Pond MW-131S2 07/27/95	Secondary Settling Pond MW-131WT 07/27/95	Secondary Settling Pond MW-150WT 06/13/96	Secondary Settling Pond MW-184WT 08/17/00
PCBs							
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]
Aroclor-1221	mg/L	ND(0.00080 *)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040) [ND(0.00040)]
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020)	ND(0.00020) [ND(0.00020)]	ND(0.00020) [ND(0.00020)]
Total PCBs	mg/L	ND(0.00080)	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040)	ND(0.00040) [ND(0.00040)]	ND(0.00040) [ND(0.00040)]
PCBs-Dissolved							
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]
Aroclor-1221 (Dissolved)	mg/L	ND(0.0008 *)	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004) [ND(0.0004)]
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002) [ND(0.0002)]
Total PCBs (Dissolved)	mg/L	ND(0.0008)	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004)	ND(0.0004) [ND(0.0004)]	ND(0.0004) [ND(0.0004)]
Pesticides and Herbicides							
None Detected							
Dioxins/Furans							
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA
Miscellaneous							
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-185WT 06/03/04	Secondary Settling Pond MW-185WT 08/25/05	Secondary Settling Pond MW-185WT 08/25/05	Secondary Settling Pond TW-214S1 01/27/95	Secondary Settling Pond TW-214S1 01/27/95	Secondary Settling Pond TW-214S2 01/27/95
PCBs							
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1232	mg/L	NA	ND(0.00020)	NA	ND(0.00040)	NA	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1248	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	ND(0.00020)	NA	ND(0.00020)
Total PCBs	mg/L	NA	ND(0.00020)	NA	ND(0.00040)	NA	ND(0.00040)
PCBs-Dissolved							
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0002)	NA	ND(0.0004)	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0002)	NA	ND(0.0004)	NA
Pesticides and Herbicides							
None Detected							
Dioxins/Furans							
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA
Miscellaneous							
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond TW-214S2 01/27/95	Secondary Settling Pond TW-214WT 01/26/95	Secondary Settling Pond TW-214WT 01/26/95	Secondary Settling Pond TW-215S1 01/27/95	Secondary Settling Pond TW-215S1 01/27/95	Secondary Settling Pond TW-215S2 01/27/95
PCBs							
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)
Aroclor-1232	mg/L	NA	ND(0.00040)	NA	ND(0.00040 J)	NA	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)
Aroclor-1248	mg/L	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	ND(0.00020 J)	NA	ND(0.00020)
Total PCBs	mg/L	NA	ND(0.00040)	NA	ND(0.00040)	NA	ND(0.00040)
PCBs-Dissolved							
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	NA
Pesticides and Herbicides							
None Detected							
Dioxins/Furans							
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA
Miscellaneous							
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
pH (water)	S. U.	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond TW-215S2 01/27/95	Secondary Settling Pond TW-215S3 01/27/95	Secondary Settling Pond TW-215S3 01/27/95	Secondary Settling Pond TW-215WT 01/26/95	Secondary Settling Pond TW-215WT 01/26/95	UST 4 UST-MWS1 07/27/95	UST 4 UST-MWS1 06/10/96	UST 4 UST-MWS2 07/26/95
PCBs									
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	ND(0.00050 J)	NA	ND(0.00020)	ND(0.00020 J)	ND(0.00020)
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	ND(0.00050 J)	NA	ND(0.00020)	ND(0.00020)	ND(0.00080 *)
Aroclor-1232	mg/L	NA	ND(0.00040)	NA	ND(0.00050 J)	NA	ND(0.00040)	ND(0.00040)	ND(0.00040)
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	ND(0.00050 J)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1248	mg/L	NA	ND(0.00020)	NA	ND(0.00050 J)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	0.0019 J	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	ND(0.0010 J)	NA	ND(0.00020)	ND(0.00020)	ND(0.00020)
Total PCBs	mg/L	NA	ND(0.00040)	NA	0.0019 J (IDW)	NA	ND(0.00040)	ND(0.00040)	ND(0.00080)
PCBs-Dissolved									
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0008 *)
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00025)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.00025)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Total PCBs (Dissolved)	mg/L	ND(0.0004)	NA	ND(0.0004)	NA	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0008)
Pesticides and Herbicides									
None Detected									
Dioxins/Furans									
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 06/01/96	UST 7 BBL-MW1 06/20/96	UST 7 BBL-MW1 07/31/98	UST 7 BBL-MW1 07/31/98	UST 7 BBL-MW1 10/01/98	UST 7 BBL-MW1 10/27/98	UST 7 BBL-MW1 01/01/99	UST 7 BBL-MW1 01/28/99	UST 7 BBL-MW1 04/01/99	UST 7 BBL-MW1 04/12/99	UST 7 BBL-MW1 07/01/99	UST 7 BBL-MW1 07/14/99	UST 7 BBL-MW1 10/01/99	UST 7 BBL-MW1 10/22/99	UST 7 BBL-MW1 01/01/00
PCBs																
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/L	NA	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/L	NA	ND(0.00020 J)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Dissolved																
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides																
None Detected																
Dioxins/Furans																
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Alkalinity, Total (As CaCO3)	mg/L	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	1.7 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	ND(0.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	ND(5)	ND(5)	ND(5)	ND(0.005)	2	0.002	2	0.002	3	0.003	2	0.002	ND(1)	ND(0.001)	ND(1) [ND(1)]
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 01/01/00	UST 7 BBL-MW1 05/01/00	UST 7 BBL-MW1 05/18/00	UST 7 BBL-MW1 08/01/00	UST 7 BBL-MW1 08/23/00	UST 7 BBL-MW1 10/01/00	UST 7 BBL-MW1 03/01/01	UST 7 BBL-MW1 05/01/01	UST 7 BBL-MW1 08/01/01	UST 7 BBL-MW1 02/11/02	UST 7 BBL-MW1 08/02/02	UST 7 BBL-MW1 03/03/03	UST 7 BBL-MW1 08/03/03	UST 7 BBL-MW1 02/04/04
PCBs															
Aroclor-1016	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Dissolved															
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides															
None Detected															
Dioxins/Furans															
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous															
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	ND(0.001) [ND(0.001)]	25.1	25.1	6 [6]	6 [6]	ND(1)	ND(1) [ND(1)]	ND(5)	2 [2]	21	5 [4]	16	ND(5) [ND(5)]	8 [8]
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 08/04/04	UST 7 BBL-MW1 02/05/05	UST 7 BBL-MW1 02/22/05	UST 7 BBL-MW1 08/05/05	UST 7 BBL-MW1 08/22/05	UST 7 BBL-MW2 06/18/96	UST 7 BBL-MW2 05/01/00	UST 7 BBL-MW2 05/19/00	UST 7 BBL-MW3 06/18/96	UST 7 BBL-MW3 05/01/00	UST 7 BBL-MW3 05/17/00	UST 7 BBL-MW3 02/06/06	UST 7 BBL-MW3 08/06/06
PCBs														
Aroclor-1016	mg/L	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA	NA	ND(0.00020)	NA	NA	NA	NA
Aroclor-1221	mg/L	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA	NA	ND(0.00020)	NA	NA	NA	NA
Aroclor-1232	mg/L	NA	NA	NA	NA	NA	ND(0.00040) [ND(0.00040)]	NA	NA	ND(0.00040)	NA	NA	NA	NA
Aroclor-1242	mg/L	NA	NA	NA	NA	NA	ND(0.00020 J) [ND(0.00020)]	NA	NA	ND(0.00020)	NA	NA	NA	NA
Aroclor-1248	mg/L	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA	NA	ND(0.00020)	NA	NA	NA	NA
Aroclor-1254	mg/L	NA	NA	NA	NA	NA	ND(0.00020) [ND(0.00020)]	NA	NA	ND(0.00020)	NA	NA	NA	NA
Aroclor-1260	mg/L	NA	NA	NA	NA	NA	ND(0.00020 J) [ND(0.00020)]	NA	NA	ND(0.00020)	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	ND(0.00040) [ND(0.00040)]	NA	NA	ND(0.00040)	NA	NA	NA	NA
PCBs-Dissolved														
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides														
None Detected														
Dioxins/Furans														
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous														
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	180 [170]	NA	NA	290	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	2.1 J [2 J]	NA	NA	16.6 J	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	ND(0.1) [ND(0.1)]	NA	NA	ND(0.1)	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	ND(5) [ND(5)]	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) [6]	62.2	62.2	ND(5)	ND(1)	ND(1)	ND(5)	ND(5)
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW4 06/01/96	UST 7 BBL-MW4 06/18/96	UST 7 BBL-MW4 05/01/00	UST 7 BBL-MW4 05/18/00	UST 7 BBL-MW4 02/04/04	UST 7 BBL-MW4 08/04/04	UST 7 BBL-MW4 02/22/05	UST 7 BBL-MW4 02/22/05	UST 7 BBL-MW4 08/05/05	UST 7 BBL-MW4 08/23/05	UST 7 BBL-MW4 02/06/06	UST 7 BBL-MW4 08/06/06	UST 7 BBL-MW5 06/19/96	UST 7 BBL-MW5 05/01/00	UST 7 BBL-MW5 05/19/00
PCBs																
Aroclor-1016	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1221	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1232	mg/L	NA	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00040)	NA	NA
Aroclor-1242	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1248	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020 J)	NA	NA
Aroclor-1254	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1260	mg/L	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Total PCBs	mg/L	NA	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00040)	NA	NA
PCBs-Dissolved																
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides																
None Detected																
Dioxins/Furans																
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Alkalinity, Total (As CaCO3)	mg/L	NA	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	12.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.7 J	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	ND(0.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.1)	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	ND(5)	ND(5)	9.6 BG	9.6 BG	4 B	3 B	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(1)	ND(1)
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135S1 07/21/95	UST 7 MW-135S2 07/21/95	UST 7 MW-135S3 07/21/95	UST 7 MW-135WT 07/21/95	UST 7 MW-135WT 06/18/96	UST 7 MW-135WT 05/01/00	UST 7 MW-135WT 05/18/00	UST 7 MW-135WT 02/04/04	UST 7 MW-135WT 08/04/04	UST 7 MW-135WT 02/21/05	UST 7 MW-135WT 02/22/05	UST 7 MW-135WT 08/05/05	UST 7 MW-135WT 08/23/05
PCBs														
Aroclor-1016	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/L	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Dissolved														
Aroclor-1016 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	ND(0.0004)	ND(0.0004)	ND(0.0004)	ND(0.0004)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides														
None Detected														
Dioxins/Furans														
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous														
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	350	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	7.6	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	ND(0.1)	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	24	146	146	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135WT 02/06/06	UST 7 MW-135WT 08/06/06	UST 7 UST7-1 06/19/96	UST 7 UST7-1 05/01/00	UST 7 UST7-1 05/18/00	UST 7 UST7-2 06/01/96	UST 7 UST7-2 06/19/96	UST 7 UST7-2 05/01/00	UST 7 UST7-2 05/17/00	UST 7 UST7-2 02/04/04	UST 7 UST7-2 08/04/04	UST 7 UST7-2 02/21/05	UST 7 UST7-2 02/22/05	UST 7 UST7-2 08/05/05	UST 7 UST7-2 08/23/05	UST 7 UST7-2 02/06/06
PCBs																	
Aroclor-1016	mg/L	NA	NA	ND(0.00020)	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	mg/L	NA	NA	ND(0.00020)	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	mg/L	NA	NA	ND(0.00040)	NA	NA	NA	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	mg/L	NA	NA	ND(0.00020)	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/L	NA	NA	ND(0.00020)	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/L	NA	NA	ND(0.00020)	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/L	NA	NA	ND(0.00020)	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	ND(0.00040)	NA	NA	NA	ND(0.00040)	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Dissolved																	
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides																	
None Detected																	
Dioxins/Furans																	
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	220	NA	NA	NA	320	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	26.5 J	NA	NA	NA	47.5 J	NA	35	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	44 (IDW)	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.38	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	ND(0.1)	NA	NA	NA	ND(0.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	ND(5) [ND(5)]	ND(5) [ND(5)]	ND(5)	663 (IDW)	663 (IDW)	ND(5)	ND(5)	ND(2 G)	ND(2 G)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(2)	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	25	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 08/06/06	UST 7 UST7-3R 05/01/00	UST 7 UST7-3R 05/19/00	UST 7 UST7-3R 02/04/04	UST 7 UST7-3R 08/04/04	UST 7 UST7-3R 02/21/05	UST 7 UST7-3R 02/22/05	UST 7 UST7-3R 08/05/05	UST 7 UST7-3R 08/23/05	UST 7 UST7-3R 02/06/06	UST 7 UST7-3R 08/06/06	UST 7 UST7-4 06/01/96	UST 7 UST7-4 06/19/96	UST 7 UST7-4 07/31/98	UST 7 UST7-4 05/01/00
PCBs																
Aroclor-1016	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1221	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1232	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00040)	NA	NA
Aroclor-1242	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1248	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1254	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Aroclor-1260	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00040)	NA	NA
PCBs-Dissolved																
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides																
None Detected																
Dioxins/Furans																
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	NA	NA
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.3 J	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.1)	NA	NA
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	ND(5)	27.6	27.6	ND(5)	3 B	ND(5) [ND(5)]	ND(5) [ND(5)]	ND(5)	ND(5)	6	ND(5)	6	6	0.006	30.5
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 05/18/00	UST 7 UST7-4 02/04/04	UST 7 UST7-4 08/04/04	UST 7 UST7-4 02/21/05	UST 7 UST7-4 02/22/05	UST 7 UST7-4 08/05/05	UST 7 UST7-4 08/22/05	UST 7 UST7-4 02/06/06	UST 7 UST7-4 08/06/06	UST 7 UST7-5 06/01/96	UST 7 UST7-5 06/19/96	UST 7 UST7-5 05/01/00	UST 7 UST7-5 05/17/00	UST 7 UST7-5 02/04/04	UST 7 UST7-5 08/04/04	UST 7 UST7-5 02/21/05	
PCBs																		
Aroclor-1016	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	
Aroclor-1221	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	
Aroclor-1232	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00040)	NA	NA	NA	NA	NA	
Aroclor-1242	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	
Aroclor-1248	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	
Aroclor-1254	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	
Aroclor-1260	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00020)	NA	NA	NA	NA	NA	
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00040)	NA	NA	NA	NA	NA	
PCBs-Dissolved																		
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pesticides and Herbicides																		
None Detected																		
Dioxins/Furans																		
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Miscellaneous																		
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	210	NA	NA	NA	NA	NA	
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.3 J	NA	22 [49]	NA	NA	NA	
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29 (IDW) [10]	NA	NA	NA	
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1 [0.8]	NA	NA	NA	
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.1)	NA	NA	NA	NA	NA	
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.05) [ND(0.05)]	NA	NA	NA	
pH (water)	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sulfate	mg/L	30.5	23	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	6	ND(5)	8	8	52.6 [54.2]	52.6 [54.2]	210	ND(5)	99	
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(2) [ND(2)]	NA	NA	NA	
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26 [28]	NA	NA	NA	
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

See Notes in Table 15.

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Table 3. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-5 02/21/05	UST 7 UST7-5 08/05/05	UST 7 UST7-5 08/22/05	UST 7 UST7-5 02/06/06	UST 7 UST7-5 08/06/06	UST 7 UST7-6 06/19/96
PCBs							
Aroclor-1016	mg/L	NA	NA	NA	NA	NA	ND(0.00020)
Aroclor-1221	mg/L	NA	NA	NA	NA	NA	ND(0.00020)
Aroclor-1232	mg/L	NA	NA	NA	NA	NA	ND(0.00040)
Aroclor-1242	mg/L	NA	NA	NA	NA	NA	ND(0.00020)
Aroclor-1248	mg/L	NA	NA	NA	NA	NA	ND(0.00020 J)
Aroclor-1254	mg/L	NA	NA	NA	NA	NA	ND(0.00020)
Aroclor-1260	mg/L	NA	NA	NA	NA	NA	ND(0.00020)
Total PCBs	mg/L	NA	NA	NA	NA	NA	ND(0.00040)
PCBs-Dissolved							
Aroclor-1016 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Aroclor-1221 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Aroclor-1232 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Aroclor-1242 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Aroclor-1248 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Aroclor-1254 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Aroclor-1260 (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Total PCBs (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Pesticides and Herbicides							
None Detected							
Dioxins/Furans							
Total Tetrachlorodibenzofuran (TCDF)	mg/L	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	mg/L	NA	NA	NA	NA	NA	NA
Miscellaneous							
Alkalinity, Total (As CaCO3)	mg/L	NA	NA	NA	NA	NA	180
Ammonia Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand (BOD)	mg/L	NA	NA	NA	NA	NA	NA
Bromide	mg/L	NA	NA	NA	NA	NA	NA
Calcium Carbonate	mg/L	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (COD)	mg/L	NA	NA	NA	NA	NA	NA
Chloride	mg/L	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NA	NA	NA	NA	NA	9.8 J
Iron	mg/L	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA
Nitrate (as N)	mg/L	NA	NA	NA	NA	NA	ND(0.1)
Nitrite (as N)	mg/L	NA	NA	NA	NA	NA	NA
Nitrogen	mg/L	NA	NA	NA	NA	NA	NA
pH (water)	S.U.	NA	NA	NA	NA	NA	NA
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	99	ND(5)	ND(5)	39	ND(5)	ND(5)
Sulfide	mg/L	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	mg/L	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	mg/L	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	FE	GAI	GCC	IDW	IGVIA	Center Street Area MW-4 07/29/95	Center Street Area MW-4 06/10/96	Center Street Area MW-101WT 07/28/95	Center Street Area MW-101WT 06/05/96	Center Street Area MW-101WT 03/12/97
Inorganics											
Aluminum	mg/L	{ID}	{ID}	64,000 {B}	0.24 {B,V}	{NLV}	NA	NA	NA	NA	NA
Arsenic	mg/L	{ID}	{ID}	4.3	0.01 {A}	{NLV}	NA	NA	NA	NA	NA
Barium	mg/L	{ID}	{ID}	14,000 {B}	2 {B,A}	{NLV}	NA	NA	NA	NA	NA
Cadmium	mg/L	{ID}	{ID}	190 {B}	0.005 {B,A}	{NLV}	NA	NA	NA	NA	NA
Calcium	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA
Chromium Total	mg/L	{ID}	{ID}	460	0.1 {A}	{NLV}	NA	NA	NA	NA	NA
Copper	mg/L	{ID}	{ID}	7,400 {B}	1 {B,E}	{NLV}	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	{ID}	{ID}	57 {P,R}	0.2 {P,R,A}	{NLV}	ND(0.00500)	NA	ND(0.00500)	NA	NA
Iron	mg/L	{ID}	{ID}	58,000 {B}	13 {B,E}	{NLV}	NA	NA	NA	0.499	0.0400
Lead	mg/L	{ID}	{ID}	{ID}	0.006 {B,L}	{NLV}	NA	NA	NA	NA	NA
Magnesium	mg/L	{ID}	{ID}	1,000,000 {B,D}	1,100 {B}	{NLV}	NA	NA	NA	NA	NA
Manganese	mg/L	{ID}	{ID}	9,100 {B}	2.1 {B,E}	{NLV}	NA	NA	NA	0.0272	0.00600
Nickel	mg/L	{ID}	{ID}	74,000 {B}	0.1 {B,A}	{NLV}	NA	NA	NA	NA	NA
Potassium	mg/L	--	--	--	--	--	NA	NA	NA	NA	NA
Sodium	mg/L	{ID}	{ID}	1,000,000 {D}	350	{NLV}	NA	NA	NA	NA	NA
Thallium	mg/L	{ID}	{ID}	13 {B}	0.002 {B,A}	{NLV}	NA	NA	NA	NA	NA
Vanadium	mg/L	{ID}	{ID}	970	0.062	{NLV}	NA	NA	NA	NA	NA
Zinc	mg/L	{ID}	{ID}	110,000 {B}	20 {B,E}	{NLV}	NA	NA	NA	NA	NA
Inorganics-Dissolved											
Aluminum (Dissolved)	mg/L	{ID}	{ID}	64,000 {B}	0.24 {B,V}	{NLV}	NA	ND(0.113)	0.237	0.124	NA
Antimony (Dissolved)	mg/L	{ID}	{ID}	68	0.006 {A}	{NLV}	NA	0.0069 {IDW}	ND(0.005)	ND(0.005)	NA
Arsenic (Dissolved)	mg/L	{ID}	{ID}	4.3	0.01 {A}	{NLV}	NA	ND(0.005)	ND(0.001)	ND(0.005)	NA
Barium (Dissolved)	mg/L	{ID}	{ID}	14,000 {B}	2 {B,A}	{NLV}	NA	0.248	ND(0.2)	ND(0.2)	NA
Beryllium (Dissolved)	mg/L	{ID}	{ID}	290	0.004 {A}	{NLV}	NA	ND(0.005)	ND(0.005)	ND(0.005)	NA
Cadmium (Dissolved)	mg/L	{ID}	{ID}	190 {B}	0.005 {B,A}	{NLV}	NA	ND(0.0005)	ND(0.0002 J)	ND(0.0005)	NA
Calcium (Dissolved)	mg/L	--	--	--	--	--	NA	252	95.9	99.7	NA
Chromium Total (Dissolved)	mg/L	{ID}	{ID}	460	0.1 {A}	{NLV}	NA	ND(0.05)	ND(0.05)	ND(0.05)	NA
Copper (Dissolved)	mg/L	{ID}	{ID}	7,400 {B}	1 {B,E}	{NLV}	NA	ND(0.025)	ND(0.025)	ND(0.025)	NA
Cyanide (Dissolved)	mg/L	{ID}	{ID}	57 {P,R}	0.2 {P,R,A}	{NLV}	NA	ND(0.005)	NA	ND(0.005)	NA
Iron (Dissolved)	mg/L	{ID}	{ID}	58,000 {B}	13 {B,E}	{NLV}	NA	1.22 J	0.237	ND(0.1)	0.04
Lead (Dissolved)	mg/L	{ID}	{ID}	{ID}	0.006 {B,L}	{NLV}	NA	ND(0.003)	0.0059	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	{ID}	{ID}	1,000,000 {B,D}	1,100 {B}	{NLV}	NA	88.2	94.5	106	NA
Manganese (Dissolved)	mg/L	{ID}	{ID}	9,100 {B}	2.1 {B,E}	{NLV}	NA	0.28 J	0.048	0.0512	0.007
Nickel (Dissolved)	mg/L	{ID}	{ID}	74,000 {B}	0.1 {B,A}	{NLV}	NA	ND(0.05)	ND(0.05)	ND(0.05)	NA
Potassium (Dissolved)	mg/L	--	--	--	--	--	NA	17.4	ND(5)	ND(5)	NA
Selenium (Dissolved)	mg/L	{ID}	{ID}	970 {B}	0.05 {B,A}	{NLV}	NA	ND(0.005)	ND(0.005)	ND(0.005)	NA
Silver (Dissolved)	mg/L	{ID}	{ID}	1,500 {B}	0.098 {B}	{NLV}	NA	ND(0.0005)	ND(0.0005)	0.0005	NA
Sodium (Dissolved)	mg/L	{ID}	{ID}	1,000,000 {D}	350	{NLV}	NA	220	82.4	87.1	NA
Thallium (Dissolved)	mg/L	{ID}	{ID}	13 {B}	0.002 {B,A}	{NLV}	NA	ND(0.016 J)	ND(0.002 J)	ND(0.004 J)	NA
Vanadium (Dissolved)	mg/L	{ID}	{ID}	970	0.062	{NLV}	NA	ND(0.02)	ND(0.02)	ND(0.02)	NA
Zinc (Dissolved)	mg/L	{ID}	{ID}	110,000 {B}	20 {B,E}	{NLV}	NA	ND(0.02)	ND(0.02)	0.147	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-101WT 05/18/00	Center Street Area MW-102S1 07/25/95	Center Street Area MW-102S1 06/03/96	Center Street Area MW-102WT 07/25/95	Center Street Area MW-102WT 06/03/96	Center Street Area MW-103S1 07/12/95	Center Street Area MW-103S1 06/04/96
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	NA	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.182)	ND(0.1)	0.101
Antimony (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Arsenic (Dissolved)	mg/L	NA	0.001	ND(0.005)	0.0053	0.0053	0.0029	NA
Barium (Dissolved)	mg/L	NA	ND(0.2)	ND(0.2)	0.409	0.449	0.365	0.326
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Cadmium (Dissolved)	mg/L	NA	ND(0.0002 J)	ND(0.0005 J)	ND(0.0002 J)	ND(0.0005)	ND(0.0002)	NA
Calcium (Dissolved)	mg/L	NA	204	217	150	165	206	NA
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA
Copper (Dissolved)	mg/L	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	NA
Cyanide (Dissolved)	mg/L	NA	NA	ND(0.005)	NA	ND(0.005)	NA	NA
Iron (Dissolved)	mg/L	13	0.843	2.96 J	25.9 (IDW)	27.7 J (IDW)	18.6 (IDW)	16.7 J (IDW)
Lead (Dissolved)	mg/L	NA	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	NA	73.9	81.5	71.1	75.2	55.9	NA
Manganese (Dissolved)	mg/L	0.57	0.149	0.179	0.382	0.354	0.627	0.614
Nickel (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA
Potassium (Dissolved)	mg/L	NA	15.5	17.4	11.4	9.6	ND(5)	NA
Selenium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Silver (Dissolved)	mg/L	NA	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005 J)	ND(0.0005)	NA
Sodium (Dissolved)	mg/L	NA	106	122	54.7	44.3	561 (IDW)	504 (IDW)
Thallium (Dissolved)	mg/L	NA	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	NA
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	NA
Zinc (Dissolved)	mg/L	NA	0.056	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-103S2 07/12/95	Center Street Area MW-103S2 06/04/96	Center Street Area MW-103WT 07/12/95	Center Street Area MW-103WT 06/04/96	Center Street Area MW-104S1 07/12/95	Center Street Area MW-104S1 06/04/96	Center Street Area MW-104S2 07/12/95
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	0.00670	NA	0.00800	NA	ND(0.00500)	NA	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	0.169	0.206 [ND(0.1)]	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	0.192
Antimony (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0028	NA	0.0025	NA	0.0122 (IDW)	NA	0.0054
Barium (Dissolved)	mg/L	0.657	0.616 [0.698]	1.03	0.914	0.245	0.326	0.688
Beryllium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)
Calcium (Dissolved)	mg/L	790	NA	20.4	NA	148	NA	763
Chromium Total (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)
Copper (Dissolved)	mg/L	0.027	NA	ND(0.025)	NA	ND(0.025)	NA	0.027
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	21.3 (IDW)	21.2 J (IDW) [24.5 (IDW)]	1.16	6.77 J	21.8 (IDW)	31 (IDW)	20.4 (IDW)
Lead (Dissolved)	mg/L	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)
Magnesium (Dissolved)	mg/L	258	NA	30.9	NA	41.7	NA	251
Manganese (Dissolved)	mg/L	1.06	1.01 [1.18]	0.086	0.328	0.515	0.631	0.946
Nickel (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)
Potassium (Dissolved)	mg/L	27.8	NA	59.3	NA	ND(5)	NA	22.8
Selenium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0005)
Sodium (Dissolved)	mg/L	4,140 (IDW)	3,970 (IDW) [4,660 (IDW)]	419 (IDW)	386 (IDW)	301	355 (IDW)	4,170 (IDW)
Thallium (Dissolved)	mg/L	ND(0.008 J*)	NA	ND(0.002 J)	NA	ND(0.002 J)	NA	ND(0.008 J*)
Vanadium (Dissolved)	mg/L	0.056	NA	ND(0.02)	NA	ND(0.02)	NA	0.054
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-104S2 06/05/96	Center Street Area MW-104WT 07/12/95	Center Street Area MW-104WT 06/04/96	Center Street Area MW-105S1 07/12/95	Center Street Area MW-105S2 07/12/95	Center Street Area MW-105WT 07/12/95	Center Street Area MW-106S1 07/12/95
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	0.0130	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	0.32 (IDW)	ND(0.1)	0.137	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Antimony (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	NA	0.0051	NA	0.0012	ND(0.001 J)	0.0023	0.0012
Barium (Dissolved)	mg/L	0.663	2.29 (IDW)	1.44	0.361	0.65	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0004)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	NA	178	NA	132	365	91.9	84
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	NA	ND(0.025)	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	21.6 (IDW)	27.6 (IDW)	20.7 J (IDW)	8.64	16.4 (IDW)	2.4	1.5
Lead (Dissolved)	mg/L	NA	ND(0.003)	NA	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	NA	95	NA	45.9	117	13	18.9
Manganese (Dissolved)	mg/L	0.968	0.631	0.694	0.44	0.633	0.737	0.496
Nickel (Dissolved)	mg/L	NA	ND(0.05)	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	47.4	NA	5.08	11.6	6.79	ND(5)
Selenium (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	NA	ND(0.0005)	NA	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	3,910 (IDW)	1,630 (IDW)	2,000 (IDW)	381 (IDW)	1,430 (IDW)	41.8	39.9
Thallium (Dissolved)	mg/L	NA	ND(0.004 J*)	NA	ND(0.002 J)	ND(0.004 J*)	ND(0.002 J)	ND(0.002 J)
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	NA	ND(0.02)	0.027	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-106S1 06/07/96	Center Street Area MW-106S2 07/12/95	Center Street Area MW-106S2 06/07/96	Center Street Area MW-106WT 07/12/95	Center Street Area MW-106WT 06/07/96	Center Street Area MW-136S1 07/20/95	Center Street Area MW-136S2 07/20/95
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	NA	ND(0.1)	NA	ND(0.1)	NA	ND(0.1)	ND(0.1)
Antimony (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	NA	0.0025	NA	0.0306 (IDW)	NA	0.0016	0.0012
Barium (Dissolved)	mg/L	NA	ND(0.2)	NA	ND(0.2)	NA	ND(0.2)	0.276
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002 J)	ND(0.0002 J)
Calcium (Dissolved)	mg/L	NA	50.1	NA	92.4	NA	119	199
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	NA	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	R	1.52	ND(0.789)	5.74	7.85	7.06	6.37
Lead (Dissolved)	mg/L	NA	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	NA	14.9	NA	19.6	NA	36.3	66.9
Manganese (Dissolved)	mg/L	0.596	0.583	0.315	1.54	1.97	0.347	0.351
Nickel (Dissolved)	mg/L	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	ND(5)	NA	6.12	NA	ND(5)	5.44
Selenium (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	NA	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	39.2	121	162	44.1	54.3	152	380 (IDW)
Thallium (Dissolved)	mg/L	NA	ND(0.002 J)	NA	ND(0.002 J)	NA	ND(0.002 J)	ND(0.002 J)
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	R	ND(0.02)	ND(0.02)	0.055	0.032	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-136WT 07/20/95	Center Street Area MW-140S1 07/20/95	Center Street Area MW-140S1 06/05/96	Center Street Area MW-140S2 07/20/95	Center Street Area MW-140S2 06/05/96	Center Street Area MW-140WT 07/20/95	Center Street Area MW-140WT 06/05/96
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1)	NA	0.156	NA	0.116	NA
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA
Arsenic (Dissolved)	mg/L	0.0021	0.0102 (IDW)	NA	0.0012	NA	0.0193 (IDW)	NA
Barium (Dissolved)	mg/L	1.16	0.284	NA	0.682	NA	0.236	NA
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA
Cadmium (Dissolved)	mg/L	ND(0.0002 J)	ND(0.0002 J)	NA	ND(0.0002 J)	NA	ND(0.0002 J)	NA
Calcium (Dissolved)	mg/L	28.7	198	NA	703	NA	330	NA
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	3.02	33.2 (IDW)	37.4 (IDW)	21.8 (IDW)	20.4 (IDW)	29.3 (IDW)	20.7 (IDW)
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	39.2	50.4	NA	220	NA	92.5	NA
Manganese (Dissolved)	mg/L	0.047	0.762	0.83	0.968	1.03	1.89	2.13 (IDW)
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA
Potassium (Dissolved)	mg/L	49	ND(5)	NA	17.2	NA	8.9	NA
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005 J)	NA	ND(0.0005)	NA	ND(0.0005 J)	NA
Sodium (Dissolved)	mg/L	296	143	138	3,190 (IDW)	3,350 (IDW)	281	384 (IDW)
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002 J)	NA	ND(0.008 J*)	NA	ND(0.002 J)	NA
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	NA
Zinc (Dissolved)	mg/L	ND(0.02)	0.04	ND(0.02)	ND(0.02)	ND(0.02)	0.035	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area MW-141WT 07/28/95	Center Street Area MW-145WT 07/28/95	Center Street Area MW-145WT 06/04/96	Center Street Area MW-146WT 07/28/95	Center Street Area TW-201WT 02/06/95	Center Street Area TW-203S1 05/23/95	Center Street Area TW-203S2 05/24/95
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	ND(0.00500)	NA	0.0110	0.00600	ND(0.00500 J)	ND(0.00500 J)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	NA	0.1	ND(0.1)	ND(0.1)	ND(0.1)	0.143	0.745 (IDW)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.009	0.0034	NA	0.0069	ND(0.001 J)	ND(0.001)	0.0151 (IDW)
Barium (Dissolved)	mg/L	ND(0.2)	0.999	0.865	0.587	ND(0.2)	0.533	0.932
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002 J)	ND(0.0002 J)	NA	ND(0.0002 J)	ND(0.0002)	R	R
Calcium (Dissolved)	mg/L	NA	14.6	NA	46.7	141	555	2,230
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	NA	ND(0.05)	ND(0.05 J)	ND(0.05 J)	ND(0.05 J)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	0.642	0.468 J	2.14	ND(0.1)	16.5 (IDW)	49.2 (IDW)
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	NA	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	NA	46.9	NA	68	102	202	708
Manganese (Dissolved)	mg/L	NA	0.067	0.0681	0.081	0.265	1.12	1.41
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	53.8	NA	51.4	ND(5)	23.6	62.1
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	NA	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	NA	272	317	306	76.1	2,560 (IDW)	11,200 (IDW)
Thallium (Dissolved)	mg/L	ND(0.008 J*)	ND(0.002 J)	NA	ND(0.002 J)	ND(0.002 J)	ND(0.02 J)	ND(0.04 J)
Vanadium (Dissolved)	mg/L	0.021	ND(0.02)	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	0.048	ND(0.02)	ND(0.02)	ND(0.02)	0.0561	0.524

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Center Street Area TW-203WT 02/03/95	Center Street Area TW-205S1 02/07/95	Center Street Area TW-205S2 02/07/95	Center Street Area TW-205WT 02/06/95	Eastern Type III Landfill B-4AR 07/25/95	Eastern Type III Landfill B-4AR 06/12/96	Eastern Type III Landfill B-4AR 03/09/97
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500 J)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	26.7 (IDW)	2.29
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	1.07	0.170
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1)	0.208	0.144	ND(0.1)	NA	NA
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA
Arsenic (Dissolved)	mg/L	0.0014 J	0.0047	0.0017	0.0049 J	0.0015	NA	NA
Barium (Dissolved)	mg/L	2.43 (IDW)	0.45	0.905	ND(0.2)	ND(0.2)	NA	NA
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	0.0005	ND(0.0002)	ND(0.0002)	NA	NA
Calcium (Dissolved)	mg/L	68.7	238	722	214	37.8	NA	NA
Chromium Total (Dissolved)	mg/L	ND(0.05 J)	ND(0.05 J)	ND(0.05 J)	ND(0.05 J)	ND(0.05)	NA	NA
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	7.03	27 (IDW)	17.3 (IDW)	5.32	ND(0.1)	ND(0.1 J)	1.255
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA	NA
Magnesium (Dissolved)	mg/L	78.7	70.3	220	64.4	36.4	NA	NA
Manganese (Dissolved)	mg/L	0.126	0.576	1.08	0.832	0.203	0.233	0.1535
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	0.12 (IDW)	ND(0.05)	NA	NA
Potassium (Dissolved)	mg/L	56.2	6.39	22.3	ND(5)	14.8	NA	NA
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005 J)	NA	NA
Sodium (Dissolved)	mg/L	53.5	535 (IDW)	3,310 (IDW)	111	56.5	385 (IDW)	NA
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.004 J)	ND(0.008 J)	ND(0.002 J)	ND(0.002 J)	NA	NA
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	NA	NA
Zinc (Dissolved)	mg/L	0.645	1.68	4.26	1.16	ND(0.02)	ND(0.02)	NA

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill B-4AR 06/29/99	Eastern Type III Landfill B-4AR 09/02/99	Eastern Type III Landfill B-4AR 05/23/00	Eastern Type III Landfill B-4BR 07/25/95	Eastern Type III Landfill B-4BR 06/05/96	Eastern Type III Landfill B-4BR 03/09/97
Inorganics							
Aluminum	mg/L	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	0.0720	NA	NA	ND(0.00500)	NA	NA
Iron	mg/L	NA	NA	NA	NA	18.4 (IDW)	1.25
Lead	mg/L	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	0.682	0.0409
Nickel	mg/L	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved							
Aluminum (Dissolved)	mg/L	0.31 J (IDW)	0.2	NA	0.47 (IDW)	NA	NA
Antimony (Dissolved)	mg/L	0.0042	0.0094 (IDW)	NA	ND(0.005)	NA	NA
Arsenic (Dissolved)	mg/L	0.0057	0.0061	NA	0.0012	NA	NA
Barium (Dissolved)	mg/L	0.037	0.031	NA	ND(0.2)	NA	NA
Beryllium (Dissolved)	mg/L	ND(0.001)	ND(0.004 M)	NA	ND(0.005)	NA	NA
Cadmium (Dissolved)	mg/L	0.00087	ND(0.0002)	NA	ND(0.0002)	NA	NA
Calcium (Dissolved)	mg/L	22	22 J	NA	133	NA	NA
Chromium Total (Dissolved)	mg/L	0.0081	0.0052	NA	ND(0.05)	NA	NA
Copper (Dissolved)	mg/L	ND(0.02)	ND(0.007)	NA	ND(0.025)	NA	NA
Cyanide (Dissolved)	mg/L	NA	0.081	NA	NA	NA	NA
Iron (Dissolved)	mg/L	0.65	0.27	1.6	0.137	0.769	0.5281
Lead (Dissolved)	mg/L	0.0093 (IDW)	ND(0.001)	NA	ND(0.003)	NA	NA
Magnesium (Dissolved)	mg/L	11	9.4 J	NA	ND(5)	NA	NA
Manganese (Dissolved)	mg/L	0.06	0.052	0.16	ND(0.02)	0.0267	0.0167
Nickel (Dissolved)	mg/L	ND(0.014)	ND(0.05)	NA	ND(0.05)	NA	NA
Potassium (Dissolved)	mg/L	7.8 J	9.4	NA	8.24	NA	NA
Selenium (Dissolved)	mg/L	ND(0.002)	ND(0.002)	NA	ND(0.005)	NA	NA
Silver (Dissolved)	mg/L	ND(0.0005 J)	0.00051 JM	NA	ND(0.0005 J)	NA	NA
Sodium (Dissolved)	mg/L	130 J	110 J	NA	519 (IDW)	775 (IDW)	NA
Thallium (Dissolved)	mg/L	ND(0.001)	NA	NA	ND(0.002 J)	NA	NA
Vanadium (Dissolved)	mg/L	ND(0.01)	ND(0.01 J)	NA	ND(0.02)	NA	NA
Zinc (Dissolved)	mg/L	ND(0.02)	0.013	NA	0.02	0.0278	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill B-4BR 09/02/99	Eastern Type III Landfill B-4BR 05/22/00	Eastern Type III Landfill B-4CAUG 07/25/95	Eastern Type III Landfill B-4CAUG 06/04/96	Eastern Type III Landfill B-4CAUG 06/29/99	Eastern Type III Landfill B-4CAUG 09/02/99
Inorganics							
Aluminum	mg/L	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	ND(0.00500)	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved							
Aluminum (Dissolved)	mg/L	0.22	NA	1.05 (IDW)	NA	0.89 J (IDW)	0.58 (IDW)
Antimony (Dissolved)	mg/L	0.0027	NA	ND(0.005)	NA	ND(0.002)	0.0051
Arsenic (Dissolved)	mg/L	0.0034	NA	0.0045	NA	0.018 (IDW)	0.02 (IDW)
Barium (Dissolved)	mg/L	0.018	NA	0.309	NA	0.3	0.17
Beryllium (Dissolved)	mg/L	ND(0.006 M)	NA	ND(0.005)	NA	ND(0.004 M)	ND(0.001)
Cadmium (Dissolved)	mg/L	0.0016 J	NA	ND(0.0002)	NA	0.00027	ND(0.0002)
Calcium (Dissolved)	mg/L	15 J	NA	79.5	NA	91	67 J
Chromium Total (Dissolved)	mg/L	0.0081	NA	ND(0.05)	NA	0.0048	0.0031
Copper (Dissolved)	mg/L	ND(0.013)	NA	ND(0.025)	NA	ND(0.02)	ND(0.005)
Cyanide (Dissolved)	mg/L	ND(0.005)	NA	NA	NA	ND(0.005)	ND(0.005)
Iron (Dissolved)	mg/L	0.1	0.23	0.106	0.123 J	0.13	0.047
Lead (Dissolved)	mg/L	ND(0.001)	NA	0.0039	NA	0.0015	ND(0.001)
Magnesium (Dissolved)	mg/L	5.1 J	NA	ND(5)	NA	ND(0.03)	ND(1 J)
Manganese (Dissolved)	mg/L	ND(0.02)	0.019	ND(0.02)	ND(0.02)	0.0041	ND(0.02)
Nickel (Dissolved)	mg/L	ND(0.05 JM)	NA	ND(0.05)	NA	0.11 (IDW)	0.05
Potassium (Dissolved)	mg/L	ND(0.1)	NA	284	NA	130 DJ	96 D
Selenium (Dissolved)	mg/L	ND(0.002)	NA	ND(0.005)	NA	ND(0.002)	ND(0.002)
Silver (Dissolved)	mg/L	ND(0.0005 J)	NA	ND(0.0005 J)	NA	ND(0.0005 J)	ND(0.0005 J)
Sodium (Dissolved)	mg/L	92 J	NA	325	204	130 J	110 J
Thallium (Dissolved)	mg/L	ND(0.001)	NA	ND(0.002 J)	NA	ND(0.001)	ND(0.001)
Vanadium (Dissolved)	mg/L	ND(0.01 J)	NA	ND(0.02)	NA	0.015	0.011 J
Zinc (Dissolved)	mg/L	0.0042 JM	NA	ND(0.02)	ND(0.02)	0.037 J	0.041

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill B-4CAUG 05/23/00	Eastern Type III Landfill B-4DAUG 07/25/95	Eastern Type III Landfill B-4DAUG 06/04/96	Eastern Type III Landfill B-4DAUG 09/02/99	Eastern Type III Landfill B-4DAUG 05/22/00
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500) [ND(0.00500)]	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	NA	0.102 [0.116]	NA	ND(0.2 M) [ND(0.1)]	NA
Antimony (Dissolved)	mg/L	NA	ND(0.005) [ND(0.005)]	NA	ND(0.002) [ND(0.002)]	NA
Arsenic (Dissolved)	mg/L	NA	ND(0.001 J) [ND(0.001 J)]	NA	ND(0.001) [0.005]	NA
Barium (Dissolved)	mg/L	NA	0.269 [0.283]	NA	0.32 [0.072]	NA
Beryllium (Dissolved)	mg/L	NA	ND(0.005) [ND(0.005)]	NA	ND(0.001) [ND(0.001)]	NA
Cadmium (Dissolved)	mg/L	NA	ND(0.0002 J) [ND(0.0002 J)]	NA	ND(0.0002) [ND(0.0002)]	NA
Calcium (Dissolved)	mg/L	NA	261 [273]	NA	280 J [80 J]	NA
Chromium Total (Dissolved)	mg/L	NA	ND(0.05) [ND(0.05)]	NA	ND(0.002) [ND(0.002)]	NA
Copper (Dissolved)	mg/L	NA	ND(0.025) [ND(0.025)]	NA	ND(0.011) [ND(0.007)]	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	ND(0.005) [ND(0.005)]	NA
Iron (Dissolved)	mg/L	0.1	3.41 [3.58]	3.35 J	2 [0.54]	2.9
Lead (Dissolved)	mg/L	NA	ND(0.003) [ND(0.003)]	NA	ND(0.001) [ND(0.001)]	NA
Magnesium (Dissolved)	mg/L	NA	91.5 [96.2]	NA	88 J [12 J]	NA
Manganese (Dissolved)	mg/L	ND(0.01)	0.168 [0.18]	0.183	0.16 [0.33]	0.18
Nickel (Dissolved)	mg/L	NA	ND(0.05) [ND(0.05)]	NA	ND(0.05) [ND(0.05)]	NA
Potassium (Dissolved)	mg/L	NA	8.17 [7.78]	NA	11 [5]	NA
Selenium (Dissolved)	mg/L	NA	ND(0.005) [ND(0.005)]	NA	ND(0.002) [ND(0.002)]	NA
Silver (Dissolved)	mg/L	NA	ND(0.0005) [ND(0.0005)]	NA	ND(0.0005 J) [ND(0.0005 J)]	NA
Sodium (Dissolved)	mg/L	NA	888 (IDW) [932 (IDW)]	1,170 (IDW)	69 J [73 J]	NA
Thallium (Dissolved)	mg/L	NA	ND(0.002 J) [ND(0.002 J)]	NA	ND(0.001) [ND(0.001)]	NA
Vanadium (Dissolved)	mg/L	NA	ND(0.02) [ND(0.02)]	NA	ND(0.01 J) [ND(0.01 J)]	NA
Zinc (Dissolved)	mg/L	NA	0.03 [ND(0.02)]	ND(0.02)	0.011 [0.013]	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Eastern Type III Landfill MW-133S1 07/20/95	Eastern Type III Landfill MW-133S2 07/20/95	Eastern Type III Landfill MW-133WT 07/20/95	Eastern Type III Landfill MW-134S1 07/20/95	Eastern Type III Landfill MW-134S2 07/20/95	Eastern Type III Landfill MW-134WT 07/20/95
Inorganics							
Aluminum	mg/L	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved							
Aluminum (Dissolved)	mg/L	ND(0.1)	0.137 [ND(0.1)]	ND(0.1)	0.111	0.107	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0016	0.0021 [0.0014]	0.0051	0.0016	0.0037	0.0067
Barium (Dissolved)	mg/L	0.279	0.309 [0.301]	ND(0.2)	0.213	0.369	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002 J)	ND(0.0002)
Calcium (Dissolved)	mg/L	130	249 [243]	77.8	140	385	34.7
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	6.66	5.38 [5.13]	1.58	5.75	9.88	3.04
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003) [ND(0.003)]	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	47.4	87.7 [85.8]	16.5	50.4	139	10.3
Manganese (Dissolved)	mg/L	0.292	0.285 [0.281]	0.461	0.383	0.266	0.512
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	5.4 [5.71]	13.8	ND(5)	6.57	27.6
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005) [ND(0.0005)]	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	279	616 (IDW) [599 (IDW)]	651 (IDW)	193	1,140 (IDW)	242
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.004 J*) [ND(0.004 J*)]	ND(0.002 J)	ND(0.002 J)	ND(0.004 J*)	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02)	ND(0.02)	R

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area B-2BAUG 07/29/95	LNAPL Assessment Area B-2R 07/29/95	LNAPL Assessment Area MW-132S1 07/21/95	LNAPL Assessment Area MW-132S1 06/07/96	LNAPL Assessment Area MW-132WT 07/21/95
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	0.00700	ND(0.00500)	NA	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	ND(0.1)	NA	R	NA	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0012	0.0035	0.0124 (IDW)	NA	0.028 (IDW)
Barium (Dissolved)	mg/L	ND(0.2)	0.584	ND(0.2)	NA	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002 J)	ND(0.0002 J)	ND(0.0002 J)	NA	ND(0.0002 J)
Calcium (Dissolved)	mg/L	127	NA	76.8	NA	110
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	NA	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	1.74	NA	3.91	4.92	6.31
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	NA	ND(0.003)
Magnesium (Dissolved)	mg/L	26.9	NA	27.2	NA	30.8
Manganese (Dissolved)	mg/L	0.396	NA	0.179	0.222	0.399
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	NA	8.08	NA	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005 J)	NA	ND(0.0005 J)
Sodium (Dissolved)	mg/L	433 (IDW)	NA	59.6	61.7	86.2
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	NA	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	NA	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	R	0.0206	R

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-132WT 06/06/96	LNAPL Assessment Area MW-147WT 07/30/95	LNAPL Assessment Area MW-151WT 10/20/95	LNAPL Assessment Area MW-152WT 10/20/95	LNAPL Assessment Area MW-152WT 06/05/96
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)	NA
Iron	mg/L	NA	NA	NA	NA	7.44
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	3.51 (IDW)
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	NA	ND(0.1)	0.192	0.104	ND(0.1)
Antimony (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	NA	0.036 (IDW)	0.015 (IDW)	0.0055	ND(0.005)
Barium (Dissolved)	mg/L	NA	0.213	ND(0.2)	ND(0.2)	0.333
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	NA	ND(0.0002 J)	ND(0.0002)	ND(0.0002)	ND(0.0005)
Calcium (Dissolved)	mg/L	NA	183	196	148	359
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.005)
Iron (Dissolved)	mg/L	1.56	11.4	8.31	2.62	5.87
Lead (Dissolved)	mg/L	NA	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	NA	46.9	17	26.7	81.2
Manganese (Dissolved)	mg/L	0.202	2.51 (IDW)	2.17 (IDW)	1.58	4.37 (IDW)
Nickel (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	8.95	10.5	21.2	34.6
Selenium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	NA	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	37	178	81.5	102	239
Thallium (Dissolved)	mg/L	NA	ND(0.002 J)	ND(0.002 W)	ND(0.002 W)	ND(0.004 J)
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-152WT 05/21/00	LNAPL Assessment Area MW-153WT 10/20/95	LNAPL Assessment Area MW-153WT 06/07/96	LNAPL Assessment Area MW-154WT 10/19/95	LNAPL Assessment Area MW-154WT 06/13/96
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	0.0500	NA
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	NA	0.152	ND(0.151)	0.125	ND(0.1)
Antimony (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	NA	0.0508 (IDW)	0.039 (IDW)	0.0246 (IDW)	ND(0.005)
Barium (Dissolved)	mg/L	NA	0.203	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0005 J)	ND(0.0002)	ND(0.0005)
Calcium (Dissolved)	mg/L	NA	183	153	96	73.9
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	ND(0.005 J)	NA	0.053
Iron (Dissolved)	mg/L	2.1	9.5	9.17	3.31	1.36
Lead (Dissolved)	mg/L	NA	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	NA	44.6	42.5	22.1	19.8
Manganese (Dissolved)	mg/L	1	1.21	0.718	0.532	0.217
Nickel (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	14.6	9.02	7.4	7.18
Selenium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	NA	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005 J)
Sodium (Dissolved)	mg/L	NA	200	173	57.4	61.3
Thallium (Dissolved)	mg/L	NA	ND(0.002 W)	ND(0.002 J)	ND(0.002)	ND(0.002 J)
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	LNAPL Assessment Area MW-155WT 10/19/95	LNAPL Assessment Area MW-156WT 10/20/95	LNAPL Assessment Area MW-171WT 03/12/97	LNAPL Assessment Area MW-171WT 05/24/00	LNAPL Assessment Area TW-239WT 02/02/95
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	ND(0.00500) [0.0210]	NA	NA	0.0120 J
Iron	mg/L	NA	NA	8.50	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	1.10	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	0.148	ND(0.1) [0.115]	NA	NA	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	NA	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0233 (IDW)	0.0234 (IDW) [0.0279 (IDW)]	NA	NA	0.023 J (IDW)
Barium (Dissolved)	mg/L	0.208	ND(0.2) [ND(0.2)]	NA	NA	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	NA	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	NA	NA	ND(0.0002 J)
Calcium (Dissolved)	mg/L	166	81.2 [82.9]	NA	NA	148
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	NA	NA	ND(0.05 J)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025) [ND(0.025)]	NA	NA	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	7.28	2.34 [2.37]	8	7.2	3.04
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003) [ND(0.003)]	NA	NA	ND(0.003)
Magnesium (Dissolved)	mg/L	39.6	28.5 [28.8]	NA	NA	36.1
Manganese (Dissolved)	mg/L	1.15	0.315 [0.324]	1.1	0.9	2.46 (IDW)
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	NA	NA	ND(0.05)
Potassium (Dissolved)	mg/L	10.6	ND(5) [ND(5)]	NA	NA	12.3
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	NA	NA	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005) [ND(0.0005)]	NA	NA	ND(0.0005)
Sodium (Dissolved)	mg/L	241	163 [166]	NA	NA	158
Thallium (Dissolved)	mg/L	ND(0.002 W)	ND(0.002 W) [ND(0.002 W)]	NA	NA	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02) [ND(0.02)]	NA	NA	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02) [0.028]	NA	NA	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels B-5BAUG 07/12/95	Northern Drainage Channels B-5CAUG 07/12/95	Northern Drainage Channels B-5R 07/12/95	Northern Drainage Channels MW-5A 07/13/95	Northern Drainage Channels MW-5A 06/08/96
Inorganics						
Aluminum	mg/L	NA	NA	NA	ND(0.100)	ND(0.100)
Arsenic	mg/L	NA	NA	NA	ND(0.00300 J)	ND(0.00500)
Barium	mg/L	NA	NA	NA	ND(0.200)	ND(0.200)
Cadmium	mg/L	NA	NA	NA	ND(0.000200)	ND(0.000500 J)
Calcium	mg/L	NA	NA	NA	118	84.5
Chromium Total	mg/L	NA	NA	NA	ND(0.0500 J)	ND(0.0500)
Copper	mg/L	NA	NA	NA	ND(0.0250)	ND(0.0250)
Cyanide (total)	mg/L	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	5.52	R
Lead	mg/L	NA	NA	NA	ND(0.00300)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	21.3	14.3
Manganese	mg/L	NA	NA	NA	1.88	1.04
Nickel	mg/L	NA	NA	NA	ND(0.0500)	ND(0.0500)
Potassium	mg/L	NA	NA	NA	7.25	7.30
Sodium	mg/L	NA	NA	NA	47.8	50.7
Thallium	mg/L	NA	NA	NA	ND(0.00200 J)	ND(0.00400 J)
Vanadium	mg/L	NA	NA	NA	ND(0.0200)	ND(0.0200)
Zinc	mg/L	NA	NA	NA	ND(0.0200)	ND(0.0200 J)
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	ND(0.1) [0.107]	0.157	NA	ND(0.1)	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0018 [0.0016]	ND(0.001)	0.0135 (IDW)	ND(0.001)	ND(0.005)
Barium (Dissolved)	mg/L	0.226 [0.222]	0.478	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002) [ND(0.0002)]	ND(0.0004)	ND(0.0002 J)	ND(0.0002)	ND(0.0005 J)
Calcium (Dissolved)	mg/L	123 [118]	393	NA	111	84.7
Chromium Total (Dissolved)	mg/L	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.005 J)
Iron (Dissolved)	mg/L	6.29 [6.1]	13.2 (IDW)	NA	2.11	0.921
Lead (Dissolved)	mg/L	ND(0.003) [ND(0.003)]	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	44.3 [43.5]	127	NA	20.1	14.3
Manganese (Dissolved)	mg/L	0.365 [0.348]	0.502	NA	1.8	1.02
Nickel (Dissolved)	mg/L	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5) [ND(5)]	10.1	NA	6.8	7.48
Selenium (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005) [ND(0.0005)]	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	259 [257]	1,860 (IDW)	NA	45.5	51.8
Thallium (Dissolved)	mg/L	ND(0.002 J) [ND(0.002 J)]	ND(0.004 J*)	ND(0.002 J)	ND(0.002 J)	ND(0.004 J)
Vanadium (Dissolved)	mg/L	ND(0.02) [ND(0.02)]	0.035	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02 J)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels MW-5B 07/13/95	Northern Drainage Channels MW-5B 06/08/96	Northern Drainage Channels MW-6A 07/13/95	Northern Drainage Channels MW-6A 06/09/96	Northern Drainage Channels MW-6B 07/13/95
Inorganics						
Aluminum	mg/L	NA	NA	NA	ND(0.100)	NA
Arsenic	mg/L	NA	NA	0.00570	ND(0.00500)	NA
Barium	mg/L	NA	NA	ND(0.200)	ND(0.200)	NA
Cadmium	mg/L	NA	NA	ND(0.000200 J)	ND(0.000500 J)	NA
Calcium	mg/L	NA	NA	NA	124	NA
Chromium Total	mg/L	NA	NA	ND(0.0500)	ND(0.0500)	NA
Copper	mg/L	NA	NA	ND(0.0250)	ND(0.0250)	NA
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	ND(0.100)	NA
Lead	mg/L	NA	NA	ND(0.00300)	ND(0.00300)	NA
Magnesium	mg/L	NA	NA	NA	20.2	NA
Manganese	mg/L	NA	NA	NA	0.844 J	NA
Nickel	mg/L	NA	NA	ND(0.0500)	ND(0.0500)	NA
Potassium	mg/L	NA	NA	NA	8.14	NA
Sodium	mg/L	NA	NA	NA	58.7	NA
Thallium	mg/L	NA	NA	ND(0.00200)	ND(0.00800 J)	NA
Vanadium	mg/L	NA	NA	ND(0.0200)	ND(0.0200)	NA
Zinc	mg/L	NA	NA	0.0250	ND(0.0200)	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1)	NA	ND(0.1)	2.19 (IDW)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.001 J)	ND(0.005)	0.0045	ND(0.005)	ND(0.001 J)
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0005 J)	ND(0.0002 J)	ND(0.0005 J)	ND(0.0002)
Calcium (Dissolved)	mg/L	64.4	66.3	NA	127	56.9
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.107 (IDW)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	ND(0.005 J)	NA	ND(0.005)	NA
Iron (Dissolved)	mg/L	2.41	1.94	NA	ND(0.1)	3.88
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	0.0041	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	25.3	24.7	NA	20.8	20.4
Manganese (Dissolved)	mg/L	0.272	0.259	NA	1.04	0.299
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	ND(5)	NA	8.06	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	404 (IDW)	373 (IDW)	NA	59.9	90.2
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.01 J)	ND(0.002)	ND(0.008 J)	ND(0.002)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02 J)	ND(0.02)	ND(0.02)	0.021

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels MW-6B 06/09/96	Northern Drainage Channels MW-6B 05/20/00	Northern Drainage Channels TW-206WT 02/07/95	Northern Drainage Channels TW-207WT 02/07/95	Northern Drainage Channels TW-208S1 02/14/95
Inorganics						
Aluminum	mg/L	NA	ND(0.100)	NA	NA	NA
Arsenic	mg/L	NA	ND(0.0100)	NA	NA	NA
Barium	mg/L	NA	0.108	NA	NA	NA
Cadmium	mg/L	NA	ND(0.00100)	NA	NA	NA
Calcium	mg/L	NA	72.3	NA	NA	NA
Chromium Total	mg/L	NA	ND(0.00500)	NA	NA	NA
Copper	mg/L	NA	ND(0.0250)	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	2.30	NA	NA	NA
Lead	mg/L	NA	ND(0.00300)	NA	NA	NA
Magnesium	mg/L	NA	21.3	NA	NA	NA
Manganese	mg/L	NA	0.378	NA	NA	NA
Nickel	mg/L	NA	ND(0.0400)	NA	NA	NA
Potassium	mg/L	NA	2.00 BJ	NA	NA	NA
Sodium	mg/L	NA	185	NA	NA	NA
Thallium	mg/L	NA	0.00810 B (IDW)	NA	NA	NA
Vanadium	mg/L	NA	ND(0.0200)	NA	NA	NA
Zinc	mg/L	NA	ND(0.0200)	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	0.184
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.005)	ND(0.01)	ND(0.001)	0.154 (IDW)	ND(0.001 J)
Barium (Dissolved)	mg/L	ND(0.2)	0.106	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.004)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0005)	ND(0.001)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	74.3	71.1	70	105	138
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.005)	ND(0.05 J)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.005)	NA	NA	NA	NA
Iron (Dissolved)	mg/L	2.13 J	2.24	ND(0.1)	0.708 J	0.144 J
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	19.9	20.8	17.8	18.5	18.3
Manganese (Dissolved)	mg/L	0.34 J	0.37	0.824	3.3 (IDW)	1.01
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.04)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	2.02 BJ	ND(5)	ND(5)	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005 J)	ND(0.005 J)
Silver (Dissolved)	mg/L	ND(0.0005 J)	ND(0.005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	83.8	181	40	29	34
Thallium (Dissolved)	mg/L	ND(0.008 J)	ND(0.01)	ND(0.002 J)	ND(0.002)	ND(0.002)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	0.19	ND(0.02)	0.481

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Northern Drainage Channels TW-208S2 02/14/95	Northern Drainage Channels TW-208WT 02/14/95	Northern Drainage Channels TW-209S1 02/14/95	Northern Drainage Channels TW-209S2 02/14/95	Northern Drainage Channels TW-209WT 02/14/95
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	0.179	0.109	0.118	0.103	0.156
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.001 J)	ND(0.001 J)	ND(0.001 J)	ND(0.001 J)	ND(0.001 J)
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	78.3	92.5	128	87.4	82.8
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	0.225 J	ND(0.1)	1.1 J	0.103 J	0.11 J
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	12.8	13.5	20.8	17.2	14
Manganese (Dissolved)	mg/L	0.356	1.68	1.25	0.428	0.562
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	6.87	5.16	ND(5)	8.44
Selenium (Dissolved)	mg/L	ND(0.005 J)	ND(0.005 J)	ND(0.005 J)	ND(0.005 J)	ND(0.005 J)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	178	36.6	45.5	147	39.1
Thallium (Dissolved)	mg/L	ND(0.002 JW)	ND(0.002)	ND(0.002 J)	ND(0.002 JW)	ND(0.002)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	0.208	0.139	0.749	0.062	0.031

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/Buffer Basin B-1BAUG 07/20/95	Parking Lot Area/Buffer Basin B-1CAUG 07/20/95	Parking Lot Area/Buffer Basin B-1DAUG 07/20/95	Parking Lot Area/Buffer Basin B-1R 07/20/95
Inorganics					
Aluminum	mg/L	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA
Inorganics-Dissolved					
Aluminum (Dissolved)	mg/L	ND(0.1)	0.131	ND(0.1)	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0066	0.0068	0.0018	0.0041
Barium (Dissolved)	mg/L	ND(0.2)	0.202	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	175	182	106	77.3
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA
Iron (Dissolved)	mg/L	6.07	11.2	11.7	2.87
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	51.8	46.8	32.5	30
Manganese (Dissolved)	mg/L	0.572	0.886	0.19	0.4
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	ND(5)	55.1	15.5
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005 J)	ND(0.0005 J)	ND(0.0005 J)	ND(0.0005 J)
Sodium (Dissolved)	mg/L	168	152	193	58.3
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	ND(0.002)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	0.043	0.028	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/Buffer Basin MW-130S1 07/20/95	Parking Lot Area/Buffer Basin MW-130S1 06/06/96	Parking Lot Area/Buffer Basin MW-130S2 07/20/95	Parking Lot Area/Buffer Basin MW-130S2 06/06/96
Inorganics					
Aluminum	mg/L	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	NA
Iron	mg/L	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA
Inorganics-Dissolved					
Aluminum (Dissolved)	mg/L	ND(0.1)	NA	ND(0.1)	NA
Antimony (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA
Arsenic (Dissolved)	mg/L	0.023 (IDW)	NA	0.0062	NA
Barium (Dissolved)	mg/L	0.316	NA	0.35	NA
Beryllium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA
Cadmium (Dissolved)	mg/L	ND(0.0002 J)	NA	ND(0.0002)	NA
Calcium (Dissolved)	mg/L	184	NA	167	NA
Chromium Total (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA
Copper (Dissolved)	mg/L	ND(0.025)	NA	ND(0.025)	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA
Iron (Dissolved)	mg/L	28.3 (IDW)	28 (IDW)	18.4 (IDW)	20.1 (IDW)
Lead (Dissolved)	mg/L	ND(0.003)	NA	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	58.3	NA	50.7	NA
Manganese (Dissolved)	mg/L	0.438	0.428	0.285	0.32
Nickel (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA
Potassium (Dissolved)	mg/L	ND(5)	NA	ND(5)	NA
Selenium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA
Silver (Dissolved)	mg/L	ND(0.0005)	NA	ND(0.0005 J)	NA
Sodium (Dissolved)	mg/L	78	80.6	131	137
Thallium (Dissolved)	mg/L	ND(0.002 J)	NA	ND(0.002 J)	NA
Vanadium (Dissolved)	mg/L	ND(0.02)	NA	ND(0.02)	NA
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	0.048	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Parking Lot Area/Buffer Basin MW-130S3 07/20/95	Parking Lot Area/Buffer Basin MW-130S3 06/06/96	Parking Lot Area/Buffer Basin MW-130WT 07/20/95	Parking Lot Area/Buffer Basin MW-130WT 06/06/96	Previous Metal Feedstock B-6BAUG 07/21/95
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	NA	0.00540
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	ND(0.1)	NA	ND(0.1)	NA	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0221 (IDW)	NA	0.0066	NA	0.0063
Barium (Dissolved)	mg/L	ND(0.2)	NA	0.373	NA	0.308
Beryllium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002 J)	NA	ND(0.0002 J)
Calcium (Dissolved)	mg/L	141	NA	92.9	NA	152
Chromium Total (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	10	10.1	37.8 (IDW)	36.4 (IDW)	24.6 (IDW)
Lead (Dissolved)	mg/L	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)
Magnesium (Dissolved)	mg/L	47.3	NA	40.7	NA	47.5
Manganese (Dissolved)	mg/L	0.064	0.0603	0.711	0.717	0.548
Nickel (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)
Potassium (Dissolved)	mg/L	20.3	NA	52.7	NA	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005 J)	NA	ND(0.0005 J)	NA	ND(0.0005)
Sodium (Dissolved)	mg/L	187	182	589 (IDW)	633 (IDW)	92.7
Thallium (Dissolved)	mg/L	ND(0.002 J)	NA	ND(0.002 J)	NA	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)
Zinc (Dissolved)	mg/L	0.045	ND(0.02)	ND(0.02)	0.0314	ND(0.02)

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Previous Metal Feedstock B-6BAUG 06/06/96	Previous Metal Feedstock B-6CAUG 07/21/95	Previous Metal Feedstock B-6CAUG 06/06/96	Previous Metal Feedstock B-6DAUG 07/21/95	Previous Metal Feedstock B-6DAUG 06/06/96
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	ND(0.00500) [ND(0.00500)]	NA
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	ND(0.1) [ND(0.1)]	ND(0.1)	ND(0.1)	ND(0.1) [ND(0.1)]	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	0.0015	ND(0.005)	0.0047 [0.0054]	0.0057
Barium (Dissolved)	mg/L	0.316 [0.31]	0.266	0.304	ND(0.2) [ND(0.2)]	0.205
Beryllium (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0005 J) [ND(0.0005)]	ND(0.0002 J)	ND(0.0005 J)	0.00052 J [0.0153 J (IDW)]	ND(0.0005 J)
Calcium (Dissolved)	mg/L	171 [169]	150	163	180 [180]	208
Chromium Total (Dissolved)	mg/L	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.005 J) [ND(0.005 J)]	NA	ND(0.005 J)	NA	ND(0.005 J)
Iron (Dissolved)	mg/L	29.1 (IDW) [28.7 (IDW)]	16.6 (IDW)	17.6 (IDW)	6.11 [5.99]	6.84
Lead (Dissolved)	mg/L	ND(0.003) [ND(0.003)]	ND(0.003)	ND(0.003)	ND(0.003) [ND(0.003)]	ND(0.003)
Magnesium (Dissolved)	mg/L	53.6 [52.3]	45.4	48.7	63.2 [63.2]	71.3
Manganese (Dissolved)	mg/L	0.615 [0.601]	0.393	0.477	0.111 [0.118]	0.119
Nickel (Dissolved)	mg/L	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5) [ND(5)]	ND(5)	ND(5)	ND(5) [ND(5)]	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005) [ND(0.0005)]	ND(0.0005)	ND(0.0005)	ND(0.0005) [ND(0.0005)]	ND(0.0005)
Sodium (Dissolved)	mg/L	102 [101]	84.9	93.9	429 (IDW) [433 (IDW)]	484 (IDW)
Thallium (Dissolved)	mg/L	ND(0.004 J) [ND(0.004 J)]	ND(0.002 J)	ND(0.002 J)	ND(0.002 J) [ND(0.002 J)]	ND(0.008 J)
Vanadium (Dissolved)	mg/L	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02) [ND(0.02)]	R	ND(0.02)	R [R]	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Previous Metal Feedstock B-6R 07/21/95	Previous Metal Feedstock B-6R 06/06/96	Quench Pit MW-137WT 07/28/95	Quench Pit QPTW-6 04/12/97	Quench Pit QPTW-6 04/13/97	Quench Pit QPTW-7 04/12/97	Quench Pit QPTW-7 04/13/97	Quench Pit QPTW-8 04/12/97	Quench Pit QPTW-8 04/13/97
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	ND(0.100)	NA	ND(0.100)	NA	ND(0.100)
Arsenic	mg/L	NA	NA	NA	NA	0.0158 (IDW)	NA	0.0635 (IDW)	NA	0.00810
Barium	mg/L	NA	NA	NA	NA	ND(0.200)	NA	0.202	NA	ND(0.200)
Cadmium	mg/L	NA	NA	NA	NA	ND(0.000500)	NA	ND(0.000500)	NA	ND(0.000500)
Calcium	mg/L	NA	NA	NA	NA	108	NA	164	NA	129
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	ND(0.0250)	NA	ND(0.0250)	NA	ND(0.0250)
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	0.166	NA	20.0 (IDW)	NA	2.52
Lead	mg/L	NA	NA	NA	NA	ND(0.00300)	NA	ND(0.00300)	NA	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	23.0	NA	32.0	NA	21.6
Manganese	mg/L	NA	NA	NA	NA	0.758	NA	1.86	NA	1.38
Nickel	mg/L	NA	NA	NA	NA	ND(0.0500)	NA	ND(0.0500)	NA	ND(0.0500)
Potassium	mg/L	NA	NA	NA	NA	ND(5.00)	NA	5.06	NA	11.7
Sodium	mg/L	NA	NA	NA	NA	40.9	NA	98.1	NA	30.0
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	ND(0.0200)	NA	ND(0.0200)	NA	ND(0.0200)
Zinc	mg/L	NA	NA	NA	NA	ND(0.0200)	NA	ND(0.0200)	NA	ND(0.0200)
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	R	ND(0.1)	0.126	ND(0.1)	NA	ND(0.1)	NA	ND(0.1)	NA
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA
Arsenic (Dissolved)	mg/L	0.0291 (IDW)	0.0337 (IDW)	0.0091	0.0158 (IDW)	NA	0.0635 (IDW)	NA	0.0081	NA
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	NA	0.202	NA	ND(0.2)	NA
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA
Cadmium (Dissolved)	mg/L	ND(0.0002 J)	ND(0.0005)	ND(0.0002 J)	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0005)	NA
Calcium (Dissolved)	mg/L	62.3	75.2	22.3	108	NA	164	NA	129	NA
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)	NA
Cyanide (Dissolved)	mg/L	NA	ND(0.005 J)	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	26 (IDW)	26.6 (IDW)	ND(0.1)	0.166	NA	20 (IDW)	NA	2.52	NA
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	16.3	18.9	ND(5)	23	NA	32	NA	21.6	NA
Manganese (Dissolved)	mg/L	0.879	0.95	ND(0.02)	0.758	NA	1.86	NA	1.38	NA
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA
Potassium (Dissolved)	mg/L	11	10.8	20.9	ND(5)	NA	5.06	NA	11.7	NA
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA
Silver (Dissolved)	mg/L	ND(0.0005 J)	ND(0.0005)	ND(0.0005)	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	107	94.3	796 (IDW)	40.9	NA	98.1	NA	30	NA
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	0.034	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	NA
Zinc (Dissolved)	mg/L	R	ND(0.02)	ND(0.02)	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	NA

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Quench Pit QPTW-9 04/12/97	Quench Pit QPTW-9 04/13/97	Quench Pit QPTW-11 04/12/97	Quench Pit QPTW-11 04/13/97	Quench Pit QPTW-12 04/12/97	Quench Pit QPTW-12 04/13/97	Quench Pit QPTW-13 04/12/97	Quench Pit QPTW-13 04/13/97	Quench Pit TW-228S1 01/31/95	Quench Pit TW-228WT 01/31/95
Inorganics											
Aluminum	mg/L	NA	ND(0.100)	NA	ND(0.100)	NA	ND(0.100)	NA	ND(0.100)	NA	NA
Arsenic	mg/L	NA	0.0225 (IDW)	NA	0.0145 (IDW)	NA	0.00910	NA	ND(0.00500)	NA	NA
Barium	mg/L	NA	0.339	NA	ND(0.200)	NA	0.220	NA	ND(0.200)	NA	NA
Cadmium	mg/L	NA	ND(0.000500)	NA	ND(0.000500)	NA	ND(0.000500)	NA	ND(0.000500)	NA	NA
Calcium	mg/L	NA	231	NA	129	NA	132	NA	104	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	ND(0.0250)	NA	ND(0.0250)	NA	ND(0.0250)	NA	ND(0.0250)	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	29.9 (IDW)	NA	4.21	NA	ND(0.100)	NA	14.5 (IDW)	NA	NA
Lead	mg/L	NA	ND(0.00300)	NA	ND(0.00300)	NA	ND(0.00300)	NA	ND(0.00300)	NA	NA
Magnesium	mg/L	NA	40.4	NA	23.7	NA	26.5	NA	24.8	NA	NA
Manganese	mg/L	NA	1.37	NA	2.05	NA	7.70 (IDW)	NA	0.625	NA	NA
Nickel	mg/L	NA	ND(0.0500)	NA	ND(0.0500)	NA	ND(0.0500)	NA	ND(0.0500)	NA	NA
Potassium	mg/L	NA	8.02	NA	7.94	NA	ND(5.00)	NA	10.3	NA	NA
Sodium	mg/L	NA	43.2	NA	35.9	NA	43.4	NA	77.3	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	ND(0.0200)	NA	ND(0.0200)	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA
Zinc	mg/L	NA	0.0281	NA	ND(0.0200)	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA
Inorganics-Dissolved											
Aluminum (Dissolved)	mg/L	ND(0.1)	NA	ND(0.1)	NA	ND(0.1)	NA	ND(0.1)	NA	ND(0.1)	0.174
Antimony (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0225 (IDW)	NA	0.0145 (IDW)	NA	0.0091	NA	ND(0.005)	NA	0.0051	0.0016
Barium (Dissolved)	mg/L	0.339	NA	ND(0.2)	NA	0.22	NA	ND(0.2)	NA	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	231	NA	129	NA	132	NA	104	NA	79.8	27.6
Chromium Total (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	29.9 (IDW)	NA	4.21	NA	ND(0.1)	NA	14.5 (IDW)	NA	9.78	0.423
Lead (Dissolved)	mg/L	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	40.4	NA	23.7	NA	26.5	NA	24.8	NA	16.4 J	5.3 J
Manganese (Dissolved)	mg/L	1.37	NA	2.05	NA	0.77	NA	0.625	NA	0.638	0.343
Nickel (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	8.02	NA	7.94	NA	ND(5)	NA	10.3	NA	14.3	12.6
Selenium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005 J)	ND(0.005 J)
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0005)	ND(0.0005 JW)
Sodium (Dissolved)	mg/L	43.2	NA	35.9	NA	43.4	NA	77.3	NA	91.4 J	138 J
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.002 JW)	ND(0.002 JW)
Vanadium (Dissolved)	mg/L	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	0.0281	NA	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)	NA	R	R

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Quench Pit TW-229S1 02/02/95	Quench Pit TW-229WT 01/31/95	Quench Pit TW-231WT 01/31/95	Railyard Area MW-138WT 07/28/95	Railyard Area MW-138WT 06/10/96	Railyard Area MW-138WT 03/12/97	Railyard Area MW-138WT 05/19/00	Railyard Area TW-240WT 02/06/95	Saginaw River Area B-7BAUG 07/17/95
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500 J)	ND(0.00500)	ND(0.00500)	ND(0.00500)	NA	NA	NA	ND(0.00500) [ND(0.00500)]	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	29.8 (IDW)	0.0400	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	1.60	0.00700	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	0.11	ND(0.1)	NA	NA	ND(0.1) [ND(0.1)]	0.354 (IDW)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA	ND(0.005) [ND(0.005)]	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0048 J	0.0011	ND(0.001)	ND(0.001)	ND(0.005)	NA	NA	ND(0.001 J) [ND(0.001 J)]	ND(0.001)
Barium (Dissolved)	mg/L	0.2	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	NA	NA	ND(0.2) [ND(0.2)]	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA	ND(0.005) [ND(0.005)]	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	0.0008	ND(0.0002 J)	ND(0.0005)	NA	NA	ND(0.0002) [ND(0.0002)]	ND(0.0002)
Calcium (Dissolved)	mg/L	150	109	46.5	73.7	80.8	NA	NA	124 [117]	69.7
Chromium Total (Dissolved)	mg/L	ND(0.05 J)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA	NA	ND(0.05 J) [ND(0.05 J)]	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	NA	NA	ND(0.025) [ND(0.025)]	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.005)	NA	NA	NA	NA
Iron (Dissolved)	mg/L	ND(0.1)	0.126	ND(0.1)	ND(0.1)	ND(0.1)	0.02	0.14	ND(0.1) [ND(0.1)]	0.786 J
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA	NA	ND(0.003) [ND(0.003)]	ND(0.003)
Magnesium (Dissolved)	mg/L	32	20.4 J	9.62 J	78.2	99.5	NA	NA	118 [114]	28
Manganese (Dissolved)	mg/L	0.483	0.358	0.18	0.086	0.0233	0.007	0.01	0.315 [0.294]	0.332
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA	NA	ND(0.05) [ND(0.05)]	ND(0.05)
Potassium (Dissolved)	mg/L	9.5	10.1	23.6	ND(5)	ND(5)	NA	NA	ND(5) [5.1]	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005 J)	ND(0.005 J)	ND(0.005)	ND(0.005)	NA	NA	ND(0.005) [ND(0.005)]	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	NA	NA	ND(0.0005) [ND(0.0005)]	ND(0.0005)
Sodium (Dissolved)	mg/L	66.8	49.5 J	354 J (IDW)	64.3	63.9	NA	NA	91.5 [93]	309
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002 J)	ND(0.002 JW)	ND(0.002 J)	ND(0.008 J)	NA	NA	ND(0.002 J) [ND(0.002 J)]	ND(0.002)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	NA	NA	ND(0.02) [ND(0.02)]	ND(0.02)
Zinc (Dissolved)	mg/L	0.041	0.335	R	ND(0.02)	ND(0.02)	NA	NA	ND(0.02) [ND(0.02)]	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area B-7BAUG 06/11/96	Saginaw River Area B-7CAUG 07/17/95	Saginaw River Area B-7CAUG 06/11/96	Saginaw River Area B-7CAUG 05/20/00	Saginaw River Area B-7R 07/17/95	Saginaw River Area B-7R 06/13/96
Inorganics							
Aluminum	mg/L	NA	NA	NA	NA	NA	0.247 (IDW) [0.312 (IDW)]
Arsenic	mg/L	NA	NA	NA	NA	0.00940	0.0115 (IDW) [0.00830]
Barium	mg/L	NA	NA	NA	NA	ND(0.200)	ND(0.200) [ND(0.200)]
Cadmium	mg/L	NA	NA	NA	NA	ND(0.000200 J)	ND(0.000500) [ND(0.000500)]
Calcium	mg/L	NA	NA	NA	NA	NA	65.3 [64.7]
Chromium Total	mg/L	NA	NA	NA	NA	ND(0.0500)	ND(0.0500) [ND(0.0500)]
Copper	mg/L	NA	NA	NA	NA	ND(0.0250)	ND(0.0250) [ND(0.0250)]
Cyanide (total)	mg/L	NA	0.0380	NA	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500) [ND(0.00500)]
Iron	mg/L	NA	NA	NA	NA	NA	1.70 J [0.718 J]
Lead	mg/L	NA	NA	NA	NA	0.00600	ND(0.00300) [ND(0.00300)]
Magnesium	mg/L	NA	NA	NA	NA	NA	11.0 [10.8]
Manganese	mg/L	NA	NA	NA	NA	NA	0.512 [0.397]
Nickel	mg/L	NA	NA	NA	NA	ND(0.0500)	ND(0.0500) [ND(0.0500)]
Potassium	mg/L	NA	NA	NA	NA	NA	ND(5.00) [ND(5.00)]
Sodium	mg/L	NA	NA	NA	NA	NA	28.6 [29.6]
Thallium	mg/L	NA	NA	NA	NA	ND(0.00200)	ND(0.00200 J) [ND(0.00200 J)]
Vanadium	mg/L	NA	NA	NA	NA	ND(0.0200)	ND(0.0200) [ND(0.0200)]
Zinc	mg/L	NA	NA	NA	NA	0.0380	ND(0.0351) [ND(0.0200)]
Inorganics-Dissolved							
Aluminum (Dissolved)	mg/L	ND(0.1)	0.279 (IDW)	0.332 (IDW)	NA	NA	ND(0.1) [ND(0.1)]
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005) [ND(0.005)]
Arsenic (Dissolved)	mg/L	ND(0.005)	ND(0.001 J)	ND(0.005)	NA	0.0074	0.0057 [0.0053]
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	NA	ND(0.2)	ND(0.2) [ND(0.2)]
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005) [ND(0.005)]
Cadmium (Dissolved)	mg/L	ND(0.0005)	ND(0.0002)	ND(0.0005)	NA	ND(0.0002 J)	ND(0.0005) [ND(0.0005)]
Calcium (Dissolved)	mg/L	68.4	229	103	NA	NA	64.3 [58.1]
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)	ND(0.05) [ND(0.05)]
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	NA	ND(0.025)	ND(0.025) [ND(0.025)]
Cyanide (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	ND(0.005) [ND(0.005)]	NA	ND(0.005) [ND(0.005)]
Iron (Dissolved)	mg/L	0.487	0.628 J	ND(0.1)	NA	NA	0.186 J [0.202 J]
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	NA	ND(0.003)	ND(0.003) [ND(0.003)]
Magnesium (Dissolved)	mg/L	26.4	ND(5)	11.3	NA	NA	10.3 [9.34]
Manganese (Dissolved)	mg/L	0.314	ND(0.02)	ND(0.02)	NA	NA	0.267 [0.234]
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)	ND(0.05) [ND(0.05)]
Potassium (Dissolved)	mg/L	ND(5)	17.7	8.23	NA	NA	ND(5) [ND(5)]
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005) [ND(0.005)]
Silver (Dissolved)	mg/L	ND(0.0005 J)	ND(0.0005)	ND(0.0005 J)	NA	ND(0.0005)	ND(0.0005) [ND(0.0005 J)]
Sodium (Dissolved)	mg/L	293	416 (IDW)	351 (IDW)	NA	NA	30.2 [26.9]
Thallium (Dissolved)	mg/L	ND(0.004 J)	ND(0.002 J)	ND(0.004 J)	NA	ND(0.002)	ND(0.002 J) [ND(0.002 J)]
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	NA	ND(0.02)	ND(0.02) [ND(0.02)]
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	NA	ND(0.02)	ND(0.0438) [ND(0.02)]

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area B-7R 06/29/99	Saginaw River Area B-7R 09/02/99	Saginaw River Area B-7R 05/20/00	Saginaw River Area MW-6CAUG 07/13/95	Saginaw River Area MW-6CAUG 06/09/96	Saginaw River Area MW-6DAUG 07/13/95	Saginaw River Area MW-6DAUG 06/09/96
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	ND(0.00500)	NA	ND(0.00500)	NA
Iron	mg/L	0.290	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	0.340	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1 J)	ND(0.1)	NA	ND(0.1)	ND(0.194)	ND(0.1)	ND(0.104)
Antimony (Dissolved)	mg/L	ND(0.002)	0.0026	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0057	0.0048	NA	ND(0.001 J)	ND(0.005)	ND(0.001 J)	ND(0.005)
Barium (Dissolved)	mg/L	0.081	0.073	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.003 M)	0.0016	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	0.00097	ND(0.0002)	NA	ND(0.0002)	ND(0.0005 J)	ND(0.0002)	ND(0.0005 J)
Calcium (Dissolved)	mg/L	76	77 J	NA	104	87	211	201
Chromium Total (Dissolved)	mg/L	ND(0.002)	ND(0.002)	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.02)	ND(0.007)	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	NA	ND(0.005)	NA	ND(0.005)
Iron (Dissolved)	mg/L	R	0.53	0.37	0.129	0.133	ND(0.1)	0.274
Lead (Dissolved)	mg/L	0.0012	0.022 (IDW)	NA	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	12	12 J	NA	ND(5)	20.7	42.9	55.3
Manganese (Dissolved)	mg/L	0.28	0.32	0.54	ND(0.02)	0.0418	0.053	0.153 J
Nickel (Dissolved)	mg/L	ND(0.005)	ND(0.05)	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	3.7 J	5	NA	21.5	10.1	8.5	10.7
Selenium (Dissolved)	mg/L	ND(0.002)	ND(0.002)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005 J)	ND(0.0005 J)	NA	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	83 J	72 J	NA	456 (IDW)	472 (IDW)	659 (IDW)	715 (IDW)
Thallium (Dissolved)	mg/L	ND(0.001)	ND(0.002)	NA	ND(0.002 J)	ND(0.016 J)	ND(0.002 J)	ND(0.016 J)
Vanadium (Dissolved)	mg/L	ND(0.01)	ND(0.01 J)	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	0.013	NA	0.021	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-107S1 07/12/95	Saginaw River Area MW-107S1 06/07/96	Saginaw River Area MW-107S2 07/12/95	Saginaw River Area MW-107S2 06/07/96	Saginaw River Area MW-107WT 07/12/95	Saginaw River Area MW-107WT 06/07/96	Saginaw River Area MW-108S1 07/13/95
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	2.02 (IDW)	0.234	NA
Arsenic	mg/L	NA	NA	NA	NA	0.00230	ND(0.00500)	NA
Barium	mg/L	NA	NA	NA	NA	ND(0.200)	ND(0.200)	NA
Cadmium	mg/L	NA	NA	NA	NA	ND(0.000200 J)	ND(0.000500 J)	NA
Calcium	mg/L	NA	NA	NA	NA	87.1	84.2	NA
Chromium Total	mg/L	NA	NA	NA	NA	ND(0.0500)	ND(0.0500)	NA
Copper	mg/L	NA	NA	NA	NA	ND(0.0250)	ND(0.0250)	NA
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	5.31	0.511 J	NA
Lead	mg/L	NA	NA	NA	NA	0.00320	ND(0.00300)	NA
Magnesium	mg/L	NA	NA	NA	NA	15.8	13.0	NA
Manganese	mg/L	NA	NA	NA	NA	0.446	0.0383 J	NA
Nickel	mg/L	NA	NA	NA	NA	ND(0.0500)	ND(0.0500)	NA
Potassium	mg/L	NA	NA	NA	NA	7.38	6.19	NA
Sodium	mg/L	NA	NA	NA	NA	69.0	56.6	NA
Thallium	mg/L	NA	NA	NA	NA	ND(0.00200 J)	ND(0.00200 J)	NA
Vanadium	mg/L	NA	NA	NA	NA	ND(0.0200)	ND(0.0200)	NA
Zinc	mg/L	NA	NA	NA	NA	R	ND(0.0200)	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.134)	ND(0.1)	ND(0.1)	0.11	ND(0.1)	0.187
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0011	ND(0.005)	0.001	ND(0.005)	0.0016	ND(0.005)	0.0114 (IDW)
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0005 J)	ND(0.0002)	ND(0.0005)	ND(0.0002 J)	ND(0.0005 J)	ND(0.0002)
Calcium (Dissolved)	mg/L	35.4	45.2	113	109	87.8	83.8	70.9
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	ND(0.005 J)	NA	ND(0.005 J)	NA	ND(0.005 J)	NA
Iron (Dissolved)	mg/L	1.01	ND(0.819)	1.67	R	0.109	ND(0.1)	2.77
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	8.53	10.8	25.7	29.4	15.3	12.9	13
Manganese (Dissolved)	mg/L	0.202	0.249	0.823	0.738	0.295	ND(0.02)	1.23
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	ND(5)	ND(5)	ND(5)	7.38	5.82	6.11
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005 J)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	101	106	105	109	70.3	55.1	41.6
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	ND(0.004 J)	ND(0.002 J)	ND(0.004 J)	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-108S1 06/08/96	Saginaw River Area MW-108S1 06/29/99	Saginaw River Area MW-108S1 09/02/99	Saginaw River Area MW-108S1 05/23/00	Saginaw River Area MW-108S2 07/13/95	Saginaw River Area MW-108S2 06/08/96	Saginaw River Area MW-108S3 07/13/95
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	ND(0.00500)	NA	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	0.13 J	ND(0.1)	NA	ND(0.1)	0.225	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.002)	0.0028	NA	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.005)	0.007	0.0067	NA	ND(0.001 J)	ND(0.005)	ND(0.001 J)
Barium (Dissolved)	mg/L	ND(0.2)	0.056	0.042	NA	ND(0.2)	ND(0.2)	0.208
Beryllium (Dissolved)	mg/L	ND(0.005)	0.0095 (IDW)	ND(0.001)	NA	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0005)	0.00028	ND(0.0002)	NA	ND(0.0002)	ND(0.0005 J)	ND(0.0002)
Calcium (Dissolved)	mg/L	75	44	39 J	NA	44.2	50.5	181
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.002)	ND(0.002)	NA	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.02)	ND(0.008)	NA	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.005 J)	ND(0.005)	ND(0.005)	NA	NA	ND(0.005 J)	NA
Iron (Dissolved)	mg/L	4.3	3.2	2.2	6.5	1.06	1.38	1.44
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.001)	ND(0.001)	NA	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	12.6	9.3	6.9 J	NA	13.3	13.8	69
Manganese (Dissolved)	mg/L	0.923	1.1	1.4	1.1	0.2	0.233	0.732
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.005)	ND(0.05)	NA	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	8.23	7.7 J	9.1	NA	ND(5)	ND(5)	5.64
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.002)	ND(0.002)	NA	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005 J)	ND(0.0005 J)	NA	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	48	88 J	59 J	NA	306	234	725 (IDW)
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.001)	ND(0.001)	NA	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.01)	ND(0.01 J)	NA	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02 J)	ND(0.02)	0.022 JM	NA	ND(0.02)	ND(0.0217)	ND(0.02)

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-108S3 06/08/96	Saginaw River Area MW-108S4 07/13/95	Saginaw River Area MW-108S4 06/08/96	Saginaw River Area MW-108S4 05/21/00	Saginaw River Area MW-108WT 07/13/95	Saginaw River Area MW-108WT 06/08/96	Saginaw River Area MW-108WT 05/21/00
Inorganics								
Aluminum	mg/L	NA	NA	NA	ND(0.100)	6.93 (IDW)	ND(0.100)	0.144
Arsenic	mg/L	NA	NA	NA	0.00340 B	0.00830 J	ND(0.00500)	ND(0.0100)
Barium	mg/L	NA	NA	NA	0.670	ND(0.200)	ND(0.200)	0.0456 B
Cadmium	mg/L	NA	NA	NA	ND(0.00100)	0.00110	ND(0.000500 J)	ND(0.00100)
Calcium	mg/L	NA	NA	NA	402	99.7	86.7	67.9
Chromium Total	mg/L	NA	NA	NA	ND(0.00500)	ND(0.0500 J)	ND(0.0500)	ND(0.00500)
Copper	mg/L	NA	NA	NA	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	NA	ND(0.00500)	ND(0.00500)	NA
Iron	mg/L	NA	NA	NA	ND(0.104)	58.3 (IDW)	2.38	3.81
Lead	mg/L	NA	NA	NA	ND(0.00300)	0.0415 (IDW)	ND(0.00300)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	0.500 J	17.1	14.6	13.9
Manganese	mg/L	NA	NA	NA	ND(0.0150)	4.80 (IDW)	0.933	1.23
Nickel	mg/L	NA	NA	NA	ND(0.0400)	ND(0.0500)	ND(0.0500)	ND(0.0400)
Potassium	mg/L	NA	NA	NA	156	9.54	10.3	8.81 J
Sodium	mg/L	NA	NA	NA	408 (IDW)	59.6	57.7	102
Thallium	mg/L	NA	NA	NA	0.00380 B (IDW)	ND(0.00200)	ND(0.00400 J)	ND(0.0100)
Vanadium	mg/L	NA	NA	NA	ND(0.0200)	ND(0.0200 J)	ND(0.0200)	ND(0.0200)
Zinc	mg/L	NA	NA	NA	ND(0.0200)	0.0770	ND(0.0200 J)	ND(0.0200)
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	0.15	0.192	ND(0.163)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.0017 B
Arsenic (Dissolved)	mg/L	ND(0.005)	ND(0.001 J)	ND(0.005)	ND(0.01)	ND(0.001 J)	ND(0.005)	ND(0.01)
Barium (Dissolved)	mg/L	0.257	0.216	0.244	0.731	ND(0.2)	ND(0.2)	0.0448 B
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.004)	ND(0.005)	ND(0.005)	ND(0.004)
Cadmium (Dissolved)	mg/L	ND(0.0005 J)	ND(0.0002)	ND(0.0005 J)	ND(0.001)	ND(0.0002)	ND(0.0005 J)	ND(0.001)
Calcium (Dissolved)	mg/L	231	315	267	449	95.8	90.2	67.5
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	0.0044 BMBE	ND(0.05)	ND(0.05)	ND(0.005)
Copper (Dissolved)	mg/L	ND(0.025)	0.031	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.005 J)	NA	ND(0.005)	NA	NA	ND(0.005 J)	NA
Iron (Dissolved)	mg/L	1.95	2.97	1.77 J	ND(0.1)	1.9	2.21	3.58
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	82.2	133	126	ND(0.1)	17.4	15.2	13.9
Manganese (Dissolved)	mg/L	0.917	0.695	0.702 J	ND(0.015)	1.26	0.968	1.22
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.04)	ND(0.05)	ND(0.05)	ND(0.04)
Potassium (Dissolved)	mg/L	6.36	29.6	16.2	171 J	9.78	10.8	8.75 J
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.005)	ND(0.0005)	ND(0.0005)	ND(0.005)
Sodium (Dissolved)	mg/L	837 (IDW)	1,340 (IDW)	1,010 (IDW)	431 (IDW)	61.8	60.1	101
Thallium (Dissolved)	mg/L	ND(0.016 J)	ND(0.004 J)	ND(0.016 J)	ND(0.01)	ND(0.002)	ND(0.004 J)	0.0053 B (IDW)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	0.066	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02 J)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-108WT 06/02/04	Saginaw River Area MW-109WT 07/13/95	Saginaw River Area MW-109WT 06/12/96	Saginaw River Area MW-109WT 05/21/00	Saginaw River Area MW-110WT 06/12/96	Saginaw River Area MW-110WT 12/10/97	Saginaw River Area MW-111S1 07/14/95
Inorganics								
Aluminum	mg/L	NA	16.4 (IDW)	ND(0.100)	ND(0.100)	0.111	NA	NA
Arsenic	mg/L	NA	0.0156 J (IDW)	ND(0.00500)	ND(0.0100)	0.00730	NA	NA
Barium	mg/L	NA	ND(0.200)	ND(0.200)	0.0249 B	ND(0.200)	NA	NA
Cadmium	mg/L	NA	0.000550	ND(0.000500)	ND(0.00100)	ND(0.000500)	NA	NA
Calcium	mg/L	NA	98.1	68.1	66.8	65.3	NA	NA
Chromium Total	mg/L	NA	0.0600 J	ND(0.0500)	ND(0.00500)	ND(0.0500)	NA	NA
Copper	mg/L	NA	0.0420	ND(0.0250)	ND(0.0250)	ND(0.0250)	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)
Iron	mg/L	NA	29.9 (IDW)	0.298 J	ND(0.100)	3.09 J	NA	NA
Lead	mg/L	NA	0.0541 (IDW)	ND(0.00300)	ND(0.00300)	ND(0.00300)	NA	NA
Magnesium	mg/L	NA	24.6	11.5	12.6	11.9	NA	NA
Manganese	mg/L	NA	2.83 (IDW)	1.02	ND(0.0150)	0.460	NA	NA
Nickel	mg/L	NA	0.0510	ND(0.0500)	ND(0.0400)	ND(0.0500)	NA	NA
Potassium	mg/L	NA	8.95	7.11	10.1 J	ND(5.00)	NA	NA
Sodium	mg/L	NA	34.9	38.9	78.0	33.7	NA	NA
Thallium	mg/L	ND(0.00100)	ND(0.00200 J)	ND(0.00200 J)	ND(0.0100)	ND(0.00200 J)	NA	NA
Vanadium	mg/L	NA	0.0310	ND(0.0200)	ND(0.0200)	ND(0.0200)	NA	NA
Zinc	mg/L	NA	0.115	ND(0.0200)	ND(0.0200)	ND(0.0962)	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	NA	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	NA	ND(0.1)
Antimony (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	0.0022 B	ND(0.005)	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	NA	0.0169 (IDW)	ND(0.005)	ND(0.01)	0.0056	ND(0.005)	0.0185 (IDW)
Barium (Dissolved)	mg/L	NA	ND(0.2)	ND(0.2)	0.0243 B	ND(0.2)	0.54	0.214
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.004)	ND(0.005)	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	NA	ND(0.0002)	ND(0.0005)	ND(0.001)	ND(0.0005)	ND(0.0005)	ND(0.0002)
Calcium (Dissolved)	mg/L	NA	67.5	72.4	65.2	66.6	NA	148
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	0.0012 BMBE	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	ND(0.005)	NA	ND(0.005)	NA	NA
Iron (Dissolved)	mg/L	NA	0.13	0.363 J	ND(0.1)	2.53 J	3.5	11.5
Lead (Dissolved)	mg/L	NA	0.0146 (IDW)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	0.0056
Magnesium (Dissolved)	mg/L	NA	11.6	12.3	12.3	12	NA	25.6
Manganese (Dissolved)	mg/L	NA	0.734	1	ND(0.015)	0.459	NA	1.9
Nickel (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05)	ND(0.04)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	6.43	7.34	9.95 J	ND(5)	NA	7.26
Selenium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.0056	ND(0.005)
Silver (Dissolved)	mg/L	NA	ND(0.0005)	ND(0.0005 J)	ND(0.005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	NA	32.1	40	76.7	34.8	NA	71.7
Thallium (Dissolved)	mg/L	NA	ND(0.002)	ND(0.002 J)	ND(0.01)	ND(0.002 J)	NA	ND(0.002)
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	NA	ND(0.02)
Zinc (Dissolved)	mg/L	NA	ND(0.02)	ND(0.0729)	ND(0.02)	ND(0.022)	0.021	R

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111S1 06/12/96	Saginaw River Area MW-111S2 07/13/95	Saginaw River Area MW-111S2 06/10/96	Saginaw River Area MW-111S3 07/13/95	Saginaw River Area MW-111S3 06/10/96	Saginaw River Area MW-111S4 07/14/95	Saginaw River Area MW-111S4 06/10/96
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500) [ND(0.00500)]	NA	ND(0.00500)	NA	ND(0.00500)	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1) [ND(0.1)]	ND(0.142)	0.138	1.3 (IDW)	0.158	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0065	ND(0.001 J) [0.001 J]	ND(0.005)	ND(0.001 J)	ND(0.005)	ND(0.001)	ND(0.005)
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2) [ND(0.2)]	ND(0.2)	0.438	ND(0.2)	0.381	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0005)	ND(0.0002) [ND(0.0002)]	ND(0.0005 J)	ND(0.0002)	ND(0.0005 J)	ND(0.0002)	ND(0.0005 J)
Calcium (Dissolved)	mg/L	62.8	64.1 [59]	75.5	572	168	603	382
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Iron (Dissolved)	mg/L	3.61 J	3.24 [3.07]	4.39 J	ND(0.1)	0.179	ND(0.1)	ND(0.1)
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003) [ND(0.003)]	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	11.3	17.6 [16.2]	20.3	ND(5)	ND(5)	ND(5)	ND(5)
Manganese (Dissolved)	mg/L	0.597	0.34 [0.316]	0.404 J	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	ND(5) [ND(5)]	ND(5)	75.2	9.8	37.9	17.7
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005 J)	ND(0.0005) [ND(0.0005)]	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	28.7	54 [51.9]	50	202	228	542 (IDW)	550 (IDW)
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002) [ND(0.002)]	ND(0.008 J)	ND(0.002 J)	ND(0.016 J)	ND(0.002 J)	ND(0.016 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	0.032 [0.041]	ND(0.0421)	ND(0.02)	ND(0.0288)	R	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111S4 07/02/99	Saginaw River Area MW-111S4 09/02/99	Saginaw River Area MW-111S4 05/23/00	Saginaw River Area MW-111WT 07/14/95	Saginaw River Area MW-111WT 06/12/96	Saginaw River Area MW-111WT 06/30/99	Saginaw River Area MW-111WT 09/02/99
Inorganics								
Aluminum	mg/L	NA	NA	NA	19.7 (IDW)	ND(0.100)	NA	NA
Arsenic	mg/L	NA	NA	NA	0.0240 J (IDW)	0.0367 (IDW)	NA	NA
Barium	mg/L	NA	NA	NA	0.401	0.614	NA	NA
Cadmium	mg/L	NA	NA	NA	0.00230	ND(0.000500 J)	NA	NA
Calcium	mg/L	NA	NA	NA	309	375	NA	NA
Chromium Total	mg/L	NA	NA	NA	0.117 J (IDW)	ND(0.0500)	NA	NA
Copper	mg/L	NA	NA	NA	0.0396	ND(0.0250)	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	ND(0.00500)	ND(0.00500)	NA	NA
Iron	mg/L	ND(0.100)	NA	NA	54.6 (IDW)	40.2 J (IDW)	18.0 (IDW)	NA
Lead	mg/L	NA	NA	NA	0.0278 (IDW)	ND(0.00300)	NA	NA
Magnesium	mg/L	NA	NA	NA	94.2	61.1	NA	NA
Manganese	mg/L	0.00930	NA	NA	3.74 (IDW)	4.44 (IDW)	2.10	NA
Nickel	mg/L	NA	NA	NA	0.0968	ND(0.0500)	NA	NA
Potassium	mg/L	NA	NA	NA	9.12	10.9	NA	NA
Sodium	mg/L	NA	NA	NA	67.1	160	NA	NA
Thallium	mg/L	NA	NA	NA	ND(0.00200 J)	ND(0.00800 J)	NA	NA
Vanadium	mg/L	NA	NA	NA	0.0452	ND(0.0200)	NA	NA
Zinc	mg/L	NA	NA	NA	R	ND(0.0200)	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.3)	ND(0.1)	NA	ND(0.1)	ND(0.1)	ND(0.1 J)	ND(0.1)
Antimony (Dissolved)	mg/L	0.0021	ND(0.002)	NA	ND(0.005)	ND(0.005)	0.002	ND(0.002)
Arsenic (Dissolved)	mg/L	ND(0.001)	ND(0.001)	NA	0.018 (IDW)	0.0111 (IDW)	0.014 (IDW)	0.017 (IDW)
Barium (Dissolved)	mg/L	0.08	0.076	NA	0.202	0.451	0.26	0.3
Beryllium (Dissolved)	mg/L	ND(0.007)	0.0011 JM	NA	ND(0.005)	ND(0.005)	ND(0.001)	0.0031 JM
Cadmium (Dissolved)	mg/L	ND(0.0006)	ND(0.0002)	NA	ND(0.0002)	ND(0.0005)	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	230	200 J	NA	141	330	150	180 J
Chromium Total (Dissolved)	mg/L	ND(0.002)	ND(0.002)	NA	ND(0.05)	ND(0.05)	ND(0.002)	ND(0.002)
Copper (Dissolved)	mg/L	ND(0.02)	ND(0.007)	NA	ND(0.025)	ND(0.025)	ND(0.02)	ND(0.007)
Cyanide (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)
Iron (Dissolved)	mg/L	ND(0.1)	ND(0.02)	ND(0.05)	10.7	21.4 J (IDW)	8.9 J	18 (IDW)
Lead (Dissolved)	mg/L	ND(0.001)	ND(0.001)	NA	0.003	ND(0.003)	0.0018	ND(0.001)
Magnesium (Dissolved)	mg/L	9.1	12 J	NA	23.6	54	27	29 J
Manganese (Dissolved)	mg/L	ND(0.003)	ND(0.02)	ND(0.01)	1.8	3.91 (IDW)	2 J	2.2 (IDW)
Nickel (Dissolved)	mg/L	0.0063	ND(0.05 JM)	NA	ND(0.05)	ND(0.05)	ND(0.005)	ND(0.05)
Potassium (Dissolved)	mg/L	10	11	NA	6.55	9.91	5.6 J	8.1
Selenium (Dissolved)	mg/L	0.003	ND(0.002)	NA	ND(0.005)	ND(0.005)	ND(0.002)	ND(0.002)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005 J)	NA	ND(0.0005)	ND(0.0005 J)	ND(0.0005 J)	ND(0.0005)
Sodium (Dissolved)	mg/L	130	110 J	NA	65.3	142	74 J	69 J
Thallium (Dissolved)	mg/L	ND(0.001)	ND(0.001)	NA	ND(0.002)	ND(0.002 J)	ND(0.001)	ND(0.001)
Vanadium (Dissolved)	mg/L	ND(0.01)	ND(0.01 J)	NA	ND(0.02)	ND(0.02)	ND(0.01)	ND(0.01)
Zinc (Dissolved)	mg/L	0.067	0.013	NA	R	ND(0.02)	ND(0.02)	0.013

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-111WT 05/19/00	Saginaw River Area MW-111WT 06/02/04	Saginaw River Area MW-111WT 08/26/05	Saginaw River Area MW-112WT 07/17/95	Saginaw River Area MW-112WT 06/12/96	Saginaw River Area MW-112WT 06/30/99	Saginaw River Area MW-112WT 09/02/99
Inorganics								
Aluminum	mg/L	ND(0.100)	NA	NA	11.5 (IDW)	ND(0.100)	NA	NA
Arsenic	mg/L	0.0114 (IDW)	NA	NA	0.00330	ND(0.00500)	NA	NA
Barium	mg/L	0.356	NA	NA	ND(0.200)	ND(0.200)	NA	NA
Cadmium	mg/L	ND(0.00100)	NA	NA	0.000590	ND(0.000500)	NA	NA
Calcium	mg/L	321	NA	NA	166	259	NA	NA
Chromium Total	mg/L	ND(0.00500)	NA	NA	0.0810	ND(0.0500)	NA	NA
Copper	mg/L	ND(0.0250)	NA	NA	0.0540	ND(0.0250)	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	ND(0.00500)	ND(0.00500)	NA	NA
Iron	mg/L	18.3 (IDW)	NA	NA	69.4 J (IDW)	3.63 J	NA	NA
Lead	mg/L	ND(0.00300)	NA	NA	0.0477 (IDW)	ND(0.00300)	NA	NA
Magnesium	mg/L	47.8	NA	NA	28.6	45.6	NA	NA
Manganese	mg/L	2.56 (IDW)	1.09	1.68 [1.52]	4.42 (IDW)	1.12	NA	NA
Nickel	mg/L	ND(0.0400)	NA	NA	ND(0.0500)	ND(0.0500)	NA	NA
Potassium	mg/L	15.5	NA	NA	8.19	22.5	NA	NA
Sodium	mg/L	171	NA	NA	71.0	174	NA	NA
Thallium	mg/L	0.00790 B (IDW)	NA	NA	ND(0.00200)	ND(0.00200 J)	NA	NA
Vanadium	mg/L	ND(0.0200)	NA	NA	0.0260	ND(0.0200)	NA	NA
Zinc	mg/L	ND(0.0200)	NA	NA	R	ND(0.0200)	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	NA	NA	ND(0.1)	ND(0.1)	0.11 J	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.005)	ND(0.005)	ND(0.002)	0.0029
Arsenic (Dissolved)	mg/L	0.0098 B	NA	NA	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)
Barium (Dissolved)	mg/L	0.376	NA	NA	ND(0.2)	ND(0.2)	0.052	0.038
Beryllium (Dissolved)	mg/L	ND(0.004)	NA	NA	ND(0.005)	ND(0.005)	ND(0.003 M)	ND(0.001)
Cadmium (Dissolved)	mg/L	ND(0.001)	NA	NA	ND(0.0004)	ND(0.0005)	0.00042	ND(0.0002)
Calcium (Dissolved)	mg/L	379	NA	NA	142	263	80	64 J
Chromium Total (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.05)	ND(0.05)	ND(0.002)	ND(0.002)
Copper (Dissolved)	mg/L	ND(0.025)	NA	NA	ND(0.025)	ND(0.025)	ND(0.02)	ND(0.007)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)
Iron (Dissolved)	mg/L	14.4 (IDW)	NA	NA	0.4 J	3.31 J	5.9	4.5
Lead (Dissolved)	mg/L	ND(0.003)	NA	NA	ND(0.003)	ND(0.003)	0.0087 (IDW)	0.002
Magnesium (Dissolved)	mg/L	54.3	NA	NA	24.5	46.4	14	9.7 J
Manganese (Dissolved)	mg/L	2.34 (IDW)	NA	1.61 [1.46]	1.41	1.02	2	1.3
Nickel (Dissolved)	mg/L	ND(0.04)	NA	NA	ND(0.05)	ND(0.05)	ND(0.005)	ND(0.05)
Potassium (Dissolved)	mg/L	18.5	NA	NA	7.78	22.5	7.8 J	9.7
Selenium (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.005)	ND(0.005)	ND(0.002)	ND(0.002)
Silver (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.0005)	ND(0.0005 J)	ND(0.0005 J)	ND(0.0005 J)
Sodium (Dissolved)	mg/L	196	NA	NA	72.2	177	93 J	67 J
Thallium (Dissolved)	mg/L	0.0076 B (IDW)	NA	NA	ND(0.002)	ND(0.002 J)	ND(0.001)	ND(0.001)
Vanadium (Dissolved)	mg/L	ND(0.02)	NA	NA	ND(0.02)	ND(0.02)	ND(0.01)	ND(0.01 J)
Zinc (Dissolved)	mg/L	ND(0.02)	NA	NA	ND(0.02)	ND(0.0261)	ND(0.02)	0.013

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-112WT 05/20/00	Saginaw River Area MW-112WT 06/03/04	Saginaw River Area MW-112WT 08/25/05	Saginaw River Area MW-113WT 07/17/95	Saginaw River Area MW-113WT 06/13/96	Saginaw River Area MW-114S1 07/17/95	Saginaw River Area MW-114S1 06/07/96
Inorganics								
Aluminum	mg/L	ND(0.100)	NA	NA	2.57 J (IDW)	0.200	NA	NA
Arsenic	mg/L	ND(0.0100)	NA	NA	0.0172 J (IDW)	0.00930 J	NA	NA
Barium	mg/L	0.0555 B	NA	NA	ND(0.200)	ND(0.200)	NA	NA
Cadmium	mg/L	ND(0.00100)	NA	NA	0.000300 J	ND(0.000500)	NA	NA
Calcium	mg/L	128	NA	NA	76.4	121	NA	NA
Chromium Total	mg/L	ND(0.00500)	NA	NA	ND(0.0500)	ND(0.0500)	NA	NA
Copper	mg/L	ND(0.0250)	NA	NA	ND(0.0250)	ND(0.0250)	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)	NA
Iron	mg/L	7.00	NA	NA	7.18	0.943 J	NA	NA
Lead	mg/L	ND(0.00300)	NA	NA	0.0167 (IDW)	ND(0.00300)	NA	NA
Magnesium	mg/L	27.5	NA	NA	14.8	19.6	NA	NA
Manganese	mg/L	2.06	NA	NA	0.737	0.986	NA	NA
Nickel	mg/L	ND(0.0400)	NA	NA	ND(0.0500)	ND(0.0500)	NA	NA
Potassium	mg/L	9.88 J	NA	NA	ND(5.00)	6.05	NA	NA
Sodium	mg/L	281	NA	NA	29.4	59.3	NA	NA
Thallium	mg/L	0.00400 B (IDW)	ND(0.00100)	ND(0.00100) [ND(0.00100)]	ND(0.00200)	ND(0.00200 J)	NA	NA
Vanadium	mg/L	ND(0.0200)	NA	NA	ND(0.0200)	ND(0.0200)	NA	NA
Zinc	mg/L	ND(0.0200)	NA	NA	0.151	ND(0.0533)	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	NA	NA	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.117)
Antimony (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.004 B	NA	NA	0.011 (IDW)	0.0125 J (IDW)	ND(0.001)	ND(0.005)
Barium (Dissolved)	mg/L	0.0577 B	NA	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.004)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.001)	NA	NA	0.00043	ND(0.0005)	ND(0.0002)	ND(0.0005)
Calcium (Dissolved)	mg/L	135	NA	NA	61.6	93.6	48.4	49
Chromium Total (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	NA	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.005)	NA	ND(0.005 J)
Iron (Dissolved)	mg/L	6.58	NA	NA	0.33	0.648 J	0.606	ND(0.318)
Lead (Dissolved)	mg/L	ND(0.003)	NA	NA	0.011 (IDW)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	29.3	NA	NA	9.79	15.4	8.15	8.4
Manganese (Dissolved)	mg/L	2.08	NA	NA	0.571	0.823	0.226	0.182
Nickel (Dissolved)	mg/L	ND(0.04)	NA	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	10.3 J	NA	NA	ND(5)	ND(5)	ND(5)	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.005)	NA	NA	ND(0.0005)	ND(0.0005 J)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	298	NA	NA	27.5	47	23.3	25.2
Thallium (Dissolved)	mg/L	0.0059 B (IDW)	NA	ND(0.001) [ND(0.001)]	ND(0.002)	ND(0.002 J)	ND(0.002)	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	NA	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	NA	NA	ND(0.02)	ND(0.0406)	ND(0.02)	ND(0.02)

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-114S2 07/17/95	Saginaw River Area MW-114S2 06/07/96	Saginaw River Area MW-114S3 07/17/95	Saginaw River Area MW-114S3 06/07/96	Saginaw River Area MW-114S4 07/17/95	Saginaw River Area MW-114S4 06/07/96	Saginaw River Area MW-114WT 06/08/96
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	0.193
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	ND(0.00500)
Barium	mg/L	NA	NA	NA	NA	NA	NA	0.570
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	0.00400
Calcium	mg/L	NA	NA	NA	NA	NA	NA	902
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0500)
Copper	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0250)
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA	NA	ND(0.367)
Lead	mg/L	NA	NA	NA	NA	NA	NA	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	132
Manganese	mg/L	NA	NA	NA	NA	NA	NA	2.26 (IDW)
Nickel	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0500)
Potassium	mg/L	NA	NA	NA	NA	NA	NA	18.5
Sodium	mg/L	NA	NA	NA	NA	NA	NA	200
Thallium	mg/L	NA	NA	NA	NA	NA	NA	ND(0.00400 J)
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0200)
Zinc	mg/L	NA	NA	NA	NA	NA	NA	ND(0.0200)
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	0.231	ND(0.196)	0.122
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.005)	ND(0.001 J)	ND(0.005)	ND(0.005)
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.57
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0005 J)	ND(0.0002)	ND(0.0005 J)	ND(0.0002)	ND(0.0005 J)	ND(0.0005)
Calcium (Dissolved)	mg/L	61	53.1	66.2	55.8	64.5	61	866
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	ND(0.005 J)	NA	ND(0.005 J)	NA	ND(0.005 J)	ND(0.005 J)
Iron (Dissolved)	mg/L	1.36	ND(1.26)	0.463	ND(0.488)	0.294	ND(0.1)	0.117
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	13	11.8	24.2	20.5	12.7	17.3	129
Manganese (Dissolved)	mg/L	0.436	0.382	0.214	0.186	ND(0.02)	0.0546	1.62
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	ND(5)	ND(5)	ND(5)	7.45	5.47	17.9
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005 J)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	30.9	29.2	384 (IDW)	369 (IDW)	385 (IDW)	394 (IDW)	200
Thallium (Dissolved)	mg/L	ND(0.002)	ND(0.002 J)	ND(0.002 J)	ND(0.004 J)	ND(0.002)	ND(0.004 J)	ND(0.01 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.028)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area MW-114WT 12/11/97	Saginaw River Area MW-114WT 05/22/00	Saginaw River Area MW-149WT 06/12/96	Saginaw River Area MW-149WT 05/21/00	Saginaw River Area MW-149WT 06/02/04	Saginaw River Area TW-210S1 02/15/95	Saginaw River Area TW-210S2 02/15/95
Inorganics								
Aluminum	mg/L	NA	ND(0.100)	NA	0.0984 B	NA	NA	NA
Arsenic	mg/L	NA	ND(0.0100)	NA	0.0107 (IDW)	0.223 (IDW) [0.227 (IDW)]	NA	NA
Barium	mg/L	NA	0.107	NA	0.118	NA	NA	NA
Cadmium	mg/L	NA	ND(0.00100)	NA	ND(0.00100)	NA	NA	NA
Calcium	mg/L	NA	595	NA	117	NA	NA	NA
Chromium Total	mg/L	NA	ND(0.00500)	NA	ND(0.00500)	NA	NA	NA
Copper	mg/L	NA	ND(0.0250)	NA	ND(0.0250)	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	ND(0.00500)	ND(0.00500)
Iron	mg/L	NA	0.0659 B	NA	5.32	NA	NA	NA
Lead	mg/L	NA	ND(0.00300)	NA	ND(0.00300)	NA	NA	NA
Magnesium	mg/L	NA	67.3	NA	21.6	NA	NA	NA
Manganese	mg/L	NA	0.503	NA	0.868	4.44 (IDW) [4.56 (IDW)]	NA	NA
Nickel	mg/L	NA	ND(0.0400)	NA	ND(0.0400)	NA	NA	NA
Potassium	mg/L	NA	16.1	NA	24.6 J	NA	NA	NA
Sodium	mg/L	NA	218	NA	79.8	NA	NA	NA
Thallium	mg/L	NA	0.00530 B (IDW)	NA	0.00670 B (IDW)	ND(0.00100) [ND(0.00100)]	NA	NA
Vanadium	mg/L	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA	NA
Zinc	mg/L	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	NA	ND(0.1)	ND(0.1)	ND(0.1)	NA	ND(0.1)	ND(0.1)
Antimony (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.019 (IDW)	ND(0.01)	0.23 (IDW)	0.006 B	NA	ND(0.001 J)	ND(0.001 J)
Barium (Dissolved)	mg/L	0.25	0.092 B	ND(0.2)	0.112	NA	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	NA	ND(0.004)	ND(0.005)	ND(0.004)	NA	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0005)	ND(0.001)	ND(0.0005)	ND(0.001)	NA	ND(0.0002)	ND(0.0002 JW)
Calcium (Dissolved)	mg/L	NA	609	100	118	NA	57.3	27.4
Chromium Total (Dissolved)	mg/L	0.075	ND(0.005)	ND(0.05)	ND(0.005)	NA	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	0.061	ND(0.025)	ND(0.025)	ND(0.025)	NA	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	ND(0.005)	NA	NA	NA	NA
Iron (Dissolved)	mg/L	53 (IDW)	ND(0.1)	20.3 J (IDW)	4.42	NA	0.261 J	0.508 J
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	NA	65.7	17	21.6	NA	8.98	7.64
Manganese (Dissolved)	mg/L	NA	0.518	3.18 (IDW)	0.915	NA	0.566	0.113
Nickel (Dissolved)	mg/L	0.15 (IDW)	ND(0.04)	ND(0.05)	ND(0.04)	NA	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	17	ND(5)	24 J	NA	ND(5)	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005 J)	ND(0.005 J)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.005)	ND(0.0005)	ND(0.005)	NA	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	NA	218	29.6	80.7	NA	27.6	249
Thallium (Dissolved)	mg/L	NA	ND(0.01)	ND(0.002 J)	0.0064 B (IDW)	NA	ND(0.002)	ND(0.002 JW)
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02)	ND(0.02)	NA	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	0.31	ND(0.02)	ND(0.109)	ND(0.02)	NA	0.286	0.315

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-210WT 02/14/95	Saginaw River Area TW-211S1 02/15/95	Saginaw River Area TW-211S2 02/16/95	Saginaw River Area TW-211WT 02/16/95	Saginaw River Area TW-212S1 02/15/95	Saginaw River Area TW-212S2 02/16/95	Saginaw River Area TW-212WT 02/15/95
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500 J)	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	0.13	0.228 [0.148]	0.12	0.132	0.156	0.188	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.001 J)	ND(0.001 J) [ND(0.001 J)]	ND(0.001 J)	0.0134 (IDW)	0.0014	ND(0.001 J)	ND(0.001 J)
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2) [ND(0.2)]	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002) [ND(0.0002)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	47.4	60.8 [69.3]	79.8	70.5	48.4	67.2	57.3
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	0.115 J	0.367 J [0.207 J]	0.294 J	0.418 J	0.114 J	0.678	ND(0.1)
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003) [ND(0.003)]	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	8.45	10.9 [12.8]	20.1	10.3	8.12	16.4	10
Manganese (Dissolved)	mg/L	0.287	0.36 [0.403]	0.494	0.758	0.192	0.381	1.18
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	6.24 [6.47]	ND(5)	9.32	ND(5)	ND(5 J)	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005 J)	ND(0.005 J) [ND(0.005 J)]	ND(0.005 J)	ND(0.005 J)	ND(0.005)	ND(0.005 J)	ND(0.005 J)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005) [ND(0.0005)]	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	25.6	27.5 [30.8]	81.2	26	25	35.1	27.8
Thallium (Dissolved)	mg/L	ND(0.002)	ND(0.002) [ND(0.002)]	ND(0.002 JW)	ND(0.002)	ND(0.002)	ND(0.002 J)	ND(0.002)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	0.18	0.328 [0.356]	0.909	0.249	0.227	0.301 J	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area TW-213S1 02/16/95	Saginaw River Area TW-213S2 02/17/95	Saginaw River Area TW-213WT 02/17/95	Saginaw River Area X-4AR 07/24/95	Saginaw River Area X-4AR 06/09/96	Saginaw River Area X-4AR 05/21/00	Saginaw River Area X-4AR 06/03/04
Inorganics								
Aluminum	mg/L	NA	NA	NA	42.6 (IDW)	ND(0.315)	0.134	NA
Arsenic	mg/L	NA	NA	NA	0.0127 (IDW)	ND(0.00500)	ND(0.0100)	NA
Barium	mg/L	NA	NA	NA	0.431	ND(0.200)	0.0733 B	NA
Cadmium	mg/L	NA	NA	NA	0.00200 J	ND(0.000500)	ND(0.00100)	NA
Calcium	mg/L	NA	NA	NA	481	173	159	NA
Chromium Total	mg/L	NA	NA	NA	0.0700	ND(0.0500)	ND(0.00500)	NA
Copper	mg/L	NA	NA	NA	0.0600	ND(0.0250)	ND(0.0250)	NA
Cyanide (total)	mg/L	ND(0.00500 J)	ND(0.00500 J)	ND(0.00500 J)	ND(0.00500)	ND(0.00500)	NA	NA
Iron	mg/L	NA	NA	NA	72.4 (IDW)	0.399	ND(0.193)	NA
Lead	mg/L	NA	NA	NA	0.0274 (IDW)	ND(0.00300)	ND(0.00300)	NA
Magnesium	mg/L	NA	NA	NA	141	32.1	29.0	NA
Manganese	mg/L	NA	NA	NA	1.50	0.0419	ND(0.0150)	NA
Nickel	mg/L	NA	NA	NA	0.0530	ND(0.0500)	ND(0.0400)	NA
Potassium	mg/L	NA	NA	NA	7.51	ND(5.00)	1.80 BJ	NA
Sodium	mg/L	NA	NA	NA	20.7	21.9	20.7	NA
Thallium	mg/L	NA	NA	NA	ND(0.00200 J)	ND(0.00200 J)	0.00730 B (IDW)	ND(0.00100)
Vanadium	mg/L	NA	NA	NA	0.0832 (IDW)	ND(0.0200)	ND(0.0200)	NA
Zinc	mg/L	NA	NA	NA	4.17	ND(0.0677)	ND(0.0200)	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	ND(0.1)	0.174	ND(0.1)	0.113	ND(0.151)	ND(0.1)	NA
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Arsenic (Dissolved)	mg/L	0.0014 J	0.0019 J	0.0047 J	0.0012	ND(0.005)	ND(0.01)	NA
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.0739 B	NA
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.004)	NA
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0005 J)	ND(0.001)	NA
Calcium (Dissolved)	mg/L	53.4	54.7	86	149	176	162	NA
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.005)	NA
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.005)	NA	NA
Iron (Dissolved)	mg/L	ND(0.1)	R	ND(0.1)	1.08	0.289	ND(0.1)	NA
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	8.98	11.7	14	29.9	32.9	29.5	NA
Manganese (Dissolved)	mg/L	0.334	0.352	1.2	0.248	0.0444	ND(0.015)	NA
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.04)	NA
Potassium (Dissolved)	mg/L	ND(5 J)	5.87 J	6.73 J	ND(5)	ND(5)	1.74 BJ	NA
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005 J)	ND(0.0005)	ND(0.005)	NA
Sodium (Dissolved)	mg/L	25.4	32.2	37.2	18.1	22.9	20.9	NA
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	ND(0.002)	ND(0.002 J)	0.0046 B (IDW)	NA
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	NA
Zinc (Dissolved)	mg/L	0.209 J	R	R	0.341	ND(0.0706)	ND(0.02)	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area X-4CAUG 07/24/95	Saginaw River Area X-4CAUG 06/08/96	Saginaw River Area X-9AR 07/24/95	Saginaw River Area X-9AR 06/09/96	Saginaw River Area X-9AR 12/15/06	Saginaw River Area X-9BR 07/24/95	Saginaw River Area X-9BR 06/08/96
Inorganics								
Aluminum	mg/L	NA	NA	0.797 (IDW)	ND(0.430)	ND(0.200)	NA	NA
Arsenic	mg/L	NA	NA	0.00160	ND(0.00500)	ND(0.00500)	NA	NA
Barium	mg/L	NA	NA	ND(0.200)	ND(0.200)	0.0940 J	NA	NA
Cadmium	mg/L	NA	NA	ND(0.000200 J)	ND(0.000500 J)	ND(0.00100)	NA	NA
Calcium	mg/L	NA	NA	164	146	168	NA	NA
Chromium Total	mg/L	NA	NA	ND(0.0500)	ND(0.0500)	ND(0.00500)	NA	NA
Copper	mg/L	NA	NA	ND(0.0250)	ND(0.0250)	0.00180 J	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	ND(0.00500)	NA	ND(0.00500)	NA
Iron	mg/L	NA	NA	11.1	2.90	1.09	NA	NA
Lead	mg/L	NA	NA	ND(0.00300)	ND(0.00300)	ND(0.00300)	NA	NA
Magnesium	mg/L	NA	NA	42.6	37.2	43.4	NA	NA
Manganese	mg/L	NA	NA	0.770	0.348	0.157	NA	NA
Nickel	mg/L	NA	NA	ND(0.0500)	ND(0.0500)	ND(0.0200)	NA	NA
Potassium	mg/L	NA	NA	ND(5.00)	ND(5.00)	ND(1.00)	NA	NA
Sodium	mg/L	NA	NA	340	57.2	55.0	NA	NA
Thallium	mg/L	NA	NA	ND(0.00200 J)	ND(0.00200 J)	ND(0.00100)	NA	NA
Vanadium	mg/L	NA	NA	ND(0.0200)	ND(0.0200)	ND(0.00400)	NA	NA
Zinc	mg/L	NA	NA	0.0840	ND(0.0200)	ND(0.0200)	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	0.103	ND(0.1)	0.11	ND(0.1)	ND(0.2)	ND(0.1)	0.101
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.002)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.001 J)	ND(0.005)	0.0021	ND(0.005)	ND(0.005)	ND(0.001 J)	ND(0.005)
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	0.0912 J	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.001)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	0.00063	ND(0.0002)	ND(0.0005 J)	ND(0.001)	ND(0.0002)	ND(0.0005 J)
Calcium (Dissolved)	mg/L	88.5	89	145	144	166	118	130
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.005)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	0.00059 J	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	ND(0.005 J)	NA	ND(0.005 J)	ND(0.01)	NA	ND(0.005 J)
Iron (Dissolved)	mg/L	1.97	1.98	9.17	3.19	0.965	3.36	2.49
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	23.9	23.5	38.7	36.3	42.9	37.6	42.6
Manganese (Dissolved)	mg/L	0.447	0.464	0.674	0.382	0.153	0.763	0.813
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.02)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(1)	ND(5)	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005 J)	ND(0.0005)	ND(0.0005 J)	ND(0.0005)	ND(0.0002 J)	ND(0.0005 J)	ND(0.0005)
Sodium (Dissolved)	mg/L	65.4	79.1	37.6	57	54.5	64	48.8
Thallium (Dissolved)	mg/L	ND(0.002 J)	ND(0.004 J)	ND(0.002 J)	ND(0.004 J)	ND(0.001)	ND(0.002 J)	ND(0.004 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.004)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	0.02	ND(0.02 J)	0.051	ND(0.0355)	ND(0.02)	0.025	ND(0.02 J)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Saginaw River Area X-9BR 12/15/06	Saginaw River Area X-9CAUG 07/24/95	Saginaw River Area X-9CAUG 06/08/96	Secondary Settling Pond MW-115S1 07/15/95	Secondary Settling Pond MW-115S1 06/07/96	Secondary Settling Pond MW-115S2 07/15/95
Inorganics							
Aluminum	mg/L	ND(0.200) [ND(0.200)]	NA	NA	NA	NA	NA
Arsenic	mg/L	ND(0.00500) [ND(0.00500)]	NA	NA	NA	NA	NA
Barium	mg/L	0.143 [0.148]	NA	NA	NA	NA	NA
Cadmium	mg/L	ND(0.00100) [ND(0.00100)]	NA	NA	NA	NA	NA
Calcium	mg/L	117 [121]	NA	NA	NA	NA	NA
Chromium Total	mg/L	ND(0.00500) [ND(0.00500)]	NA	NA	NA	NA	NA
Copper	mg/L	ND(0.00200) [0.000580 J]	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)
Iron	mg/L	3.07 [3.12]	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300) [ND(0.00300)]	NA	NA	NA	NA	NA
Magnesium	mg/L	36.4 [37.6]	NA	NA	NA	NA	NA
Manganese	mg/L	0.777 [0.801]	NA	NA	NA	NA	NA
Nickel	mg/L	ND(0.0200) [ND(0.0200)]	NA	NA	NA	NA	NA
Potassium	mg/L	1.37 [1.37]	NA	NA	NA	NA	NA
Sodium	mg/L	102 [102]	NA	NA	NA	NA	NA
Thallium	mg/L	ND(0.00100) [ND(0.00100)]	NA	NA	NA	NA	NA
Vanadium	mg/L	ND(0.00400) [ND(0.00400)]	NA	NA	NA	NA	NA
Zinc	mg/L	ND(0.0200) [ND(0.0200)]	NA	NA	NA	NA	NA
Inorganics-Dissolved							
Aluminum (Dissolved)	mg/L	ND(0.2)	0.156	ND(0.1)	ND(0.1)	NA	0.118
Antimony (Dissolved)	mg/L	ND(0.002)	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	ND(0.005)	ND(0.001 J)	ND(0.005)	0.0052	NA	ND(0.001)
Barium (Dissolved)	mg/L	0.153	ND(0.2)	ND(0.2)	ND(0.2)	NA	0.219
Beryllium (Dissolved)	mg/L	ND(0.001)	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.001)	ND(0.0002)	ND(0.0005)	ND(0.0002)	NA	ND(0.0002)
Calcium (Dissolved)	mg/L	112	122	132	62.3	NA	107
Chromium Total (Dissolved)	mg/L	ND(0.005)	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.002)	ND(0.025)	ND(0.025)	ND(0.025)	NA	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.01)	NA	ND(0.005 J)	NA	NA	NA
Iron (Dissolved)	mg/L	4.45	7.5	8.9	2.87 J	2.86	1.46 J
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA	ND(0.003)
Magnesium (Dissolved)	mg/L	34.5	38.5	40	14.5	NA	36.1
Manganese (Dissolved)	mg/L	0.717	0.628	0.615	0.55	0.495	0.22
Nickel (Dissolved)	mg/L	ND(0.02)	ND(0.05)	ND(0.05)	ND(0.05)	NA	ND(0.05)
Potassium (Dissolved)	mg/L	1.48	ND(5)	ND(5)	ND(5)	NA	ND(5)
Selenium (Dissolved)	mg/L	ND(0.0057)	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0002 J)	ND(0.0005)	ND(0.0005)	ND(0.0005)	NA	ND(0.0005)
Sodium (Dissolved)	mg/L	125	47.2	47	32.2	32.5	268
Thallium (Dissolved)	mg/L	ND(0.001)	ND(0.002)	ND(0.002 J)	ND(0.002)	NA	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.004)	ND(0.02)	ND(0.02)	ND(0.02)	NA	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	0.0636	R

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-115S2 06/07/96	Secondary Settling Pond MW-115S3 07/15/95	Secondary Settling Pond MW-115S3 06/07/96	Secondary Settling Pond MW-115WT 07/15/95	Secondary Settling Pond MW-115WT 06/07/96
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	ND(0.00500)	NA
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	NA	0.478 (IDW)	NA	ND(0.1)	NA
Antimony (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA
Arsenic (Dissolved)	mg/L	NA	0.0012	NA	0.0046	NA
Barium (Dissolved)	mg/L	NA	ND(0.2)	NA	ND(0.2)	NA
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA
Cadmium (Dissolved)	mg/L	NA	ND(0.0002)	NA	ND(0.0002)	NA
Calcium (Dissolved)	mg/L	NA	95.5	NA	53	NA
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	NA	ND(0.05)	NA
Copper (Dissolved)	mg/L	NA	0.039	NA	ND(0.025)	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	1.63	1.56 J	1.39	1.26 J	2.56
Lead (Dissolved)	mg/L	NA	ND(0.003)	NA	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	NA	37	NA	9.96	NA
Manganese (Dissolved)	mg/L	0.208	0.177	0.181	1.06	1.27
Nickel (Dissolved)	mg/L	NA	ND(0.05)	NA	ND(0.05)	NA
Potassium (Dissolved)	mg/L	NA	ND(5)	NA	ND(5)	NA
Selenium (Dissolved)	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA
Silver (Dissolved)	mg/L	NA	ND(0.0005)	NA	ND(0.0005)	NA
Sodium (Dissolved)	mg/L	278	285	335	29.1	43.2
Thallium (Dissolved)	mg/L	NA	ND(0.002 J)	NA	ND(0.002)	NA
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	NA	ND(0.02)	NA
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-116S1 07/15/95	Secondary Settling Pond MW-116S1 06/07/96	Secondary Settling Pond MW-116S2 07/15/95	Secondary Settling Pond MW-116S2 06/07/96	Secondary Settling Pond MW-116WT 07/15/95
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500)	NA	ND(0.00500)	NA	ND(0.00500)
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	ND(0.1)	NA	ND(0.1)	NA	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0021	NA	0.0099	NA	0.0181 (IDW)
Barium (Dissolved)	mg/L	0.594	NA	0.504	NA	0.253
Beryllium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	NA	ND(0.0002)	NA	ND(0.0002)
Calcium (Dissolved)	mg/L	169	NA	114	NA	228
Chromium Total (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	NA	ND(0.025)	NA	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	11.1 J	10.9	4.42 J	5.52	9.52 J
Lead (Dissolved)	mg/L	ND(0.003)	NA	ND(0.003)	NA	ND(0.003)
Magnesium (Dissolved)	mg/L	51	NA	41.1	NA	51.1
Manganese (Dissolved)	mg/L	0.437	0.413	0.081	0.0637	1.5
Nickel (Dissolved)	mg/L	ND(0.05)	NA	ND(0.05)	NA	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	NA	ND(5)	NA	10.4
Selenium (Dissolved)	mg/L	ND(0.005)	NA	ND(0.005)	NA	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	NA	ND(0.0005)	NA	ND(0.0005)
Sodium (Dissolved)	mg/L	91.8	90	230	254	199
Thallium (Dissolved)	mg/L	ND(0.002 J)	NA	ND(0.002)	NA	ND(0.002 J)
Vanadium (Dissolved)	mg/L	ND(0.02)	NA	ND(0.02)	NA	ND(0.02)
Zinc (Dissolved)	mg/L	R	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-116WT 06/07/96	Secondary Settling Pond MW-131S1 07/27/95	Secondary Settling Pond MW-131S2 07/27/95	Secondary Settling Pond MW-131WT 07/27/95	Secondary Settling Pond MW-150WT 06/13/96
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00510)	NA
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	NA	ND(0.1)	0.166 [ND(0.1)]	ND(0.1)	ND(0.1) [ND(0.1)]
Antimony (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005) [ND(0.005)]
Arsenic (Dissolved)	mg/L	NA	0.0036	0.0157 (IDW) [0.0148 (IDW)]	ND(0.001)	ND(0.005) [ND(0.005)]
Barium (Dissolved)	mg/L	NA	0.595	ND(0.2) [ND(0.2)]	ND(0.2)	ND(0.2) [ND(0.2)]
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005) [ND(0.005)]
Cadmium (Dissolved)	mg/L	NA	ND(0.0002 J)	ND(0.0002 J) [ND(0.0002 J)]	ND(0.0002 J)	ND(0.0005 J) [ND(0.0005)]
Calcium (Dissolved)	mg/L	NA	114	157 [162]	55.4	178 [171]
Chromium Total (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05) [ND(0.05)]
Copper (Dissolved)	mg/L	NA	ND(0.025)	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025) [ND(0.025)]
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.005) [ND(0.005)]
Iron (Dissolved)	mg/L	9	6.04	4.51 [4.52]	0.12	6.85 J [6.01 J]
Lead (Dissolved)	mg/L	NA	ND(0.003)	ND(0.003) [ND(0.003)]	ND(0.003)	ND(0.003) [ND(0.003)]
Magnesium (Dissolved)	mg/L	NA	38.6	59 [60.4]	7.92	36.6 [36.5]
Manganese (Dissolved)	mg/L	1.52	0.153	0.148 [0.152]	0.518	1.93 [1.85]
Nickel (Dissolved)	mg/L	NA	ND(0.05)	ND(0.05) [ND(0.05)]	ND(0.05)	ND(0.05) [ND(0.05)]
Potassium (Dissolved)	mg/L	NA	ND(5)	10.8 [11]	ND(5)	12.8 [14.4]
Selenium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005) [ND(0.005)]	ND(0.005)	ND(0.005) [ND(0.005)]
Silver (Dissolved)	mg/L	NA	ND(0.0005)	ND(0.0005) [ND(0.0005)]	ND(0.0005)	ND(0.0005 J) [ND(0.0005 J)]
Sodium (Dissolved)	mg/L	207	153	362 (IDW) [371 (IDW)]	26	84.5 [88.8]
Thallium (Dissolved)	mg/L	NA	ND(0.002)	ND(0.002 J) [ND(0.002 J)]	ND(0.002)	ND(0.002 J) [ND(0.002 J)]
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.02) [ND(0.02)]
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02) [ND(0.02)]	ND(0.02)	ND(0.0348) [ND(0.02)]

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond MW-184WT 08/17/00	Secondary Settling Pond TW-214S1 01/27/95	Secondary Settling Pond TW-214S2 01/27/95	Secondary Settling Pond TW-214WT 01/26/95	Secondary Settling Pond TW-215S1 01/27/95
Inorganics						
Aluminum	mg/L	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500 J)	ND(0.00500 J)	ND(0.00500 J)	ND(0.00500 J)
Iron	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Inorganics-Dissolved						
Aluminum (Dissolved)	mg/L	NA	R	R	0.204	R
Antimony (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0041 B [0.0046 B]	0.0064	0.0012	0.0023	0.0022
Barium (Dissolved)	mg/L	0.0958 B [0.0937 B]	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
Beryllium (Dissolved)	mg/L	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.001) [ND(0.001)]	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Calcium (Dissolved)	mg/L	NA	56.1	55.9	64.6	77.4
Chromium Total (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025) [ND(0.025)]	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Cyanide (Dissolved)	mg/L	ND(0.01) [ND(0.01)]	NA	NA	NA	NA
Iron (Dissolved)	mg/L	10.3 [10.1]	ND(0.1)	ND(0.1)	0.229	1.05
Lead (Dissolved)	mg/L	ND(0.003) [ND(0.003)]	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium (Dissolved)	mg/L	NA	9.54	12.5	11.3	23.1
Manganese (Dissolved)	mg/L	NA	0.563	0.272	0.655	0.417
Nickel (Dissolved)	mg/L	ND(0.04) [ND(0.04)]	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Potassium (Dissolved)	mg/L	NA	ND(5)	ND(5)	5.22 J	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.005 J)	ND(0.005 J)	ND(0.005 J)	ND(0.005 J)
Silver (Dissolved)	mg/L	ND(0.005) [ND(0.005)]	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
Sodium (Dissolved)	mg/L	NA	23.2	30.1	29.2	53.7
Thallium (Dissolved)	mg/L	NA	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002 JW)
Vanadium (Dissolved)	mg/L	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Zinc (Dissolved)	mg/L	ND(0.02) [ND(0.02)]	R	0.492	0.586	0.586

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	Secondary Settling Pond TW-215S2 01/27/95	Secondary Settling Pond TW-215S3 01/27/95	Secondary Settling Pond TW-215WT 01/26/95	UST 4 UST4-MW1 06/08/94	UST 4 UST4-MW2 06/08/94	UST 4 UST4-MW3 06/08/94	UST 4 UST4-MW4 06/08/94	UST 4 UST-MWS1 07/27/95
Inorganics									
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ND(0.00500 J)	ND(0.00500 J)	ND(0.00500 J)	NA	NA	NA	NA	ND(0.500)
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved									
Aluminum (Dissolved)	mg/L	R	R	0.112	NA	NA	NA	NA	ND(0.1)
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA	NA	NA	ND(0.005)
Arsenic (Dissolved)	mg/L	0.0017	0.0025	0.0012	NA	NA	NA	NA	ND(0.001)
Barium (Dissolved)	mg/L	0.4	0.261	ND(0.2)	NA	NA	NA	NA	ND(0.2)
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA	NA	NA	ND(0.005)
Cadmium (Dissolved)	mg/L	ND(0.0002)	ND(0.0002)	ND(0.0002)	NA	NA	NA	NA	ND(0.0002 J)
Calcium (Dissolved)	mg/L	123	111	71.1	NA	NA	NA	NA	100
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	NA	NA	NA	NA	ND(0.05)
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	ND(0.025)	NA	NA	NA	NA	ND(0.025)
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	2.08	3	ND(0.1)	NA	NA	NA	NA	2.46
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	ND(0.003)	NA	NA	NA	NA	ND(0.003)
Magnesium (Dissolved)	mg/L	43.3	42.4	15.1	NA	NA	NA	NA	29.6
Manganese (Dissolved)	mg/L	0.245	0.137	0.556	NA	NA	NA	NA	0.262
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	NA	NA	NA	NA	ND(0.05)
Potassium (Dissolved)	mg/L	ND(5)	5.08 J	7.26 J	NA	NA	NA	NA	ND(5)
Selenium (Dissolved)	mg/L	ND(0.005 J)	ND(0.005 J)	ND(0.005 J)	NA	NA	NA	NA	ND(0.005)
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	ND(0.0005)	NA	NA	NA	NA	ND(0.0005)
Sodium (Dissolved)	mg/L	124	182	39.9	NA	NA	NA	NA	77.8
Thallium (Dissolved)	mg/L	ND(0.002 JW)	ND(0.002 JW)	ND(0.002)	NA	NA	NA	NA	ND(0.002)
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	ND(0.02)	NA	NA	NA	NA	ND(0.02)
Zinc (Dissolved)	mg/L	0.319	0.925	R	NA	NA	NA	NA	ND(0.02)

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 4 UST-MWS1 06/10/96	UST 4 UST-MWS2 07/26/95	UST 7 BBL-MW1 06/01/96	UST 7 BBL-MW1 06/20/96	UST 7 BBL-MW1 07/31/98	UST 7 BBL-MW1 10/01/98	UST 7 BBL-MW1 10/27/98	UST 7 BBL-MW1 01/01/99	UST 7 BBL-MW1 01/28/99	UST 7 BBL-MW1 04/01/99	UST 7 BBL-MW1 04/12/99	UST 7 BBL-MW1 07/01/99
Inorganics													
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	ND(0.00500)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	ND(0.00300)	ND(0.00300)	ND(0.100)	ND(0.00300)	NA	ND(0.00100)	NA	ND(0.00100)	NA	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved													
Aluminum (Dissolved)	mg/L	ND(0.1)	ND(0.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ND(0.005)	0.0076	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ND(0.2)	ND(0.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ND(0.0005)	ND(0.0002 J)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	167	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	ND(0.05)	ND(0.05)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ND(0.025)	ND(0.025)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	ND(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	2.72 J	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ND(0.003)	ND(0.003)	NA	NA	NA	NA	ND(0.003)	NA	ND(0.001)	NA	ND(0.001)	NA
Magnesium (Dissolved)	mg/L	51.7	39.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	0.527 J	0.361	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ND(0.05)	ND(0.05)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	22.2	ND(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ND(0.005)	ND(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ND(0.0005)	ND(0.0005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	486 (IDW)	45.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ND(0.016 J)	ND(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ND(0.02)	ND(0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ND(0.02)	ND(0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 07/14/99	UST 7 BBL-MW1 10/01/99	UST 7 BBL-MW1 10/22/99	UST 7 BBL-MW1 01/01/00	UST 7 BBL-MW1 05/01/00	UST 7 BBL-MW1 05/18/00	UST 7 BBL-MW1 08/01/00	UST 7 BBL-MW1 08/23/00
Inorganics									
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300) [ND(0.00300)]	0.0100 (DW)	0.0100 (DW)	ND(0.00300) [ND(0.00300)]	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved									
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	ND(0.003) [ND(0.003)]
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 10/01/00	UST 7 BBL-MW1 03/01/01	UST 7 BBL-MW1 05/01/01	UST 7 BBL-MW1 08/01/01	UST 7 BBL-MW1 02/11/02	UST 7 BBL-MW1 08/02/02	UST 7 BBL-MW1 03/03/03
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300)	ND(0.00300) [ND(0.00300)]	ND(0.00100)	0.00300 [0.00300]	ND(0.00300)	ND(0.00100) [ND(0.00100)]	ND(0.00100)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW1 08/03/03	UST 7 BBL-MW1 02/04/04	UST 7 BBL-MW1 08/04/04	UST 7 BBL-MW1 02/05/05	UST 7 BBL-MW1 02/22/05	UST 7 BBL-MW1 08/05/05	UST 7 BBL-MW1 08/22/05
Inorganics								
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00000100) [ND(0.00000100)]	0.000830 B [0.000810 B]	0.000930 B [0.00140 BG]	0.00110	NA	0.00130	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved								
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	0.0011	NA	0.0013
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW2 06/18/96	UST 7 BBL-MW2 05/01/00	UST 7 BBL-MW2 05/19/00	UST 7 BBL-MW3 06/18/96	UST 7 BBL-MW3 05/01/00	UST 7 BBL-MW3 05/17/00	UST 7 BBL-MW3 02/06/06	UST 7 BBL-MW3 08/06/06	UST 7 BBL-MW4 06/01/96	UST 7 BBL-MW4 06/18/96
Inorganics											
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300) [ND(0.00300)]	0.0416 (IDW)	0.0416 (IDW)	ND(0.00300)	ND(0.00300)	ND(0.00300)	0.00120	0.00110	ND(0.00300)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved											
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW4 07/31/98	UST 7 BBL-MW4 10/01/98	UST 7 BBL-MW4 10/27/98	UST 7 BBL-MW4 01/01/99	UST 7 BBL-MW4 01/28/99	UST 7 BBL-MW4 04/01/99	UST 7 BBL-MW4 04/12/99	UST 7 BBL-MW4 07/01/99	UST 7 BBL-MW4 07/14/99	UST 7 BBL-MW4 10/01/99	UST 7 BBL-MW4 10/22/99	UST 7 BBL-MW4 01/01/00
Inorganics													
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.100)	ND(0.00300)	NA	0.00200	NA	ND(0.00100)	NA	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved													
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	ND(0.003)	NA	0.002	NA	ND(0.001)	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW4 05/01/00	UST 7 BBL-MW4 05/18/00	UST 7 BBL-MW4 08/01/00	UST 7 BBL-MW4 08/23/00	UST 7 BBL-MW4 10/01/00	UST 7 BBL-MW4 03/01/01	UST 7 BBL-MW4 05/01/01	UST 7 BBL-MW4 08/01/01	UST 7 BBL-MW4 02/11/02	UST 7 BBL-MW4 08/02/02
Inorganics											
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	0.00510	0.00510	ND(0.00300)	NA	ND(0.00300)	ND(0.00300)	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00300)	ND(0.00100)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved											
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	ND(0.003)	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW4 03/03/03	UST 7 BBL-MW4 08/03/03	UST 7 BBL-MW4 02/04/04	UST 7 BBL-MW4 08/04/04	UST 7 BBL-MW4 02/22/05	UST 7 BBL-MW4 02/22/05	UST 7 BBL-MW4 08/05/05	UST 7 BBL-MW4 08/23/05	UST 7 BBL-MW4 02/06/06	UST 7 BBL-MW4 08/06/06	UST 7 BBL-MW5 06/19/96
Inorganics												
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00100)	ND(0.00000100)	ND(0.00100)	ND(0.00100)	NA	ND(0.00100)	ND(0.00100)	NA	ND(0.00100)	ND(0.00100)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved												
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.001)	NA	NA	ND(0.001)	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 BBL-MW5 05/01/00	UST 7 BBL-MW5 05/19/00	UST 7 MW-135S1 07/21/95	UST 7 MW-135S2 07/21/95	UST 7 MW-135S3 07/21/95	UST 7 MW-135WT 07/21/95	UST 7 MW-135WT 06/18/96	UST 7 MW-135WT 07/31/98	UST 7 MW-135WT 10/01/98	UST 7 MW-135WT 10/27/98	UST 7 MW-135WT 01/01/99
Inorganics												
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300)	ND(0.00300)	NA	NA	NA	NA	ND(0.00300)	ND(0.100)	ND(0.00300)	NA	ND(0.00100)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved												
Aluminum (Dissolved)	mg/L	NA	NA	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	0.0171 (IDW)	0.0046	0.0035	0.0019	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	ND(0.0002 J)	ND(0.0002 J)	ND(0.0002 J)	ND(0.0002 J)	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	123	61.6	56	38.7	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	9.18	4.14	1.93	4.28	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	NA	NA	NA	ND(0.003)	NA
Magnesium (Dissolved)	mg/L	NA	NA	41.6	18.2	17.3	8.15	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	0.161	0.124	0.075	0.309	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	ND(5)	ND(5)	ND(5)	10.8	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	ND(0.0005 J)	ND(0.0005 J)	ND(0.0005 J)	ND(0.0005 J)	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	146	117	125	305	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	ND(0.002 J)	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	R	R	R	ND(0.02)	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135WT 01/28/99	UST 7 MW-135WT 04/01/99	UST 7 MW-135WT 04/12/99	UST 7 MW-135WT 07/01/99	UST 7 MW-135WT 07/14/99	UST 7 MW-135WT 10/01/99	UST 7 MW-135WT 10/22/99	UST 7 MW-135WT 01/01/00	UST 7 MW-135WT 05/01/00	UST 7 MW-135WT 05/18/00	UST 7 MW-135WT 08/01/00
Inorganics												
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	ND(0.00100)	NA	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved												
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ND(0.001)	NA	ND(0.001)	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135WT 08/23/00	UST 7 MW-135WT 10/01/00	UST 7 MW-135WT 03/01/01	UST 7 MW-135WT 05/01/01	UST 7 MW-135WT 08/01/01	UST 7 MW-135WT 02/11/02	UST 7 MW-135WT 08/02/02	UST 7 MW-135WT 03/03/03	UST 7 MW-135WT 08/03/03	UST 7 MW-135WT 02/04/04
Inorganics											
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	ND(0.00300)	ND(0.00300)	ND(0.00100)	ND(0.00100) [ND(0.00100)]	ND(0.00300)	ND(0.00100)	ND(0.00100)	ND(0.00000100)	ND(0.00100)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved											
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ND(0.003)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 MW-135WT 08/04/04	UST 7 MW-135WT 02/21/05	UST 7 MW-135WT 02/22/05	UST 7 MW-135WT 08/05/05	UST 7 MW-135WT 08/23/05	UST 7 MW-135WT 02/06/06	UST 7 MW-135WT 08/06/06	UST 7 T07-B108 07/13/92	UST 7 T07-B109 07/13/92
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00100)	ND(0.00100)	NA	ND(0.00100)	NA	ND(0.00100) [ND(0.00100)]	ND(0.00100) [ND(0.00100)]	0.180 (IDW)	0.310 (IDW)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	ND(0.001)	NA	ND(0.001)	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 T07-B110 07/13/92	UST 7 T07-B111 07/13/92	UST 7 T07-B112 07/13/92	UST 7 UST7-1 06/19/96	UST 7 UST7-1 05/01/00	UST 7 UST7-1 05/18/00	UST 7 UST7-2 06/01/94	UST 7 UST7-2 06/08/94	UST 7 UST7-2 06/01/96	UST 7 UST7-2 06/19/96	UST 7 UST7-2 07/31/98	UST 7 UST7-2 10/01/98
Inorganics													
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	1.70 (IDW)	2.60 (IDW)	0.950 (IDW)	0.00640 (IDW)	0.0277 (IDW)	0.0277 (IDW)	NA	0.00110	0.114 (IDW)	0.114 (IDW)	ND(0.100)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved													
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	0.001	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 10/27/98	UST 7 UST7-2 01/01/99	UST 7 UST7-2 01/28/99	UST 7 UST7-2 04/01/99	UST 7 UST7-2 04/12/99	UST 7 UST7-2 07/01/99	UST 7 UST7-2 07/14/99	UST 7 UST7-2 10/01/99	UST 7 UST7-2 10/22/99
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	ND(0.00100)	NA	ND(0.00100)	NA	ND(0.00300)	ND(0.00300)	ND(0.00300) [ND(0.00300)]	ND(0.00300) [ND(0.00300)]
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ND(0.003)	NA	ND(0.001)	NA	ND(0.001)	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 01/01/00	UST 7 UST7-2 05/01/00	UST 7 UST7-2 05/17/00	UST 7 UST7-2 08/01/00	UST 7 UST7-2 08/23/00	UST 7 UST7-2 10/01/00	UST 7 UST7-2 03/01/01	UST 7 UST7-2 05/01/01	UST 7 UST7-2 08/01/01
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300) [ND(0.00300)]	0.0350 (IDW)	0.0350 (IDW)	ND(0.00300)	NA	ND(0.00300)	ND(0.00300) [ND(0.00300)]	ND(0.00100)	ND(0.00100)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	43 (IDW)	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.003)	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	0.35	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 02/11/02	UST 7 UST7-2 08/02/02	UST 7 UST7-2 03/03/03	UST 7 UST7-2 08/03/03	UST 7 UST7-2 02/04/04	UST 7 UST7-2 08/04/04	UST 7 UST7-2 02/21/05	UST 7 UST7-2 02/22/05	UST 7 UST7-2 08/05/05
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300)	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00000100) [ND(0.00000100)]	0.0125 (IDW)	0.00460	0.00580	NA	0.00660 (IDW)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.0058	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-2 08/23/05	UST 7 UST7-2 02/06/06	UST 7 UST7-2 08/06/06	UST 7 UST7-3R 07/31/98	UST 7 UST7-3R 10/01/98	UST 7 UST7-3R 10/27/98	UST 7 UST7-3R 01/01/99	UST 7 UST7-3R 01/28/99	UST 7 UST7-3R 04/01/99	UST 7 UST7-3R 04/12/99	UST 7 UST7-3R 07/01/99	UST 7 UST7-3R 07/14/99
Inorganics													
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	0.00560	0.00460	ND(0.100)	ND(0.00300)	NA	ND(0.00100)	NA	ND(0.00100)	NA	ND(0.00300)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved													
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	0.0066 (IDW)	NA	NA	NA	NA	ND(0.003)	NA	ND(0.001)	NA	ND(0.001)	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-3R 10/01/99	UST 7 UST7-3R 10/22/99	UST 7 UST7-3R 01/01/00	UST 7 UST7-3R 05/01/00	UST 7 UST7-3R 05/19/00	UST 7 UST7-3R 08/01/00	UST 7 UST7-3R 08/23/00	UST 7 UST7-3R 10/01/00	UST 7 UST7-3R 03/01/01	UST 7 UST7-3R 05/01/01	UST 7 UST7-3R 08/01/01
Inorganics												
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300)	ND(0.00300)	ND(0.00400)	ND(0.00300)	ND(0.00300)	ND(0.00300)	NA	ND(0.00300)	ND(0.00300)	ND(0.00100)	ND(0.00100)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved												
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	ND(0.003)	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-3R 02/11/02	UST 7 UST7-3R 08/02/02	UST 7 UST7-3R 03/03/03	UST 7 UST7-3R 08/03/03	UST 7 UST7-3R 02/04/04	UST 7 UST7-3R 08/04/04	UST 7 UST7-3R 02/21/05	UST 7 UST7-3R 02/22/05	UST 7 UST7-3R 08/05/05
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300)	ND(0.00100)	ND(0.00100)	ND(0.00000100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	[ND(0.00100)]	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.001) [ND(0.001)]
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-3R 08/23/05	UST 7 UST7-3R 02/06/06	UST 7 UST7-3R 08/06/06	UST 7 UST7-4 06/01/94	UST 7 UST7-4 06/08/94	UST 7 UST7-4 06/01/96	UST 7 UST7-4 06/19/96	UST 7 UST7-4 07/31/98	UST 7 UST7-4 10/01/98	UST 7 UST7-4 10/27/98	UST 7 UST7-4 01/01/99	UST 7 UST7-4 01/28/99
Inorganics													
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	ND(0.00100)	ND(0.00100)	NA	ND(0.00100)	ND(0.00300)	ND(0.00300)	ND(0.100)	ND(0.00300)	NA	ND(0.00100)	NA
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved													
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ND(0.001)	NA	NA	ND(0.001)	NA	NA	NA	NA	NA	ND(0.003)	NA	ND(0.001)
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 04/01/99	UST 7 UST7-4 04/12/99	UST 7 UST7-4 07/01/99	UST 7 UST7-4 07/14/99	UST 7 UST7-4 10/01/99	UST 7 UST7-4 10/22/99	UST 7 UST7-4 01/01/00	UST 7 UST7-4 05/01/00	UST 7 UST7-4 05/18/00	UST 7 UST7-4 08/01/00
Inorganics											
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00100)	NA	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	0.0170 (IDW)	0.00940 (IDW)	0.00940 (IDW)	ND(0.00300) [ND(0.00300)]
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved											
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	ND(0.001)	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 08/23/00	UST 7 UST7-4 10/01/00	UST 7 UST7-4 03/01/01	UST 7 UST7-4 05/01/01	UST 7 UST7-4 08/01/01	UST 7 UST7-4 02/11/02	UST 7 UST7-4 08/02/02	UST 7 UST7-4 03/03/03
Inorganics									
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	ND(0.00300)	ND(0.00300)	ND(0.00100)	ND(0.00100)	ND(0.00300) [ND(0.00300)]	ND(0.00100)	ND(0.00100) [ND(0.00100)]
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved									
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ND(0.003) [ND(0.003)]	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-4 08/03/03	UST 7 UST7-4 02/04/04	UST 7 UST7-4 08/04/04	UST 7 UST7-4 02/21/05	UST 7 UST7-4 02/22/05	UST 7 UST7-4 08/05/05	UST 7 UST7-4 08/22/05	UST 7 UST7-4 02/06/06	UST 7 UST7-4 08/06/06	UST 7 UST7-5 06/01/94	UST 7 UST7-5 06/08/94
Inorganics												
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00000100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	NA	ND(0.00100)	NA	ND(0.00100)	ND(0.00100)	NA	0.00100
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved												
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.001)	NA	ND(0.001)	NA	NA	0.001	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-5 06/01/96	UST 7 UST7-5 06/19/96	UST 7 UST7-5 07/31/98	UST 7 UST7-5 10/01/98	UST 7 UST7-5 10/27/98	UST 7 UST7-5 01/01/99	UST 7 UST7-5 01/28/99	UST 7 UST7-5 04/01/99	UST 7 UST7-5 04/12/99	UST 7 UST7-5 07/01/99	UST 7 UST7-5 07/14/99	UST 7 UST7-5 10/01/99	UST 7 UST7-5 10/22/99
Inorganics														
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	0.0464 (IDW)	0.0464 (IDW)	ND(0.100)	ND(0.00300)	NA	0.0100 (IDW)	NA	0.00500	NA	0.00400	0.00400	0.00500	0.00500
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved														
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.003)	NA	0.01 (IDW)	NA	0.005	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-5 01/01/00	UST 7 UST7-5 05/01/00	UST 7 UST7-5 05/17/00	UST 7 UST7-5 08/01/00	UST 7 UST7-5 08/23/00	UST 7 UST7-5 10/01/00	UST 7 UST7-5 03/01/01	UST 7 UST7-5 05/01/01	UST 7 UST7-5 08/01/01
Inorganics										
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00300)	0.0203 (IDW) [0.0129 (IDW)]	0.0203 (IDW) [0.0129 (IDW)]	ND(0.00300)	NA	ND(0.00300) [ND(0.00300)]	0.00600	0.00100	0.00200
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved										
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	8.1 [8.9]	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	ND(0.003)	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	0.69 [0.76]	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-5 02/11/02	UST 7 UST7-5 08/02/02	UST 7 UST7-5 03/03/03	UST 7 UST7-5 08/03/03	UST 7 UST7-5 02/04/04	UST 7 UST7-5 08/04/04	UST 7 UST7-5 02/21/05	UST 7 UST7-5 02/21/05	UST 7 UST7-5 08/05/05	UST 7 UST7-5 08/22/05	UST 7 UST7-5 02/06/06	UST 7 UST7-5 08/06/06	UST 7 UST7-6 06/19/96
Inorganics														
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	0.0140 (IDW)	0.00300	0.00200	0.00000100	0.00210	0.00180	0.00180	NA	ND(0.00100)	NA	ND(0.00100)	ND(0.00100)	ND(0.00300)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved														
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	0.0018	NA	ND(0.001)	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 4. Inorganic Constituents Detected in Groundwater, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Date Collected:	Units	UST 7 UST7-MW1 06/08/94	UST 7 UST7-MW2 06/08/94	UST 7 UST7-MW3 06/08/94	UST 7 UST7-MW4 06/08/94	UST 7 UST7-MW5 06/08/94	UST 7 UST7-MW6 06/08/94	UST 8 UST8-MW1 06/08/94	UST 8 UST8-MW2 06/08/94	UST 8 UST8-MW3 06/08/94	UST 8 UST8-MW5 07/06/94
Inorganics											
Aluminum	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	ND(0.000200)	ND(0.000200)	ND(0.000200)	0.000800
Calcium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ND(0.00100)	0.00110	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)
Magnesium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Dissolved											
Aluminum (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI	Above Ground	Above Ground	Above Ground	Above Ground	Above Ground
								Storage Tank Area AST-B1 1 - 12 11/08/88	Storage Tank Area AST-B2 1 - 12 11/08/88	Storage Tank Area AST-B3 1 - 12 11/08/88	Storage Tank Area AST-B4 1 - 12 11/08/88	Storage Tank Area AST-B5 1 - 15 11/08/88
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	460 {C}	460 {C}	4	29,000,000	460	4,500	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	94	240	0.7	68,000	23	34	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	420	840	0.1	250,000	24	57	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {C,DD}	4.2	11,000,000	1,100 {C}	34,000	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	110 {I,C}	110 {I,C}	2.1 {I}	36,000,000 {I}	110 {I,C}	25,000 {I}	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	210 {C}	210 {C}	14	44,000,000	210 {C}	46,000	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	320 {I}	550 {I,C}	0.1 {I}	120,000 {I}	7.4 {I}	30 {I}	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	51	170 {C}	0.48	{ID}	{ID}	{ID}	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	140	1,900	1.7	570,000	100	260	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	34,000 {I}	2,400 {I}	7 {I}	710,000 {I}	{NLV}	{NLV}	NA	NA	NA	NA	NA
2-Butanone	mg/kg	27,000 {I,C}	27,000 {I,C,DD}	760 {I}	29,000,000 {I}	27,000 {C}	35,000 {I}	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	2,500 {C}	2,500 {C}	58	1,200,000	1,800	1,300	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	2,700 {I,C}	2,700 {I,C}	100 {I}	60,000,000 {I}	2,700 {I,C}	53,000 {I}	NA	NA	NA	NA	NA
Acetone	mg/kg	110,000 {I,C}	73,000 {I}	42 {I}	170,000,000 {I}	110,000 {I,C}	160,000 {I}	NA	NA	NA	NA	NA
Benzene	mg/kg	220 {I}	400 {I,C}	0.1 {I}	470,000 {I}	8.4 {I}	45 {I}	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
Bromodichloromethane	mg/kg	280	490	1.6 {W}	110,000	6.4	31	NA	NA	NA	NA	NA
Bromoform	mg/kg	870 {C}	870 {C}	1.6 {W}	3,600,000	770	3,100	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	280 {I,R,C}	280 {I,R,C,DD}	46 {I,R}	21,000,000 {I,R}	140 {I,R}	1,600 {I,R}	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	260 {I,C}	260 {I,C}	2 {I}	2,100,000 {I}	220 {I}	920 {I}	NA	NA	NA	NA	NA
Chloroform	mg/kg	1,500 {C}	1,500 {C}	1.6 {W}	1,600,000	38	150	NA	NA	NA	NA	NA
Chloromethane	mg/kg	1,100 {I,C}	1,100 {I,C}	22 {I}	2,600,000 {I}	10 {I}	120 {I}	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	360	500	1.6 {W}	160,000	21	80	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	140 {I,C}	140 {I,C}	1.5 {I}	13,000,000 {I}	140 {I,C}	2,400 {I}	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.0030)
Isobutanol	mg/kg	8,900 {I,C}	8,900 {I,C}	130 {I}	44,000,000 {I}	8,900 {I,C}	95,000 {I}	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	390 {C}	390 {C}	260	2,600,000	390 {C}	2,000	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300 {C}	2,300 {C}	0.1	8,300,000	240	700	NA	NA	NA	NA	NA
Styrene	mg/kg	270	520 {C}	2.7	6,900,000	520 {C}	3,300	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	88 {C}	88 {C}	0.1	6,800,000	60	600	NA	NA	NA	NA	NA
Toluene	mg/kg	250 {I,C}	250 {I,C}	16 {I}	12,000,000 {I}	250 {I,C}	3,300 {I}	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)	ND(0.00040)
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	440	500 {C,DD}	0.1	2,300,000	37	260	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	110	240	0.7	590,000	5.4	60	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	150 {I,C}	150 {I,C}	5.6 {I}	130,000,000 {I}	150 {I,C}	54,000 {I}	ND(0.00080)	ND(0.00080)	ND(0.00080)	ND(0.00080)	ND(0.00080)

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area	Above Ground Storage Tank Area
		AST-B6 1 - 13.5 11/08/88	AST-B7 1 - 12 11/08/88	TW1 1 - 2.5 09/07/89	TW1 3.5 - 5 09/07/89	TW1 6 - 7.5 09/07/89	TW1 11 - 12.5 09/07/89	TW1 13.5 - 15 09/07/89	TW2 3.5 - 5 09/07/89	TW2 6 - 7.5 09/07/89	TW2 8.5 - 10 09/07/89	TW2 11 - 12.5 09/07/89	TW2 13.5 - 15 09/07/89	TW3 1 - 2.5 09/07/89
Volatile Organics														
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.00040)	ND(0.00040)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.0020)	ND(0.00040)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(0.0010)	ND(0.00040)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	ND(0.0050)	ND(0.00080)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Above Ground Storage	Above Ground Storage	Above Ground Storage	Above Ground Storage	Above Ground Storage	Above Ground Storage	Above Ground Storage	Above Ground Storage	Above Ground Storage	Background	Background	Background	Background
		Tank Area TW3	Tank Area TW3	Tank Area TW3	Tank Area TW3	Tank Area TW4	Tank Area TW4	Tank Area TW4	Tank Area TW4	Tank Area TW4	Tank Area TW4	BG-B09 4 - 6 08/28/90	BG-B09 10 - 12 08/29/90	BG-B20 4 - 6 08/30/90
Volatile Organics														
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.014	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.035	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.040	0.025	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.090	0.035	ND(0.010)

See Notes in Table 15.

9/27/2007

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Background BG-B20 12 - 14 08/30/90	Background BG-B21 2 - 4 08/31/90	Background BG-B21 8 - 10 08/31/90	Background BG-B21 10 - 12 08/31/90	Center Street Area MW-145WT 7 - 17 06/08/95	Center Street Area SB-319 14 - 16 06/13/95	Central Type III Landfill SB-312 8 - 10 06/06/95	LNAPL Assessment Area SB-362 0 - 2 09/28/95	LNAPL Assessment Area SB-362 4 - 6 09/28/95	LNAPL Assessment Area SB-362 8 - 10 09/28/95	LNAPL Assessment Area SB-363 0 - 2 09/28/95
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059 J)	ND(0.011)	ND(0.031)	ND(0.0056 J)
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	0.073 J
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	0.0056 J	0.024 J	ND(0.062 J)	ND(0.059)	0.036 J	0.080 J	0.0034 J
2-Hexanone	mg/kg	NA	NA	NA	NA	ND(0.066 J)	ND(0.065)	ND(0.062 J)	0.0033 J	ND(0.11)	ND(0.31)	ND(0.056 J)
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	ND(0.066)	ND(0.065)	ND(0.062)	ND(0.059 J)	ND(0.11)	ND(0.31)	ND(0.056 J)
Acetone	mg/kg	NA	NA	NA	NA	0.025 J	0.085 JB	0.050 J	ND(0.059)	ND(0.11)	0.30 J	0.10 J
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	0.0026 J
Bromodichloromethane	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
Bromoform	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
Carbon Disulfide	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	0.0056 J	ND(0.031)	0.0043 J
Chlorobenzene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059 J)	ND(0.011)	ND(0.031)	ND(0.0056 J)
Chloroform	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
Chloromethane	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
Ethylbenzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059 J)	ND(0.011)	ND(0.031)	0.0047 J
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	0.0049 J	ND(0.0065)	0.0065	0.0031 J	ND(0.011)	ND(0.031)	ND(0.0056)
Styrene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059 J)	ND(0.011)	ND(0.031)	ND(0.0056 J)
Tetrachloroethene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059 J)	ND(0.011)	ND(0.031)	ND(0.0056 J)
Toluene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.024	ND(0.0065)	0.0052 J	ND(0.0059 J)	0.019 J	0.017 J	0.074 J
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
Trichloroethene	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	0.0090 J
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	ND(0.0066)	ND(0.0065)	ND(0.0062)	ND(0.0059)	ND(0.011)	ND(0.031)	ND(0.0056)
Total Xylenes	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0066)	0.0089 J	ND(0.0062)	ND(0.0059 J)	0.024 J	0.097	0.017 J

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-363 4 - 6 09/28/95	LNAPL Assessment Area SB-363 8 - 10 09/28/95	LNAPL Assessment Area US-1 0 - 1 06/12/95	LNAPL Assessment Area US-2 0 - 1 06/12/95	LNAPL Assessment Area US-3 0 - 1 06/12/95	LNAPL Assessment Area US-4 0 - 1 06/12/95	LNAPL Assessment Area US-6 0 - 1 06/12/95	LNAPL Assessment Area US-7 0 - 1 06/12/95	LNAPL Assessment Area US-8 0 - 1 06/12/95	Parking Lot Area/Buffer Basin BH9 0 - 2 03/06/07	Parking Lot Area/Buffer Basin BH9 2 - 4 03/06/07
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
1,1,2-Trichloroethane	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.23 J)	ND(0.25 J)
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.092)	ND(0.098)
1,2-Dichloroethene (total)	mg/kg	0.0049 J	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	NA	NA
1,2-Dichloropropane	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
1,3-Dichlorobenzene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.092)	ND(0.098)
1,4-Dichlorobenzene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.092)	ND(0.098)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	ND(0.055)	ND(0.061)	0.0094 J	0.010 J	0.0060 J	ND(0.053)	ND(0.052)	ND(0.051)	ND(0.051)	ND(0.69)	ND(0.74)
2-Hexanone	mg/kg	ND(0.055)	ND(0.061)	ND(0.063)	ND(0.054)	ND(0.053)	ND(0.053)	ND(0.052)	ND(0.051)	ND(0.051)	ND(2.3)	ND(2.5)
4-Methyl-2-pentanone	mg/kg	ND(0.055)	ND(0.061)	ND(0.063)	ND(0.054)	ND(0.053)	ND(0.053)	ND(0.052)	ND(0.051)	ND(0.051)	ND(2.3)	ND(2.5)
Acetone	mg/kg	0.038 J	ND(0.061)	0.052 J	0.066 J	0.039 J	ND(0.053 J)	ND(0.052 J)	ND(0.051 J)	ND(0.051 J)	0.93	0.92
Benzene	mg/kg	ND(0.0055)	0.0075	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Bromodichloromethane	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.092)	ND(0.098)
Bromoform	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.092)	ND(0.098)
Carbon Disulfide	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.23)	ND(0.25)
Chlorobenzene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Chloroform	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Chloromethane	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063 J)	ND(0.0054 J)	ND(0.0053 J)	ND(0.0053 J)	ND(0.0052 J)	ND(0.0051 J)	ND(0.0051 J)	ND(0.23)	ND(0.25)
cis-1,3-Dichloropropene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(1.1 J)	ND(1.2 J)
Dibromochloromethane	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Ethylbenzene	mg/kg	0.0045 J	0.014	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.23)	ND(0.25)
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.077 J	ND(1.2 J)
Methylene Chloride	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0039)	ND(0.0050)	ND(0.0054)	ND(0.014 J)	ND(0.010)	ND(0.015 J)	ND(0.0095 J)	ND(0.23)	ND(0.25)
Styrene	mg/kg	ND(0.0055)	0.0093	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Tetrachloroethene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Toluene	mg/kg	0.083 J	0.042	0.017	0.018	ND(0.011)	ND(0.0064 J)	ND(0.0029)	ND(0.0090 J)	0.016 J	0.011 J	ND(0.098)
trans-1,3-Dichloropropene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Trichloroethene	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Total 1,3-Dichloropropenes	mg/kg	ND(0.0055)	ND(0.0061)	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.046)	ND(0.049)
Total Xylenes	mg/kg	0.020 J	0.033	ND(0.0063)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0052)	ND(0.0051)	ND(0.0051)	0.056 J	0.033 J

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/Buffer Basin BH10 0 - 2 03/06/07	Parking Lot Area/Buffer Basin BH10 2 - 4 03/06/07	Parking Lot Area/Buffer Basin SB-336 0 - 2 06/23/95	Parking Lot Area/Buffer Basin SB-337 4 - 6 06/23/95	Parking Lot Area/Buffer Basin SB-341 2 - 4 06/26/95	Parking Lot Area/Buffer Basin SB-343 2 - 4 06/26/95	Parking Lot Area/Buffer Basin SB-344 2 - 4 06/26/95	Parking Lot Area/Buffer Basin SB-348 2 - 4 06/27/95	Parking Lot Area/Buffer Basin SB-349 2 - 4 06/27/95	Parking Lot Area/Buffer Basin SB-354 0 - 2 06/28/95	Parking Lots East of Plant (CTC) PL-1 0.75 - 1.21 08/10/01
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
1,1,2-Trichloroethane	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
1,2,4-Trichlorobenzene	mg/kg	ND(0.21 J)	ND(0.19 J)	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0060)
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	ND(0.082)	ND(0.076)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
1,2-Dichloroethene (total)	mg/kg	NA	NA	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	NA
1,2-Dichloropropane	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
1,3-Dichlorobenzene	mg/kg	ND(0.082)	ND(0.076)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
1,4-Dichlorobenzene	mg/kg	ND(0.082)	ND(0.076)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	ND(0.62)	ND(0.57)	ND(0.053)	ND(0.053)	0.020 J	0.0014 J	0.014 J	0.011 J	ND(0.059)	0.0037 J	ND(0.0060)
2-Hexanone	mg/kg	ND(2.1)	ND(1.9)	ND(0.053)	ND(0.053)	ND(0.072)	ND(0.053)	ND(0.061)	ND(0.057)	ND(0.059)	ND(0.053)	ND(0.0060)
4-Methyl-2-pentanone	mg/kg	ND(2.1)	ND(1.9)	ND(0.053)	ND(0.053)	ND(0.072)	ND(0.053)	ND(0.061)	ND(0.057)	ND(0.059)	ND(0.053)	ND(0.0060)
Acetone	mg/kg	0.67	0.63	0.0047 J	ND(0.053)	0.097	0.018 J	0.084	0.11	0.084	0.013 J	ND(0.013)
Benzene	mg/kg	ND(0.041)	0.012 J	ND(0.0053)	ND(0.0053)	0.035	0.0054	0.0034 J	0.0014 J	0.0066	0.0064	ND(0.0060)
Bromodichloromethane	mg/kg	ND(0.082)	ND(0.076)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	0.0044 J	ND(0.0053)	ND(0.0060)
Bromoform	mg/kg	ND(0.082)	ND(0.076)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Carbon Disulfide	mg/kg	ND(0.21)	ND(0.19)	ND(0.0053)	ND(0.0053)	0.0038 J	ND(0.0053)	ND(0.0061)	ND(0.0057)	0.012	ND(0.0053)	ND(0.0060)
Chlorobenzene	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Chloroform	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	0.012	ND(0.0053)	ND(0.0060)
Chloromethane	mg/kg	ND(0.21)	ND(0.19)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
cis-1,3-Dichloropropene	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Cyclohexane	mg/kg	ND(0.99 J)	ND(0.92 J)	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0060)
Dibromochloromethane	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	0.0012 J	ND(0.0053)	ND(0.0060)
Ethylbenzene	mg/kg	ND(0.041)	0.010 J	ND(0.0053)	ND(0.0053)	0.0049 J	0.0038 J	0.0025 J	ND(0.0057)	0.0059	0.0037 J	ND(0.0060)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	ND(0.21)	ND(0.19)	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0060)
Methyl cyclohexane	mg/kg	0.060 J	ND(0.92 J)	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0060)
Methylene Chloride	mg/kg	ND(0.21)	ND(0.19)	0.0030 J	ND(0.0053)	0.0088	0.0038 J	0.0035 J	0.0029 J	0.0058 J	0.0017 J	ND(0.0060 J)
Styrene	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Tetrachloroethene	mg/kg	0.012 J	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Toluene	mg/kg	0.0096 J	0.019 J	0.073	0.0049 J	0.059	0.28	0.18	0.040	0.21	0.29	0.0010 J
trans-1,3-Dichloropropene	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Trichloroethene	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Total 1,3-Dichloropropenes	mg/kg	ND(0.041)	ND(0.038)	ND(0.0053)	ND(0.0053)	ND(0.0072)	ND(0.0053)	ND(0.0061)	ND(0.0057)	ND(0.0059)	ND(0.0053)	ND(0.0060)
Total Xylenes	mg/kg	0.047 J	0.056 J	0.0034 J	ND(0.0053)	0.0068 J	0.014	0.0098	0.0023 J	0.025	0.013	0.0020 J

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lots East of Plant (CTC) PL-2 0.75 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-3 0.67 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-4 0.75 - 1.5 08/10/01	Parking Lots East of Plant (CTC) VE-1 0.75 - 1.58 08/10/01	Parking Lots East of Plant (CTC) VE-2 0.92 - 1.67 08/10/01	Previous Metal Feedstock FS-1 0 - 1 06/12/95	Previous Metal Feedstock FS-2 0 - 1 06/12/95	Previous Metal Feedstock FS-3 0 - 1 06/12/95	Previous Metal Feedstock FS-4 0 - 1 06/12/95	Previous Metal Feedstock FS-5 0 - 1 06/12/95
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,1,2-Trichloroethane	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,2,4-Trichlorobenzene	mg/kg	NA	ND(0.0060)	ND(0.0060 J)	ND(0.0060)	ND(0.0060)	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,2-Dichloropropane	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,3-Dichlorobenzene	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,4-Dichlorobenzene	mg/kg	NA	ND(0.0060)	ND(0.0060 J)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
2-Hexanone	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
4-Methyl-2-pentanone	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Acetone	mg/kg	ND(0.011) [ND(0.012)]	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.0054 J)	ND(0.0054 J)	ND(0.0056 J)	ND(0.0056 J)	ND(0.0054 J)
Benzene	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Bromodichloromethane	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Bromoform	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Carbon Disulfide	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	0.0030 J	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Chlorobenzene	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Chloroform	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Chloromethane	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054 J)	ND(0.0054 J)	ND(0.0056)	ND(0.0056 J)	ND(0.0054 J)
cis-1,3-Dichloropropene	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Cyclohexane	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Ethylbenzene	mg/kg	ND(0.0050 J) [0.0020 J]	ND(0.0060)	ND(0.0060 J)	0.016 J	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	0.0010 J	ND(0.0060)	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	0.0020 J	ND(0.0060)	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0050)	ND(0.0067)	ND(0.0090 J)	ND(0.0040)	ND(0.0067 J)
Styrene	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Tetrachloroethene	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Toluene	mg/kg	ND(0.0050 J) [0.0040 J]	ND(0.0060)	0.00090 J	0.038 J	ND(0.0060)	ND(0.0054)	0.013 J	ND(0.0052)	ND(0.0023)	ND(0.0086 J)
trans-1,3-Dichloropropene	mg/kg	ND(0.0050 J) [ND(0.0060 J)]	ND(0.0060)	ND(0.0060 J)	ND(0.0060 J)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Trichloroethene	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Total 1,3-Dichloropropenes	mg/kg	ND(0.0050) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)
Total Xylenes	mg/kg	ND(0.0050 J) [0.010 J]	ND(0.0060)	ND(0.0060 J)	0.079 J	ND(0.0060)	ND(0.0054)	ND(0.0054)	ND(0.0056)	ND(0.0056)	ND(0.0054)

See Notes in Table 15.

9/27/2007

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock FS-6 0 - 1 06/12/95	Previous Metal Feedstock FS-7 0 - 1 06/12/95	Previous Metal Feedstock FS-8 0 - 1 06/12/95	Previous Metal Feedstock SB-304 0 - 1 02/08/95	Previous Metal Feedstock SB-304 2 - 4 02/08/95	Previous Metal Feedstock SB-304 6 - 8 02/08/95	Previous Metal Feedstock SB-305 0 - 1 02/08/95	Previous Metal Feedstock SB-305 2 - 4 02/08/95	Previous Metal Feedstock SB-305 6 - 8 02/08/95	Previous Metal Feedstock SB-305 10 - 12 02/08/95	Previous Metal Feedstock SB-352 0 - 2 06/28/95
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,1,2-Trichloroethane	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,2-Dichloroethene (total)	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,2-Dichloropropane	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,3-Dichlorobenzene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,4-Dichlorobenzene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(1.4)	NA
2-Butanone	mg/kg	ND(0.051) [ND(0.051)]	ND(0.054)	ND(0.052)	ND(0.054)	ND(0.053)	ND(0.063)	ND(0.056 J)	ND(0.054)	ND(0.056)	0.012 J	0.0036 J
2-Hexanone	mg/kg	ND(0.051) [ND(0.051)]	ND(0.054 J)	ND(0.052)	ND(0.054)	ND(0.053)	ND(0.063)	ND(0.056 J)	ND(0.054)	ND(0.056)	ND(0.069)	ND(0.056)
4-Methyl-2-pentanone	mg/kg	ND(0.051) [ND(0.051)]	ND(0.054)	ND(0.052)	ND(0.054)	ND(0.053)	ND(0.063)	ND(0.056 J)	ND(0.054)	ND(0.056)	ND(0.069)	ND(0.056)
Acetone	mg/kg	ND(0.051 J) [ND(0.0096 J)]	ND(0.054 J)	ND(0.052 J)	ND(0.054)	ND(0.0053)	ND(0.0092)	ND(0.056 J)	ND(0.054)	0.034 JB	0.063 JB	0.017 J
Benzene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	0.0017 J
Bromodichloromethane	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Bromoform	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Carbon Disulfide	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	0.0015 J
Chlorobenzene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Chloroform	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Chloromethane	mg/kg	ND(0.0051 J) [ND(0.0051 J)]	ND(0.0054 J)	ND(0.0052 J)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
cis-1,3-Dichloropropene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Ethylbenzene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.69)	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.014 J) [ND(0.0095 J)]	ND(0.012)	ND(0.0081 J)	ND(0.0086)	ND(0.0080)	ND(0.0064)	0.032 J	ND(0.019)	ND(0.013)	ND(0.0069)	0.0019 J
Styrene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Tetrachloroethene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	0.0016 J
Toluene	mg/kg	0.025 J [0.026 J]	ND(0.0080 J)	0.026 J	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	0.025	0.017	0.048
trans-1,3-Dichloropropene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Trichloroethene	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Total 1,3-Dichloropropenes	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056)	ND(0.0054)	ND(0.0056)	ND(0.0069)	ND(0.0056)
Total Xylenes	mg/kg	ND(0.0051) [ND(0.0051)]	ND(0.0054 J)	ND(0.0052)	ND(0.0054)	ND(0.0053)	ND(0.0063)	ND(0.0056 J)	ND(0.0054)	ND(0.0056)	ND(0.0069)	0.0020 J

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Primary Settling Pond BH7 0 - 2 03/06/07	Primary Settling Pond BH7 2 - 4 03/06/07	Primary Settling Pond BH8 0 - 2 03/06/07	Primary Settling Pond BH8 2 - 4 03/06/07	Primary Settling Pond NS-1 0 - 14 06/23/95	Railyard Area BH11 0 - 2 03/06/07	Railyard Area BH11 2 - 4 03/06/07	Railyard Area BH12 0 - 2 03/06/07	Railyard Area BH12 2 - 4 03/06/07	Railyard Area NS-RS-4 2.5 - 3 06/13/95	Railyard Area RS-1 0 - 1 06/13/95	Railyard Area RS-2 0 - 1 06/13/95
Volatile Organics													
1,1,1-Trichloroethane	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
1,1,2-Trichloroethane	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
1,2,4-Trichlorobenzene	mg/kg	ND(0.23 J)	ND(0.25 J)	ND(0.23 J)	ND(0.24 J)	NA	ND(0.26 J)	ND(0.24 J)	0.061 J [0.063 J]	ND(0.22 J)	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	ND(0.090)	ND(0.10)	ND(0.092)	ND(0.097)	ND(0.0074)	ND(0.10)	ND(0.095)	ND(0.090) [ND(0.091)]	ND(0.089)	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	ND(0.0074)	NA	NA	NA	NA	NA	ND(0.0053)	ND(0.0054)
1,2-Dichloropropane	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
1,3-Dichlorobenzene	mg/kg	ND(0.090)	ND(0.10)	ND(0.092)	ND(0.097)	ND(0.0074)	ND(0.10)	ND(0.095)	ND(0.090) [ND(0.091)]	ND(0.089)	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
1,4-Dichlorobenzene	mg/kg	ND(0.090)	ND(0.10)	ND(0.092)	ND(0.097)	ND(0.0074)	ND(0.10)	ND(0.095)	0.010 J [ND(0.091)]	ND(0.089)	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	NA	NA
2-Butanone	mg/kg	ND(0.68)	ND(0.76)	ND(0.69)	ND(0.73)	0.018 J	ND(0.78)	ND(0.72)	ND(0.68) [ND(0.68)]	ND(0.67)	0.0070 J	ND(0.053)	ND(0.054)
2-Hexanone	mg/kg	ND(2.3)	ND(2.5)	ND(2.3)	ND(2.4)	ND(0.074)	ND(2.6)	ND(2.4)	ND(2.3) [ND(2.3)]	ND(2.2)	ND(0.063)	ND(0.053 J)	ND(0.054)
4-Methyl-2-pentanone	mg/kg	ND(2.3)	ND(2.5)	ND(2.3)	ND(2.4)	ND(0.074)	ND(2.6)	ND(2.4)	ND(2.3) [ND(2.3)]	ND(2.2)	ND(0.063)	ND(0.053)	ND(0.054)
Acetone	mg/kg	0.73	0.81	0.80	0.75	0.065 JB	1.3	0.59 J	0.71 J [0.58 J]	0.51 J	ND(0.067 J)	ND(0.053 J)	ND(0.054 J)
Benzene	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	0.029 J	ND(0.0074)	0.088	0.016 J	ND(0.045) [ND(0.046)]	0.0076 J	ND(0.0063)	ND(0.0053)	ND(0.0054)
Bromodichloromethane	mg/kg	ND(0.090)	ND(0.10)	ND(0.092)	ND(0.097)	ND(0.0074)	ND(0.10)	ND(0.095)	ND(0.090) [ND(0.091)]	ND(0.089)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Bromoform	mg/kg	ND(0.090)	ND(0.10)	ND(0.092)	ND(0.097)	ND(0.0074)	ND(0.10)	ND(0.095)	ND(0.090) [ND(0.091)]	ND(0.089)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Carbon Disulfide	mg/kg	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.24)	ND(0.0074)	ND(0.26)	ND(0.24)	ND(0.23) [ND(0.23)]	ND(0.22)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Chlorobenzene	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
Chloroform	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Chloromethane	mg/kg	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.24)	ND(0.0074)	ND(0.26)	ND(0.24)	ND(0.23) [ND(0.23)]	ND(0.22)	ND(0.0063)	ND(0.0053 J)	ND(0.0054 J)
cis-1,3-Dichloropropene	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Cyclohexane	mg/kg	0.051 J	0.062 J	0.063 J	0.090 J	NA	0.41 J	0.23 J	ND(1.1 J) [ND(1.1 J)]	ND(1.1 J)	NA	NA	NA
Dibromochloromethane	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Ethylbenzene	mg/kg	ND(0.045)	ND(0.051)	0.011 J	0.027 J	ND(0.0074)	0.17	0.33	ND(0.045) [ND(0.046)]	0.0077 J	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	NA	NA
Isopropylbenzene	mg/kg	ND(0.23)	ND(0.25)	ND(0.23)	0.060 J	NA	0.10 J	0.097 J	ND(0.23) [ND(0.23)]	0.051 J	NA	NA	NA
Methyl cyclohexane	mg/kg	0.082 J	0.10 J	0.14 J	0.19 J	NA	0.98 J	0.78 J	ND(1.1 J) [ND(1.1 J)]	ND(1.1 J)	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.24)	ND(0.0070)	ND(0.26)	ND(0.24)	ND(0.23) [ND(0.23)]	ND(0.22)	ND(0.0063)	ND(0.019 J)	ND(0.0068)
Styrene	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
Tetrachloroethene	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	0.011 J	ND(0.0063)	ND(0.0053 J)	ND(0.0054)
Toluene	mg/kg	0.016 J	0.025 J	0.043 J	0.088 J	0.018	0.62	ND(0.095)	ND(0.090) [ND(0.091)]	ND(0.089)	ND(0.0059)	ND(0.0053 J)	ND(0.0054)
trans-1,3-Dichloropropene	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Trichloroethene	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Total 1,3-Dichloropropenes	mg/kg	ND(0.045)	ND(0.051)	ND(0.046)	ND(0.049)	ND(0.0074)	ND(0.052)	ND(0.048)	ND(0.045) [ND(0.046)]	ND(0.044)	ND(0.0063)	ND(0.0053)	ND(0.0054)
Total Xylenes	mg/kg	0.065 J	0.088 J	0.12 J	0.21	ND(0.0074)	1.2	0.36	0.050 J [ND(0.14)]	0.055 J	ND(0.0063)	ND(0.0053 J)	ND(0.0054)

See Notes in Table 15.

9/27/2007

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-3 0 - 1 06/13/95	Railyard Area RS-4 0 - 1 06/13/95	Railyard Area RS-6 0 - 1 06/13/95	Railyard Area RS-7 0 - 1 06/13/95	Railyard Area RS-8 0 - 1 06/13/95	Secondary Settling Pond NS-SD-10 2 - 3.4 06/20/95	Secondary Settling Pond NS-SD-11 2.3 - 2.9 06/20/95	Secondary Settling Pond NS-SD-12 2.6 - 3.4 06/20/95	Secondary Settling Pond NS-SD-13 3.4 - 4.1 06/20/95	Secondary Settling Pond NS-SD-14 2.3 - 3.1 06/20/95	Secondary Settling Pond NS-SD-15 2.3 - 3.4 06/20/95
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,1,2-Trichloroethane	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,2-Dichloroethene (total)	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,2-Dichloropropane	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,3-Dichlorobenzene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,4-Dichlorobenzene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	ND(0.054)	ND(0.053) [ND(0.053 J)]	ND(0.052)	ND(0.054 J)	ND(0.052)	0.011 J	0.014 J	0.011 J	0.017 J	0.017 J	0.0044 J
2-Hexanone	mg/kg	ND(0.054)	ND(0.053) [ND(0.053 J)]	ND(0.052)	ND(0.054 J)	ND(0.052)	R	ND(0.067)	ND(0.071)	ND(0.075)	ND(0.064)	ND(0.070)
4-Methyl-2-pentanone	mg/kg	ND(0.054)	ND(0.053) [ND(0.053 J)]	ND(0.052)	ND(0.054 J)	ND(0.052)	R	ND(0.067)	ND(0.071)	ND(0.075)	ND(0.064)	ND(0.070)
Acetone	mg/kg	ND(0.054 J)	ND(0.053 J) [ND(0.053 J)]	ND(0.052 J)	ND(0.054 J)	ND(0.052 J)	0.044 J	0.047 J	0.040 J	0.063 J	0.065	0.020 J
Benzene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Bromodichloromethane	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Bromoform	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Carbon Disulfide	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	ND(0.0067 J)	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Chlorobenzene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Chloroform	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	ND(0.0067 J)	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Chloromethane	mg/kg	ND(0.0054 J)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	ND(0.0067 J)	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
cis-1,3-Dichloropropene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Ethylbenzene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.0078 J)	ND(0.0052) [ND(0.0050 J)]	ND(0.0061)	ND(0.021 J)	ND(0.010)	ND(0.018 J)	ND(0.0060)	ND(0.0070)	ND(0.10)	ND(0.018)	ND(0.10)
Styrene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Tetrachloroethene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Toluene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0071 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
trans-1,3-Dichloropropene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Trichloroethene	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054 J)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Total 1,3-Dichloropropenes	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	ND(0.0054)	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)
Total Xylenes	mg/kg	ND(0.0054)	ND(0.0053) [ND(0.0053 J)]	ND(0.0052)	0.0033 J	ND(0.0052)	R	ND(0.0067)	ND(0.0071)	ND(0.0075)	ND(0.0064)	ND(0.0070)

See Notes in Table 15.

9/27/2007

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-16 2.7 - 3.7 06/20/95	Secondary Settling Pond NS-SD-17 2.4 - 3 06/20/95	Secondary Settling Pond NS-SD-18 1 - 14 06/20/95	Secondary Settling Pond NS-SD-19 4 - 5.1 06/20/95	Secondary Settling Pond NS-SD-20 1.9 - 2.5 06/20/95	Secondary Settling Pond NS-SD-21 1.8 - 2.4 06/20/95	Stormwater pond NS-7 0 - 4.5 06/21/95	Stormwater pond NS-8 0 - 10 06/21/95	Stormwater pond NS-9 0 - 4.5 06/21/95	Stormwater pond NS-10 0 - 10 06/21/95	UST 1 T01-B005 9 - 11 08/28/90
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,1,2-Trichloroethane	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,2-Dichloroethene (total)	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,2-Dichloropropane	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,3-Dichlorobenzene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,4-Dichlorobenzene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	0.012 J	0.058 J	ND(0.067) [0.0056 J]	0.012 J	0.011 J	0.024 J	0.0044 J	0.0091 J	0.0063 J	0.0031 J	NA
2-Hexanone	mg/kg	ND(0.076 J)	ND(0.071 J)	ND(0.067) [ND(0.066)]	ND(0.067)	ND(0.077 J)	ND(0.066)	ND(0.063)	ND(0.072)	ND(0.065)	ND(0.067)	NA
4-Methyl-2-pentanone	mg/kg	ND(0.076 J)	ND(0.071 J)	ND(0.067) [ND(0.066)]	ND(0.067)	ND(0.077 J)	ND(0.066)	ND(0.063)	ND(0.072)	ND(0.065)	ND(0.067)	NA
Acetone	mg/kg	0.038 J	0.21 J	0.018 J [0.019 J]	0.070	0.050 J	0.094	0.019 J	0.028 J	0.027 J	ND(0.067)	NA
Benzene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	ND(0.010)
Bromodichloromethane	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Bromoform	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Carbon Disulfide	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Chlorobenzene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Chloroform	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Chloromethane	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
cis-1,3-Dichloropropene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Ethylbenzene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.068)	ND(0.062)	ND(0.069) [ND(0.045)]	ND(0.038)	ND(0.012 J)	ND(0.0080)	ND(0.039)	ND(0.0087)	ND(0.0060)	ND(0.0070)	NA
Styrene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Tetrachloroethene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Toluene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	0.010	0.011	ND(0.0067)	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Trichloroethene	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Total 1,3-Dichloropropenes	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	NA
Total Xylenes	mg/kg	ND(0.0076)	ND(0.0071)	ND(0.0067) [ND(0.0066)]	ND(0.0067)	ND(0.0077 J)	ND(0.0066)	ND(0.0063)	ND(0.0072)	ND(0.0065)	ND(0.0067)	ND(0.010)

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 1 T01-B006 9 - 11 08/28/90	UST 1 T01-B007 7 - 9 08/28/90	UST 1 T01-B007 11 - 13 08/28/90	UST 1 T01-B008 5 - 7 08/28/90	UST 1 T01-B008 11 - 13 08/28/90	UST 1 T01-B008 13 - 15 08/28/90	UST 1 T01-B102 5 - 7 07/09/92	UST 2 T02-B001 6 - 8 08/28/90	UST 2 T02-B001 8 - 10 08/28/90	UST 2 T02-B002 6 - 8 08/28/90	UST 2 T02-B002 8 - 10 08/28/90	UST 2 T02-B003 6 - 8 08/28/90	UST 2 T02-B004 2 - 4 08/28/90	UST 2 T02-B004 6 - 8 08/28/90	
Volatile Organics																
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	0.016	ND(0.010)	ND(0.010)	ND(0.010)	0.011	ND(0.010)	ND(0.010)	ND(0.010)	0.060	ND(0.010)	0.015	0.015
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	0.012	0.013	ND(0.010)	ND(0.010)	0.025	ND(0.010)	ND(0.010)	ND(0.010)	0.015	ND(0.010)	0.035	0.035
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.080	ND(0.010)	0.030	ND(0.010)	0.025	ND(0.010)	0.070	0.070
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	0.024	0.035	0.012	ND(0.010)	0.20	ND(0.010)	0.015	ND(0.010)	0.040	0.022	0.18	0.18

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 2 T02-B047 2 - 4 09/07/90	UST 2 T02-B047 8 - 10 09/07/90	UST 2 T02-B048 2 - 4 09/07/90	UST 2 T02-B048 8 - 10 09/07/90	UST 2 T02-B057 4 - 6 09/11/90	UST 2 T02-B057 8 - 10 09/11/90	UST 3 T03-B024 12 - 14 08/31/90	UST 3 T03-B024 14 - 16 08/31/90	UST 3 T03-B025 8 - 9.5 09/04/90	UST 3 T03-B049 4 - 6 09/10/90	UST 3 T03-B049 8 - 10 09/10/90	UST 3 T03-B049 10 - 12 09/10/90	UST 3 T03-B050 4 - 6 09/10/90	UST 3 T03-B050 10 - 12 09/10/90
Volatile Organics															
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.40 (IDWP)	ND(0.010)	0.015	ND(0.010)	0.25 (IDWP)	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.95	ND(0.010)	ND(0.010)	ND(0.010)	0.65	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	0.035	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.020	3.1	ND(0.010)	0.025	0.020	0.80	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	0.030	ND(0.010)	0.015	0.020	0.025	ND(0.010)	0.035	3.4	ND(0.010)	0.020	ND(0.010)	3.3	ND(0.010)	0.017

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 3 T03-B050 12 - 14 09/10/90	UST 3 T03-B051 4 - 6 09/10/90	UST 3 T03-B051 10 - 12 09/10/90	UST 3 T03-B051 12 - 14 09/10/90	UST 4 T04-B026 8 - 9.5 09/04/90	UST 4 T04-B026 10 - 12 09/04/90	UST 4 T04-B026 12 - 14 09/04/90	UST 4 T04-B103 5 - 7 07/10/92	UST 4 T04-B103 13 - 15 07/10/92	UST 4 T04-B104 5 - 7 07/10/92	UST 4 T04-B104 18 - 20 07/10/92	UST 4 T04-B105 1 - 3 07/10/92	UST 4 T04-B105 18 - 20 07/10/92	UST 4 T04-B106 1 - 3 07/10/92	
Volatile Organics																
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	2.3 (IDWP)	ND(0.010)	ND(0.015)	5.6 (IDWP)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	0.015	ND(0.010)	0.020	4.0 (IDWP)	ND(0.010)	0.015	5.8 (IDWP)	ND(0.010)	ND(0.010)	ND(0.010)	0.013	ND(0.010)	0.022	0.084	
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	0.045	ND(0.010)	0.050	36 (IDWP)	ND(0.010)	0.030	12	ND(0.010)	ND(0.010)	0.025	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.033
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	0.070	ND(0.010)	0.12	15 (IDWP)	ND(0.010)	0.060	53 (IDWP)	0.019	0.16	0.046	0.032	0.027	0.080	0.091	

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 4 T04-B106 13 - 15 07/10/92	UST 4 T04-B107 5 - 7 07/13/92	UST 4 T04-B107 13 - 15 07/13/92	UST 4 UST4-MW1 10 - 12 06/01/94	UST 4 UST4-MW2 8 - 10 06/01/94	UST 4 UST4-MW3 10 - 12 06/01/94	UST 4 UST4-MW4 10 - 12 06/02/94	UST 5 T05-B052 10 - 12 09/10/90	UST 5 T05-B052 12 - 14 09/10/90	UST 5 T05-B053 6 - 8 09/10/90	UST 5 T05-B053 10 - 12 09/10/90	UST 5 T05-B054 4 - 6 09/10/90	UST 5 T05-B054 12 - 14 09/11/90
Volatile Organics														
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.015	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.010)	0.024	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.10	0.085	ND(0.010)	ND(0.010)	ND(0.010)	0.015
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	ND(0.010)	0.090	ND(0.010)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.010)	0.065	ND(0.010)	ND(0.010)	ND(0.010)	0.012

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 5 T05-B060 8 - 10 10/03/90	UST 5 T05-B060 10 - 12 10/03/90	UST 5 T05-B061 10 - 12 10/04/90	UST 5 T05-B061 14 - 16 10/04/90	UST 6 T06-B010 11 - 13 08/29/90	UST 6 T06-B010 13 - 15 08/29/90	UST 6 T06-B011 9 - 11 08/29/90	UST 6 T06-B011 14 - 16 08/29/90	UST 6 T06-B012 11 - 13 08/30/90	UST 6 T06-B012 13 - 15 08/30/90	UST 6 T06-B058 0 - 2 10/03/90	UST 6 T06-B058 6 - 8 10/03/90	UST 6 T06-B058 12 - 14 10/03/90	UST 6 T06-B059 0 - 2 10/03/90	
Volatile Organics																
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	0.013	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	0.020	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.035	ND(0.010)	0.020	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 6 T06-B059 8 - 10 10/03/90
Volatile Organics		
1,1,1-Trichloroethane	mg/kg	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA
1,1,2-Trichloroethane	mg/kg	NA
1,2,4-Trichlorobenzene	mg/kg	NA
1,2,4-Trimethylbenzene	mg/kg	NA
1,2-Dichlorobenzene	mg/kg	NA
1,2-Dichloroethene (total)	mg/kg	NA
1,2-Dichloropropane	mg/kg	NA
1,3-Dichlorobenzene	mg/kg	NA
1,4-Dichlorobenzene	mg/kg	NA
1,4-Dioxane	mg/kg	NA
2-Butanone	mg/kg	NA
2-Hexanone	mg/kg	NA
4-Methyl-2-pentanone	mg/kg	NA
Acetone	mg/kg	NA
Benzene	mg/kg	ND(0.010)
Bromodichloromethane	mg/kg	NA
Bromoform	mg/kg	NA
Carbon Disulfide	mg/kg	NA
Chlorobenzene	mg/kg	NA
Chloroform	mg/kg	NA
Chloromethane	mg/kg	NA
cis-1,3-Dichloropropene	mg/kg	NA
Cyclohexane	mg/kg	NA
Dibromochloromethane	mg/kg	NA
Ethylbenzene	mg/kg	ND(0.010)
Isobutanol	mg/kg	NA
Isopropylbenzene	mg/kg	NA
Methyl cyclohexane	mg/kg	NA
Methylene Chloride	mg/kg	NA
Styrene	mg/kg	NA
Tetrachloroethene	mg/kg	NA
Toluene	mg/kg	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA
Trichloroethene	mg/kg	NA
Total 1,3-Dichloropropenes	mg/kg	NA
Total Xylenes	mg/kg	ND(0.010)

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 6 T06-B059 14 - 16 10/03/90	UST 7 BBL-MW1 4 - 6 05/02/96	UST 7 BBL-MW2 4 - 6 05/02/96	UST 7 BBL-MW3 6 - 8 05/02/96	UST 7 BBL-MW4 4 - 6 05/03/96	UST 7 BBL-MW5 4 - 6 05/03/96	UST 7 BBL-SB1 4 - 6 05/06/96	UST 7 BBL-SB1 8 - 10 05/06/96	UST 7 BBL-SB2 0 - 2 05/07/96	UST 7 BBL-SB2 8 - 10 05/07/96	UST 7 BBL-SB3 6 - 8 05/07/96	UST 7 BBL-SB3 8 - 10 05/07/96
Volatile Organics													
1,1,1-Trichloroethane	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
1,1,2,2-Tetrachloroethane	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
1,1,2-Trichloroethane	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	0.023	R	38 J (IDWP)	R	R	R	62 (IDWP)	R	0.0055 J	0.11	84 J (IDWP)
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	ND(0.13)	ND(0.058)	ND(10)	0.0034 J	0.0038 J	0.0036 J	ND(35)	0.013 J	ND(0.057)	ND(0.059)	ND(37)
2-Hexanone	mg/kg	NA	ND(0.13)	ND(0.058)	ND(10)	ND(0.055 J)	ND(0.056)	ND(0.057)	ND(35)	ND(0.054)	ND(0.057)	ND(0.059)	ND(37)
4-Methyl-2-pentanone	mg/kg	NA	ND(0.13)	ND(0.058)	ND(10)	ND(0.055 J)	ND(0.056)	ND(0.057)	ND(35)	ND(0.054)	ND(0.057)	ND(0.059)	ND(37)
Acetone	mg/kg	NA	ND(0.13)	ND(0.058)	ND(10)	0.0041 J	0.039 J	0.040 J	ND(35)	0.043 J	0.033 J	0.0083 J	5.0 J
Benzene	mg/kg	ND(0.010)	ND(0.013)	0.0030 J	7.3 J (IDWP)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	0.0025 J	0.010	0.043	21 J (IDWP, ISVIA)
Bromodichloromethane	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Bromoform	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Carbon Disulfide	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	0.0047 J	0.0047 J	ND(3.7)
Chlorobenzene	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Chloroform	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Chloromethane	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	2.5 J
cis-1,3-Dichloropropene	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Ethylbenzene	mg/kg	ND(0.010)	ND(0.013)	0.0036 J	14 J (IDWP)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	5.4 (IDWP)	ND(0.0054)	0.0028 J	0.015	29 J (IDWP)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	ND(0.013)	0.0072 J	ND(1.0)	0.0043 J	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Styrene	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Tetrachloroethene	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Toluene	mg/kg	ND(0.010)	ND(0.013)	0.0091 J	6.4 J	0.012 J	ND(0.0056)	0.030	ND(3.5)	0.095	0.031	0.0055 J	2.9 J
trans-1,3-Dichloropropene	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Trichloroethene	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Total 1,3-Dichloropropenes	mg/kg	NA	ND(0.013)	ND(0.0058)	ND(1.0)	ND(0.0055)	ND(0.0056)	ND(0.0057)	ND(3.5)	ND(0.0054)	ND(0.0057)	ND(0.0059)	ND(3.7)
Total Xylenes	mg/kg	ND(0.010)	0.0078 J	ND(0.0058)	39 J (IDWP)	ND(0.0055 J)	ND(0.0056)	ND(0.0057)	29 (IDWP)	0.0027 J	0.010	0.090	45 J (IDWP)

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 BBL-SB4 0 - 2 05/07/96	UST 7 BBL-SB4 8 - 10 05/07/96	UST 7 BBL-SB5 0 - 2 05/06/96	UST 7 BBL-SB5 20 - 22 05/06/96	UST 7 SB-351 0 - 2 06/27/95	UST 7 T07-B036 7 - 9 09/05/90	UST 7 T07-B036 11 - 13 09/05/90	UST 7 T07-B036 13 - 15 09/05/90	UST 7 T07-B037 7 - 9 09/05/90	UST 7 T07-B037 13 - 15 09/05/90	UST 7 T07-B038 3 - 5 09/05/90
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	R	R	R	R	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	ND(0.0056)	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	ND(34)	ND(16)	ND(0.060)	ND(0.061)	ND(0.056)	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	ND(34)	ND(16)	ND(0.060)	ND(0.061)	ND(0.056)	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	ND(34)	ND(16)	ND(0.060)	ND(0.061)	ND(0.056)	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	ND(34)	ND(16)	ND(0.060)	0.011 J	0.0050 J	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	2.7 J (IDWP)	3.0 (IDWP)	ND(0.0060)	ND(0.0061)	ND(0.0056)	73 (IDWP,ISVIA,ISVIA)	ND(0.010)	ND(0.010)	11 (IDWP,ISVIA)	ND(0.010)	0.050
Bromodichloromethane	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	0.0038 J	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	0.0075	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	0.0011 J	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	28 (IDWP)	23 (IDWP)	ND(0.0060)	ND(0.0061)	ND(0.0056)	99 (IDWP)	ND(0.010)	ND(0.010)	20 (IDWP)	ND(0.010)	0.065
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	0.0012 J	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	0.010	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	3.8	4.3	ND(0.0060)	0.0024 J	0.018	13	ND(0.010)	ND(0.010)	31 (IDWP)	ND(0.010)	0.050
trans-1,3-Dichloropropene	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	0.055	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	ND(3.4)	ND(1.6)	ND(0.0060)	ND(0.0061)	ND(0.0056)	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	120 (IDWP)	90 (IDWP)	ND(0.0060)	ND(0.0061)	0.0018 J	320 (GCCP,IDC,IDWP,ISVIA)	ND(0.010)	ND(0.010)	99 (IDWP)	0.025	0.25

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 T07-B038 7 - 9 09/05/90	UST 7 T07-B039 3 - 5 09/05/90	UST 7 T07-B039 7 - 9 09/05/90	UST 7 T07-B040 9 - 11 09/05/90	UST 7 T07-B041 5 - 7 09/05/90	UST 7 T07-B041 7 - 9 09/05/90	UST 7 T07-B055 7 - 9 09/11/90	UST 7 T07-B055 13 - 15 09/11/90	UST 7 T07-B056 5 - 7 09/11/90	UST 7 T07-B056 7 - 9 09/11/90	UST 7 T07-B056 13 - 15 09/11/90	UST 7 T07-B062 8 - 10 10/04/90	UST 7 T07-B063 8 - 10 10/04/90
Volatile Organics														
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	3.5 (IDWP)	0.015	0.040	21 (IDWP,ISVIA)	0.13 (IDWP)	9.2 (IDWP,ISVIA)	ND(0.010)	ND(0.010)	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	5.7 (IDWP)	0.025	0.012	20 (IDWP)	ND(0.010)	16 (IDWP)	NA	ND(0.010)	ND(0.010)	ND(0.010)	NA	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	6.9	0.015	0.017	3.7	ND(0.010)	13	NA	NA	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	25 (IDWP)	0.14	0.12	75 (IDWP)	0.025	42 (IDWP)	0.030	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)	ND(0.010)

See Notes in Table 15.

Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		UST 7	UST 7	UST 7	UST 7	UST 7	UST 7	UST 7	UST 7	UST 7	UST 7	UST 7
Location ID:		T07-B063	T07-B108	T07-B109	T07-B109	T07-B110	T07-B110	T07-B111	T07-B111	T07-B112	T07-B112	UST7-MW1
Sample Depth (ft BGS):		10 - 12	1 - 3	9 - 11	13 - 15	5 - 7	13 - 15	9 - 11	13 - 15	9 - 11	13 - 15	4 - 6
Date Collected:	Units	10/04/90	07/13/92	07/13/92	07/13/92	07/13/92	07/13/92	07/13/92	07/13/92	07/13/92	07/13/92	06/03/94
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	0.068	0.16 (IDWP)	ND(0.010)	ND(0.010)	16 (IDWP, SVIA)	0.032	ND(0.050)	0.98 (IDWP)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.010)	ND(0.010)	0.60	0.52	ND(0.010)	ND(0.010)	12 (IDWP)	0.18	0.53	4.5 (IDWP)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.050)	0.016	ND(0.010)	7.3	0.10	0.10	1.9	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	ND(0.010)	ND(0.010)	0.12	0.37	0.039	ND(0.010)	64 (IDWP)	1.0	2.0	24 (IDWP)	ND(0.030)

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 UST7-MW2 5 - 7 06/03/94	UST 7 UST7-MW3 6 - 8 07/07/94	UST 7 UST7-MW4 2 - 4 07/07/94	UST 7 UST7-MW5 4 - 6 07/07/94	UST 7 UST7-MW6 2 - 4 07/07/94	UST 8 T08-B016 2 - 4 08/30/90	UST 8 T08-B016 8 - 10 08/30/90	UST 8 UST8-MW1 0 - 2 05/25/94	UST 8 UST8-MW1 2 - 4 05/25/94	UST 8 UST8-MW2 0 - 2 05/25/94	UST 8 UST8-MW3 1 - 3 05/31/94
Volatile Organics												
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	4.3 (IDWP)	ND(0.010)	ND(0.010)	0.12 (IDWP)	ND(0.010)	0.017	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	71 (IDWP)	ND(0.010)	ND(0.010)	0.88	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(2.5)	ND(0.010)	ND(0.010)	0.22	ND(0.010)	0.018	0.017	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	240 (GCCP, IDC, IDWP, ISVIA)	ND(0.030)	ND(0.030)	6.4 (IDWP)	ND(0.030)	0.017	0.018	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)

See Notes in Table 15.

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Table 5. Volatile Organic Compounds Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 8 UST8-SB1 2 - 3 04/01/94	UST 8 UST8-SB2 0 - 1.2 04/01/94	UST 8 UST8-SB3 0.7 - 1.1 04/01/94	UST 8 UST8-SB4 1.8 - 2.3 04/01/94	UST 8 UST8-SB5 4 - 6 05/31/94	UST 9 T09-B017 8 - 10 08/30/90	UST 9 T09-B018 6 - 8 08/30/90	UST 9 T09-B019 4 - 6 08/30/90	UST 9 T09-B101 5 - 7 07/09/92	UST 10 T10-B034 6 - 8 09/05/90	UST 10 T10-B034 8 - 10 09/05/90	UST 10 T10-B035 8 - 10 09/05/90	UST 10 T10-B035 10 - 12 09/05/90
Volatile Organics														
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.000010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.000010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/kg	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.000010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,3-Dichloropropenes	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	ND(0.030)	0.031	ND(0.030)	ND(0.030)	ND(0.000030)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.050	ND(0.010)	ND(0.010)	0.020

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI	Above Ground Storage Tank Area AST-B1 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B2 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B3 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B4 1 - 12 11/08/88
Semivolatile Organics											
1,3,5-Trimethylbenzene	mg/kg	94 {I,C}	94 {I,C}	1.8 {I}	36,000,000 {I}	94 {I,C}	19,000 {I}	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	9,100	73,000	110	10,000,000	{NLV}	{NLV}	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	200	3,300	9.4	1,300,000	{NLV}	{NLV}	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	960	1,800 {C,DD}	4.2	2,300,000	{NLV}	{NLV}	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	10,000	36,000	20	2,100,000	{NLV}	{NLV}	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	170	220	0.64	20,000	{NLV}	{NLV}	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	2,300	180,000	1,800	{ID}	{ID}	{ID}	ND(0.88)	ND(0.90)	ND(0.89)	ND(0.89)
2-Chlorophenol	mg/kg	1,900	4,500	2.6	{ID}	{ID}	{ID}	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	5,500	26,000	170	{ID}	{ID}	{ID}	NA	NA	NA	NA
2-Methylphenol	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
2-Nitrophenol	mg/kg	1,600	2,000	1.2	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	4.6	30	2 {M}	8,200	{NLV}	{NLV}	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	190	260	0.83 {M}	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	3,000	15,000	16	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
4-Chloroaniline	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
4-Methylphenol	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
4-Nitrophenol	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
Acenaphthene	mg/kg	970	130,000	880	6,200,000	350,000	97,000	NA	NA	NA	NA
Acenaphthylene	mg/kg	440	5,200	17	1,000,000	3,000	2,700	NA	NA	NA	NA
Anthracene	mg/kg	41	730,000	41	29,000,000	1,000,000 {D}	1,600,000	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	{NLL}	80 {Q}	{NLL}	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	{NLL}	8 {Q}	{NLL}	1,900 {Q}	{NLV}	{NLV}	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	{NLL}	80 {Q}	{NLL}	{ID}	{ID}	{ID}	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	{NLL}	800 {Q}	{NLL}	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
Biphenyl	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	110 {I}	58 {I}	0.17 {I}	12,000 {I}	44 {I}	13 {I}	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	{NLL}	10,000 {C}	{NLL}	890,000	{NLV}	{NLV}	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	310 {C}	310 {C}	310 {C}	21,000,000	{NLV}	{NLV}	NA	NA	NA	NA
Carbazole	mg/kg	820	2,400	39	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
Chrysene	mg/kg	{NLL}	8,000 {Q}	{NLL}	{ID}	{ID}	{ID}	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	{NLL}	8 {Q}	{NLL}	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
Dibenzofuran	mg/kg	{ID}	{ID}	{ID}	{ID}	{ID}	{ID}	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI	Above Ground Storage Tank Area AST-B1 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B2 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B3 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B4 1 - 12 11/08/88
Semivolatile Organics (Cont'd.)											
Diethylphthalate	mg/kg	740 {C}	740 {C}	320	1,500,000	{NLV}	{NLV}	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	760 {C}	760 {C}	760 {C}	1,500,000	{NLV}	{NLV}	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	140,000 {C}	20,000	140,000 {C}	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
Fluoranthene	mg/kg	730	130,000	730	4,100,000	1,000,000 {D}	890,000	NA	NA	NA	NA
Fluorene	mg/kg	890	87,000	890	4,100,000	1,000,000 {D}	150,000	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	8.2	37	1.8	8,500	220	56	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)
Indeno(1,2,3-cd)pyrene	mg/kg	{NLL}	80 {Q}	{NLL}	{ID}	{NLV}	{NLV}	NA	NA	NA	NA
Isophorone	mg/kg	2,400 {C}	2,400 {C}	62	8,200,000	{NLV}	{NLV}	NA	NA	NA	NA
Naphthalene	mg/kg	2,100	52,000	100	88,000	470	350	NA	NA	NA	NA
Pentachlorophenol	mg/kg	4.3	320	0.022	130,000	{NLV}	{NLV}	NA	NA	NA	NA
Phenanthrene	mg/kg	1,100	5,200	160	2,900	5,100	190	NA	NA	NA	NA
Phenol	mg/kg	12,000 {C}	12,000 {C,DD}	260	18,000,000	{NLV}	{NLV}	NA	NA	NA	NA
Pyrene	mg/kg	480	84,000	480	2,900,000	1,000,000 {D}	780,000	NA	NA	NA	NA
Total Methylphenols	mg/kg	16,000 {J}	36,000 {J}	20 {J}	2,900,000 {J}	{NLV}	{NLV}	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Above Ground	Above Ground	Above Ground	Background	Background	Background	Background	Background	Background	Background	
		Storage Tank Area AST-B5 1 - 12 11/08/88	Storage Tank Area AST-B6 1 - 13.5 11/08/88	Storage Tank Area AST-B7 1 - 12 11/08/88	BG-B09 10 - 12 08/29/90	BG-B20 4 - 6 08/30/90	BG-B20 8 - 10 08/30/90	BG-B20 12 - 14 08/30/90	BG-B21 2 - 4 08/31/90	BG-B21 8 - 10 08/31/90	BG-B21 10 - 12 08/31/90	
Semivolatile Organics												
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Chloronaphthalene	mg/kg	ND(0.98)	ND(0.90)	ND(0.92)	NA	NA	NA	NA	NA	NA	NA	
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Bromophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Chloro-3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Chlorophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acenaphthene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Acenaphthylene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Anthracene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Benzo(a)anthracene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Benzo(a)pyrene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chrysene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Dibenzo(a,h)anthracene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Above Ground Storage Tank Area AST-B5 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B6 1 - 13.5 11/08/88	Above Ground Storage Tank Area AST-B7 1 - 12 11/08/88	Background BG-B09 10 - 12 08/29/90	Background BG-B20 4 - 6 08/30/90	Background BG-B20 8 - 10 08/30/90	Background BG-B20 12 - 14 08/30/90	Background BG-B21 2 - 4 08/31/90	Background BG-B21 8 - 10 08/31/90	Background BG-B21 10 - 12 08/31/90
Semivolatile Organics (Cont'd.)											
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Fluorene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Hexachlorobenzene	mg/kg	ND(0.012)	ND(0.011)	ND(0.011)	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	NA	NA	NA	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Total Methylphenols	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Center Street Area MW-145WT 7 - 17 06/08/95	Center Street Area SB-319 14 - 16 06/13/95	Central Type III Landfill SB-312 8 - 10 06/06/95	LNAPL Assessment Area SB-01A 1 - 3 08/23/01	LNAPL Assessment Area SB-01A 5 - 7 08/23/01	LNAPL Assessment Area SB-02-SMI 1.2 - 3.2 08/23/01	LNAPL Assessment Area SB-02-SMI 9 - 11 08/23/01
Semivolatile Organics								
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2,4,6-Trichlorophenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2,4-Dichlorophenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2,4-Dimethylphenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2,4-Dinitrophenol	mg/kg	ND(1.1)	ND(130)	ND(0.99)	ND(0.70)	ND(0.71)	ND(0.76)	ND(0.78)
2,4-Dinitrotoluene	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2-Chloronaphthalene	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2-Chlorophenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2-Methylnaphthalene	mg/kg	0.030 J	ND(26)	0.39	0.057 J	0.15 J	ND(0.38)	ND(0.39)
2-Methylphenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
2-Nitrophenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
3,3'-Dichlorobenzidine	mg/kg	ND(0.44)	ND(52)	ND(0.41)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
4,6-Dinitro-2-methylphenol	mg/kg	ND(1.1)	ND(130)	ND(0.99)	ND(0.70)	ND(0.71)	ND(0.76)	ND(0.78)
4-Bromophenyl-phenylether	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
4-Chloro-3-Methylphenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
4-Chloroaniline	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
4-Chlorophenyl-phenylether	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
4-Methylphenol	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
4-Nitrophenol	mg/kg	ND(1.1)	ND(130)	ND(0.99)	ND(0.70)	ND(0.71)	ND(0.76)	ND(0.78)
Acenaphthene	mg/kg	0.12 J	ND(26)	0.038 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Acenaphthylene	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Anthracene	mg/kg	0.35	ND(26)	0.052 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Benzo(a)anthracene	mg/kg	0.60	ND(26)	0.060 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Benzo(a)pyrene	mg/kg	0.41	ND(26)	0.049 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Benzo(b)fluoranthene	mg/kg	0.59	ND(26)	0.080 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Benzo(g,h,i)perylene	mg/kg	0.12 J	ND(26)	0.038 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Benzo(k)fluoranthene	mg/kg	ND(0.22)	ND(26)	0.037 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Butylbenzylphthalate	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Carbazole	mg/kg	0.12 J	ND(26)	0.066 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Chrysene	mg/kg	0.72	ND(26)	0.085 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Dibenzo(a,h)anthracene	mg/kg	0.049 J	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Dibenzofuran	mg/kg	0.054 J	ND(26)	0.084 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Center Street Area MW-145WT 7 - 17 06/08/95	Center Street Area SB-319 14 - 16 06/13/95	Central Type III Landfill SB-312 8 - 10 06/06/95	LNAPL Assessment Area SB-01A 1 - 3 08/23/01	LNAPL Assessment Area SB-01A 5 - 7 08/23/01	LNAPL Assessment Area SB-02-SMI 1.2 - 3.2 08/23/01	LNAPL Assessment Area SB-02-SMI 9 - 11 08/23/01
Semivolatile Organics (Cont'd.)								
Diethylphthalate	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Di-n-Butylphthalate	mg/kg	2.8	ND(26)	1.0	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Di-n-Octylphthalate	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Fluoranthene	mg/kg	1.5	ND(26)	0.23	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Fluorene	mg/kg	0.13 J	ND(26)	0.074 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Hexachlorobenzene	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Indeno(1,2,3-cd)pyrene	mg/kg	0.13 J	ND(26)	0.023 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Isophorone	mg/kg	ND(0.22)	ND(26)	0.12 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Naphthalene	mg/kg	ND(0.22)	ND(26)	0.31	0.045 J	0.11 J	ND(0.38)	ND(0.39)
Pentachlorophenol	mg/kg	ND(1.1)	ND(130)	ND(0.99)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Phenanthrene	mg/kg	1.0	7.7 J	0.35	0.050 J	0.095 J	ND(0.38)	ND(0.39)
Phenol	mg/kg	ND(0.22)	ND(26)	0.051 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Pyrene	mg/kg	0.96	ND(26)	0.17 J	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)
Total Methylphenols	mg/kg	ND(0.22)	ND(26)	ND(0.20)	ND(0.35)	ND(0.35)	ND(0.38)	ND(0.39)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-03-SMI 0.7 - 2.7 08/23/01	LNAPL Assessment Area SB-03-SMI 4.7 - 6.7 08/23/01	LNAPL Assessment Area SB-04-SMI 8.3 - 10 08/23/01	LNAPL Assessment Area SB-325 8 - 10 06/14/95	LNAPL Assessment Area SB-362 0 - 2 09/28/95	LNAPL Assessment Area SB-362 4 - 6 09/28/95	LNAPL Assessment Area SB-362 8 - 10 09/28/95	
Semivolatile Organics									
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
2,4,6-Trichlorophenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
2,4-Dichlorophenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
2,4-Dimethylphenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
2,4-Dinitrophenol	mg/kg	ND(0.72) [ND(0.72)]	ND(0.76)	ND(0.87)	ND(79)	ND(3.8 J)	ND(3.5)	ND(1.0)	
2,4-Dinitrotoluene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
2-Chloronaphthalene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
2-Chlorophenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
2-Methylnaphthalene	mg/kg	0.13 J [0.15 J]	0.091 J	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	0.10 J	
2-Methylphenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
2-Nitrophenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
3,3'-Dichlorobenzidine	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(32)	R	ND(1.4)	ND(0.41)	
4,6-Dinitro-2-methylphenol	mg/kg	ND(0.72) [ND(0.72)]	ND(0.76)	ND(0.87)	ND(79)	ND(3.8 J)	ND(3.5)	ND(1.0)	
4-Bromophenyl-phenylether	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
4-Chloro-3-Methylphenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
4-Chloroaniline	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
4-Chlorophenyl-phenylether	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
4-Methylphenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
4-Nitrophenol	mg/kg	ND(0.72) [ND(0.72)]	ND(0.76)	ND(0.87)	ND(79)	ND(3.8 J)	ND(3.5)	ND(1.0)	
Acenaphthene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
Acenaphthylene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
Anthracene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
Benzo(a)anthracene	mg/kg	ND(0.36) [ND(0.36)]	0.086 J	ND(0.44)	ND(16)	ND(0.77 J)	0.18 J	ND(0.21)	
Benzo(a)pyrene	mg/kg	ND(0.36) [ND(0.36)]	0.072 J	ND(0.44)	ND(16)	ND(0.77 J)	0.17 J	ND(0.21)	
Benzo(b)fluoranthene	mg/kg	ND(0.36) [ND(0.36)]	0.086 J	ND(0.44)	ND(16)	ND(0.77 J)	0.22 J	ND(0.21)	
Benzo(g,h,i)perylene	mg/kg	ND(0.36) [ND(0.36)]	0.066 J	ND(0.44)	ND(16)	ND(0.77 J)	0.13 J	ND(0.21)	
Benzo(k)fluoranthene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	0.11 J	ND(0.21)	
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	
bis(2-Chloroethyl)ether	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	R	ND(0.72)	ND(0.21)	
Butylbenzylphthalate	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	R	ND(0.72)	ND(0.21)	
Carbazole	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	
Chrysene	mg/kg	0.062 J [0.072 J]	0.16 J	ND(0.44)	ND(16)	R	0.27 J	ND(0.21)	
Dibenzo(a,h)anthracene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)	
Dibenzofuran	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)	

See Notes in Table 15.

Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-03-SMI 0.7 - 2.7 08/23/01	LNAPL Assessment Area SB-03-SMI 4.7 - 6.7 08/23/01	LNAPL Assessment Area SB-04-SMI 8.3 - 10 08/23/01	LNAPL Assessment Area SB-325 8 - 10 06/14/95	LNAPL Assessment Area SB-362 0 - 2 09/28/95	LNAPL Assessment Area SB-362 4 - 6 09/28/95	LNAPL Assessment Area SB-362 8 - 10 09/28/95
Semivolatile Organics (Cont'd.)								
Diethylphthalate	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)
Di-n-Butylphthalate	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)
Di-n-Octylphthalate	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)
Fluoranthene	mg/kg	0.072 J [0.085 J]	0.18 J	ND(0.44)	ND(16)	ND(0.77)	0.42 J	0.027 J
Fluorene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)
Hexachlorobenzene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	0.098 J	ND(0.21)
Isophorone	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)
Naphthalene	mg/kg	0.067 J [0.082 J]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	0.39 J	0.39
Pentachlorophenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(79)	ND(3.8 J)	ND(3.5)	ND(1.0)
Phenanthrene	mg/kg	0.10 J [0.13 J]	0.32 J	ND(0.44)	ND(16)	ND(0.77)	0.26 J	0.031 J
Phenol	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77 J)	ND(0.72)	ND(0.21)
Pyrene	mg/kg	0.069 J [0.073 J]	0.20 J	ND(0.44)	ND(16)	R	0.33 J	ND(0.21)
Total Methylphenols	mg/kg	ND(0.36) [ND(0.36)]	ND(0.38)	ND(0.44)	ND(16)	ND(0.77)	ND(0.72)	ND(0.21)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-363 0 - 2 09/28/95	LNAPL Assessment Area SB-363 4 - 6 09/28/95	LNAPL Assessment Area SB-363 8 - 10 09/28/95	LNAPL Assessment Area US-1 0 - 1 06/12/95	LNAPL Assessment Area US-2 0 - 1 06/12/95	LNAPL Assessment Area US-3 0 - 1 06/12/95	LNAPL Assessment Area US-4 0 - 1 06/12/95
Semivolatile Organics								
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)
2,4,6-Trichlorophenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)
2,4-Dichlorophenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	ND(0.44)	R	ND(0.17)
2,4-Dimethylphenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)
2,4-Dinitrophenol	mg/kg	ND(8.9)	ND(8.8)	ND(9.8)	R	R	R	ND(0.84)
2,4-Dinitrotoluene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
2-Chloronaphthalene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
2-Chlorophenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)
2-Methylnaphthalene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.12 J	0.082 J	0.16 J	0.10 J
2-Methylphenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)
2-Nitrophenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)
3,3'-Dichlorobenzidine	mg/kg	ND(3.7)	ND(3.6)	ND(4.0)	ND(1.7)	ND(0.89)	ND(0.35)	ND(0.35)
4,6-Dinitro-2-methylphenol	mg/kg	ND(8.9)	ND(8.8)	ND(9.8)	R	R	R	ND(0.84 J)
4-Bromophenyl-phenylether	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
4-Chloro-3-Methylphenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)
4-Chloroaniline	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
4-Chlorophenyl-phenylether	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
4-Methylphenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	R	R	ND(0.17)
4-Nitrophenol	mg/kg	ND(8.9)	ND(8.8)	ND(9.8)	R	R	R	ND(0.84 J)
Acenaphthene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.13 J	ND(0.44)	0.078 J	ND(0.17)
Acenaphthylene	mg/kg	ND(1.8)	ND(1.8)	0.33 J	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
Anthracene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.11 J	0.045 J	0.14 J	ND(0.17)
Benzo(a)anthracene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.40 J	0.22 J	0.24	ND(0.17)
Benzo(a)pyrene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44 J)	0.17 J	ND(0.17 J)
Benzo(b)fluoranthene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.56 J	ND(0.44 J)	0.33	ND(0.17 J)
Benzo(g,h,i)perylene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83 J)	ND(0.44 J)	0.094 J	ND(0.17 J)
Benzo(k)fluoranthene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44 J)	ND(0.17)	ND(0.17 J)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	0.10 J	ND(0.17)
Butylbenzylphthalate	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
Carbazole	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	0.076 J	ND(0.17)
Chrysene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.44 J	0.27 J	0.23	ND(0.17)
Dibenzo(a,h)anthracene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44 J)	ND(0.17)	ND(0.17 J)
Dibenzofuran	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.15 J	ND(0.44)	0.096 J	0.019 J

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-363 0 - 2 09/28/95	LNAPL Assessment Area SB-363 4 - 6 09/28/95	LNAPL Assessment Area SB-363 8 - 10 09/28/95	LNAPL Assessment Area US-1 0 - 1 06/12/95	LNAPL Assessment Area US-2 0 - 1 06/12/95	LNAPL Assessment Area US-3 0 - 1 06/12/95	LNAPL Assessment Area US-4 0 - 1 06/12/95
Semivolatile Organics (Cont'd.)								
Diethylphthalate	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
Di-n-Butylphthalate	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
Di-n-Octylphthalate	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44 J)	ND(0.17)	ND(0.17 J)
Fluoranthene	mg/kg	0.51 J	ND(1.8)	ND(2.0)	1.1	0.40 J	0.58	0.065 J
Fluorene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	0.18 J	ND(0.44)	0.097 J	ND(0.17)
Hexachlorobenzene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44 J)	0.074 J	ND(0.17 J)
Isophorone	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	ND(0.83)	ND(0.44)	ND(0.17)	ND(0.17)
Naphthalene	mg/kg	ND(1.8)	ND(1.8)	0.40 J	ND(0.83)	ND(0.44)	0.11 J	0.075 J
Pentachlorophenol	mg/kg	ND(8.9)	ND(8.8)	ND(9.8)	R	R	R	ND(0.84)
Phenanthrene	mg/kg	0.57 J	0.51 J	0.68 J	1.2	0.25 J	0.69	0.076 J
Phenol	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	0.078 J
Pyrene	mg/kg	0.44 J	0.55 J	ND(2.0)	1.1	0.50	0.56	0.084 J
Total Methylphenols	mg/kg	ND(1.8)	ND(1.8)	ND(2.0)	R	R	R	ND(0.17)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area US-6 0 - 1 06/12/95	LNAPL Assessment Area US-7 0 - 1 06/12/95	LNAPL Assessment Area US-8 0 - 1 06/12/95	Parking Lot Area/ Buffer Basin BH9 0 - 2 03/06/07	Parking Lot Area/ Buffer Basin BH9 2 - 4 03/06/07	Parking Lot Area/ Buffer Basin BH10 0 - 2 03/06/07	Parking Lot Area/ Buffer Basin BH10 2 - 4 03/06/07
Semivolatile Organics								
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2,4,6-Trichlorophenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2,4-Dichlorophenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2,4-Dimethylphenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2,4-Dinitrophenol	mg/kg	ND(1.7)	ND(0.82)	ND(0.81 J)	ND(3.2)	ND(0.17)	ND(0.17)	ND(0.16)
2,4-Dinitrotoluene	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2-Chloronaphthalene	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2-Chlorophenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2-Methylnaphthalene	mg/kg	0.26 J	0.16 J	0.48	0.40 J	0.23 J	0.046 J	0.23 J
2-Methylphenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
2-Nitrophenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
3,3'-Dichlorobenzidine	mg/kg	ND(0.68 J)	ND(0.34)	ND(0.33)	ND(34)	ND(1.9)	ND(1.8)	ND(1.7)
4,6-Dinitro-2-methylphenol	mg/kg	ND(1.7)	ND(0.82)	ND(0.81)	ND(3.2)	ND(0.17)	ND(0.17)	ND(0.16)
4-Bromophenyl-phenylether	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
4-Chloro-3-Methylphenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
4-Chloroaniline	mg/kg	0.048 J	ND(0.17)	ND(0.17)	ND(3.2)	ND(0.17)	ND(0.17)	ND(0.16)
4-Chlorophenyl-phenylether	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
4-Methylphenol	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
4-Nitrophenol	mg/kg	ND(1.7 J)	ND(0.82 J)	ND(0.81 J)	ND(7.0)	ND(0.38)	ND(0.37)	ND(0.35)
Acenaphthene	mg/kg	ND(0.34)	ND(0.17)	0.020 J	3.3 J	0.021 J	ND(0.30)	0.012 J
Acenaphthylene	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	0.0089 J	ND(0.30)	ND(0.28)
Anthracene	mg/kg	0.23 J	ND(0.17)	0.019 J	8.5	0.046 J	0.0079 J	0.020 J
Benzo(a)anthracene	mg/kg	0.13 J	ND(0.17)	0.10 J	8.1	0.060 J	0.017 J	0.021 J
Benzo(a)pyrene	mg/kg	ND(0.34 J)	ND(0.17)	0.060 J	6.6	0.10 J	ND(0.30)	ND(0.28)
Benzo(b)fluoranthene	mg/kg	ND(0.34 J)	ND(0.17)	0.16 J	6.7	0.057 J	0.022 J	0.012 J
Benzo(g,h,i)perylene	mg/kg	ND(0.34 J)	ND(0.17 J)	0.039 J	2.6 J	ND(0.31)	ND(0.30)	ND(0.28)
Benzo(k)fluoranthene	mg/kg	ND(0.34 J)	ND(0.17)	0.047 J	2.8 J	0.028 J	0.011 J	ND(0.28)
Biphenyl	mg/kg	NA	NA	NA	ND(5.6)	0.062 J	ND(0.30)	ND(0.28)
bis(2-Chloroethyl)ether	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(1.7)	0.011 J	ND(0.089)	ND(0.084)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.34 J)	ND(0.17)	0.075 J	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Butylbenzylphthalate	mg/kg	ND(0.34 J)	ND(0.17)	0.027 J	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Carbazole	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	3.6 J	ND(0.31)	ND(0.30)	ND(0.28)
Chrysene	mg/kg	0.16 J	ND(0.17)	0.16 J	7.6	0.14 J	0.038 J	0.031 J
Dibenzo(a,h)anthracene	mg/kg	ND(0.34 J)	ND(0.17)	ND(0.17)	0.055 J	ND(0.31)	ND(0.30)	ND(0.28)
Dibenzofuran	mg/kg	0.055 J	0.035 J	0.10 J	2.4 J	0.069 J	ND(0.30)	0.022 J

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area US-6 0 - 1 06/12/95	LNAPL Assessment Area US-7 0 - 1 06/12/95	LNAPL Assessment Area US-8 0 - 1 06/12/95	Parking Lot Area/ Buffer Basin BH9 0 - 2 03/06/07	Parking Lot Area/ Buffer Basin BH9 2 - 4 03/06/07	Parking Lot Area/ Buffer Basin BH10 0 - 2 03/06/07	Parking Lot Area/ Buffer Basin BH10 2 - 4 03/06/07
Semivolatile Organics (Cont'd.)								
Diethylphthalate	mg/kg	ND(0.34)	ND(0.17)	ND(0.17 J)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Di-n-Butylphthalate	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Di-n-Octylphthalate	mg/kg	ND(0.34 J)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Fluoranthene	mg/kg	0.18 J	0.050 J	0.23	21	0.14 J	0.038 J	0.082 J
Fluorene	mg/kg	ND(0.34)	ND(0.17)	0.017 J	4.0 J	0.037 J	ND(0.30)	0.024 J
Hexachlorobenzene	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.34 J)	ND(0.17)	0.028 J	2.9 J	ND(0.31)	ND(0.30)	ND(0.28)
Isophorone	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Naphthalene	mg/kg	0.19 J	0.11 J	0.35	ND(5.6)	0.17 J	0.035 J	0.17 J
Pentachlorophenol	mg/kg	ND(1.7)	ND(0.82)	ND(0.81 J)	ND(3.2)	ND(0.17)	ND(0.17)	ND(0.16)
Phenanthrene	mg/kg	0.22 J	0.098 J	0.27	23	0.32	0.072 J	0.13 J
Phenol	mg/kg	0.045 J	0.025 J	0.044 J	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)
Pyrene	mg/kg	0.31 J	0.078 J	0.25	17	0.15 J	0.033 J	0.056 J
Total Methylphenols	mg/kg	ND(0.34)	ND(0.17)	ND(0.17)	ND(5.6)	ND(0.31)	ND(0.30)	ND(0.28)

See Notes in Table 15.

Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin SB-336 0 - 2 06/23/95	Parking Lot Area/ Buffer Basin SB-337 4 - 6 06/23/95	Parking Lot Area/ Buffer Basin SB-338 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-338 6 - 8 06/26/95	Parking Lot Area/ Buffer Basin SB-339 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-340 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-341 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-342 2 - 4 06/26/95
Semivolatile Organics									
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
2,4,6-Trichlorophenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
2,4-Dichlorophenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
2,4-Dimethylphenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.34	ND(0.18)
2,4-Dinitrophenol	mg/kg	ND(1.7)	ND(0.85)	ND(0.88)	ND(1.9)	ND(0.85) [ND(0.84)]	ND(0.87)	ND(1.2)	ND(0.85)
2,4-Dinitrotoluene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
2-Chloronaphthalene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
2-Chlorophenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
2-Methylnaphthalene	mg/kg	0.15 J	0.28	0.068 J	0.97	0.12 J [ND(0.17)]	ND(0.18)	2.0	0.24
2-Methylphenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.21 J	ND(0.18)
2-Nitrophenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
3,3'-Dichlorobenzidine	mg/kg	ND(0.70)	ND(0.35)	ND(0.36)	ND(0.79)	ND(0.35) [ND(0.35)]	ND(0.36)	ND(0.48)	ND(0.35)
4,6-Dinitro-2-methylphenol	mg/kg	ND(1.7)	ND(0.85)	ND(0.88)	ND(1.9)	ND(0.85) [ND(0.84)]	ND(0.87)	ND(1.2)	ND(0.85)
4-Bromophenyl-phenylether	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
4-Chloro-3-Methylphenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
4-Chloroaniline	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
4-Chlorophenyl-phenylether	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
4-Methylphenol	mg/kg	ND(0.35)	0.042 J	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.16 J	ND(0.18)
4-Nitrophenol	mg/kg	ND(1.7)	ND(0.85)	ND(0.88)	ND(1.9)	ND(0.85) [ND(0.84)]	ND(0.87)	ND(1.2)	ND(0.85)
Acenaphthene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	0.092 J	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Acenaphthylene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Anthracene	mg/kg	ND(0.35)	0.030 J	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.11 J	ND(0.18)
Benzo(a)anthracene	mg/kg	ND(0.35)	0.030 J	ND(0.18)	0.22 J	ND(0.18) [ND(0.17)]	ND(0.18)	0.063 J	ND(0.18)
Benzo(a)pyrene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.055 J	ND(0.18)
Benzo(b)fluoranthene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Benzo(g,h,i)perylene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Benzo(k)fluoranthene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.35)	0.30	0.044 J	ND(0.40)	0.093 J [0.042 J]	0.067 J	0.17 J	ND(0.18)
Butylbenzylphthalate	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Carbazole	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Chrysene	mg/kg	ND(0.35)	0.058 J	ND(0.18)	0.45	ND(0.18) [ND(0.17)]	ND(0.18)	0.065 J	0.039 J
Dibenzo(a,h)anthracene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Dibenzofuran	mg/kg	ND(0.35)	0.049 J	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.35	ND(0.18)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin SB-336 0 - 2 06/23/95	Parking Lot Area/ Buffer Basin SB-337 4 - 6 06/23/95	Parking Lot Area/ Buffer Basin SB-338 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-338 6 - 8 06/26/95	Parking Lot Area/ Buffer Basin SB-339 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-340 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-341 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-342 2 - 4 06/26/95
Semivolatile Organics (Cont'd.)									
Diethylphthalate	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Di-n-Butylphthalate	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	0.042 J	0.27	0.21
Di-n-Octylphthalate	mg/kg	ND(0.35)	0.44	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Fluoranthene	mg/kg	ND(0.35)	0.071 J	ND(0.18)	0.13 J	0.036 J [ND(0.17)]	ND(0.18)	0.19 J	0.053 J
Fluorene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	0.28 J	0.039 J [ND(0.17)]	ND(0.18)	0.20 J	0.041 J
Hexachlorobenzene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	0.088 J	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Isophorone	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	ND(0.24)	ND(0.18)
Naphthalene	mg/kg	0.080 J	0.22	0.059 J	0.28 J	0.12 J [ND(0.17)]	ND(0.18)	1.5	0.17 J
Pentachlorophenol	mg/kg	ND(1.7)	ND(0.85)	ND(0.88)	ND(1.9)	ND(0.85) [ND(0.84)]	ND(0.87)	ND(1.2)	ND(0.85)
Phenanthrene	mg/kg	0.10 J	0.21	0.092 J	1.7	0.20 [0.037 J]	ND(0.18)	0.89	0.18
Phenol	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.12 J	ND(0.18)
Pyrene	mg/kg	ND(0.35)	0.087 J	ND(0.18)	0.38 J	0.039 J [ND(0.17)]	ND(0.18)	0.14 J	0.059 J
Total Methylphenols	mg/kg	ND(0.35)	ND(0.18)	ND(0.18)	ND(0.40)	ND(0.18) [ND(0.17)]	ND(0.18)	0.21 J	ND(0.18)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin SB-342 4 - 6 06/26/95	Parking Lot Area/ Buffer Basin SB-343 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-344 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-345 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-346 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-347 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-348 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-349 2 - 4 06/27/95
Semivolatile Organics									
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
2,4,6-Trichlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
2,4-Dichlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
2,4-Dimethylphenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	0.085 J
2,4-Dinitrophenol	mg/kg	ND(0.87)	ND(0.85)	ND(0.97)	ND(0.87)	ND(0.86)	ND(0.85)	ND(0.91)	ND(0.94)
2,4-Dinitrotoluene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
2-Chloronaphthalene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
2-Chlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
2-Methylnaphthalene	mg/kg	0.59	0.041 J	ND(0.20)	0.51	0.054 J	0.26	0.16 J	0.42
2-Methylphenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	0.057 J
2-Nitrophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
3,3'-Dichlorobenzidine	mg/kg	ND(0.36)	ND(0.35)	ND(0.40)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.38)	ND(0.39)
4,6-Dinitro-2-methylphenol	mg/kg	ND(0.87)	ND(0.85)	ND(0.97)	ND(0.87)	ND(0.86)	ND(0.85)	ND(0.91)	ND(0.94)
4-Bromophenyl-phenylether	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
4-Chloro-3-Methylphenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
4-Chloroaniline	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
4-Chlorophenyl-phenylether	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
4-Methylphenol	mg/kg	0.052 J	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
4-Nitrophenol	mg/kg	ND(0.87)	ND(0.85)	ND(0.97)	ND(0.87)	ND(0.86)	ND(0.85)	ND(0.91)	ND(0.94)
Acenaphthene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	0.049 J	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Acenaphthylene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Anthracene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	0.058 J	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Benzo(a)anthracene	mg/kg	0.049 J	ND(0.18)	ND(0.20)	0.21	0.11 J	0.11 J	ND(0.19)	0.041 J
Benzo(a)pyrene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	0.047 J	0.079 J	ND(0.18)	ND(0.19)	ND(0.19)
Benzo(b)fluoranthene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	0.18	0.12 J	0.057 J	ND(0.19)	ND(0.19)
Benzo(g,h,i)perylene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	0.040 J	0.074 J	ND(0.18)	ND(0.19)	ND(0.19)
Benzo(k)fluoranthene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	0.067 J	ND(0.18)	ND(0.19)	ND(0.19)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.18)	0.098 J	0.081 J	ND(0.18)	0.078 J	ND(0.18)	0.095 J	ND(0.19)
Butylbenzylphthalate	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Carbazole	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Chrysene	mg/kg	0.040 J	ND(0.18)	ND(0.20)	0.080 J	0.12 J	0.096 J	ND(0.19)	ND(0.19)
Dibenzo(a,h)anthracene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Dibenzofuran	mg/kg	0.056 J	ND(0.18)	ND(0.20)	0.049 J	ND(0.18)	ND(0.18)	ND(0.19)	0.063 J

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin SB-342 4 - 6 06/26/95	Parking Lot Area/ Buffer Basin SB-343 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-344 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-345 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-346 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-347 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-348 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-349 2 - 4 06/27/95
Semivolatile Organics (Cont'd.)									
Diethylphthalate	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Di-n-Butylphthalate	mg/kg	0.10 J	0.81	0.22	1.6	0.77	2.4	2.4	3.2
Di-n-Octylphthalate	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Fluoranthene	mg/kg	0.10 J	ND(0.18)	ND(0.20)	0.20	0.25	0.073 J	ND(0.19)	0.047 J
Fluorene	mg/kg	0.11 J	ND(0.18)	ND(0.20)	0.074 J	ND(0.18)	ND(0.18)	ND(0.19)	0.073 J
Hexachlorobenzene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	0.072 J	0.065 J	ND(0.18)	ND(0.19)	ND(0.19)
Isophorone	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Naphthalene	mg/kg	0.57	ND(0.18)	ND(0.20)	0.22	0.038 J	0.12 J	0.088 J	0.26
Pentachlorophenol	mg/kg	ND(0.87)	ND(0.85)	ND(0.97)	ND(0.87)	ND(0.86)	ND(0.85)	ND(0.91)	ND(0.94)
Phenanthrene	mg/kg	0.46	0.043 J	0.055 J	0.40	ND(0.18)	0.14 J	0.099 J	0.23
Phenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.19)
Pyrene	mg/kg	0.12 J	ND(0.18)	ND(0.20)	0.29	0.21	0.080 J	ND(0.19)	ND(0.19)
Total Methylphenols	mg/kg	ND(0.18)	ND(0.18)	ND(0.20)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.19)	0.057 J

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin SB-354 0 - 2 06/28/95	Parking Lots East of Plant (CTC) PL-1 0.75 - 1.21 08/10/01	Parking Lots East of Plant (CTC) PL-2 0.75 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-3 0.67 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-4 0.75 - 1.5 08/10/01	Parking Lots East of Plant (CTC) VE-1 0.75 - 1.58 08/10/01	Parking Lots East of Plant (CTC) VE-2 0.92 - 1.67 08/10/01	Previous Metal Feedstock FS-1 0 - 1 06/12/95
Semivolatile Organics									
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2,4,6-Trichlorophenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2,4-Dichlorophenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2,4-Dimethylphenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2,4-Dinitrophenol	mg/kg	ND(0.86)	ND(0.84)	ND(0.72) [ND(0.82)]	ND(0.74)	ND(0.71)	ND(0.80)	ND(0.74)	ND(3.4)
2,4-Dinitrotoluene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2-Chloronaphthalene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2-Chlorophenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2-Methylnaphthalene	mg/kg	0.039 J	ND(0.42)	0.056 J [ND(0.41)]	ND(0.37)	0.24 J	ND(0.40)	0.054 J	0.26 J
2-Methylphenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
2-Nitrophenol	mg/kg	ND(0.18)	R	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
3,3'-Dichlorobenzidine	mg/kg	ND(0.35)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(1.4)
4,6-Dinitro-2-methylphenol	mg/kg	ND(0.86)	ND(0.84)	ND(0.72) [ND(0.82)]	ND(0.74)	ND(0.71)	ND(0.80)	ND(0.74)	ND(3.4)
4-Bromophenyl-phenylether	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
4-Chloro-3-Methylphenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
4-Chloroaniline	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
4-Chlorophenyl-phenylether	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
4-Methylphenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
4-Nitrophenol	mg/kg	ND(0.86)	ND(0.42)	R [R]	R	R	R	R	ND(3.4 J)
Acenaphthene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Acenaphthylene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Anthracene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Benzo(a)anthracene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [0.070 J]	ND(0.37)	0.044 J	ND(0.40)	0.13 J	ND(0.71)
Benzo(a)pyrene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [0.074 J]	ND(0.37)	ND(0.36)	ND(0.40)	0.15 J	0.17 J
Benzo(b)fluoranthene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [0.078 J]	ND(0.37)	0.046 J	ND(0.40)	0.16 J	0.47 J
Benzo(g,h,i)perylene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [0.045 J]	ND(0.37)	ND(0.36)	ND(0.40)	0.14 J	ND(0.71 J)
Benzo(k)fluoranthene	mg/kg	ND(0.18)	ND(0.42)	0.042 J [0.044 J]	ND(0.37)	ND(0.36)	ND(0.40)	0.13 J	ND(0.71 J)
Biphenyl	mg/kg	NA	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
bis(2-Ethylhexyl)phthalate	mg/kg	0.089 J	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Butylbenzylphthalate	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Carbazole	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Chrysene	mg/kg	0.046 J	ND(0.42)	0.058 J [0.093 J]	ND(0.37)	0.11 J	ND(0.40)	0.17 J	0.26 J
Dibenzo(a,h)anthracene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71 J)
Dibenzofuran	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	0.043 J	ND(0.40)	ND(0.37)	ND(0.71)

See Notes in Table 15.

Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin SB-354 0 - 2 06/28/95	Parking Lots East of Plant (CTC) PL-1 0.75 - 1.21 08/10/01	Parking Lots East of Plant (CTC) PL-2 0.75 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-3 0.67 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-4 0.75 - 1.5 08/10/01	Parking Lots East of Plant (CTC) VE-1 0.75 - 1.58 08/10/01	Parking Lots East of Plant (CTC) VE-2 0.92 - 1.67 08/10/01	Previous Metal Feedstock FS-1 0 - 1 06/12/95
Semivolatile Organics (Cont'd.)									
Diethylphthalate	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Di-n-Butylphthalate	mg/kg	2.7	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Di-n-Octylphthalate	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71 J)
Fluoranthene	mg/kg	ND(0.18)	ND(0.42)	0.060 J [0.18 J]	ND(0.37)	ND(0.36)	ND(0.40)	0.21 J	0.21 J
Fluorene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	0.099 J	ND(0.40)	ND(0.37)	ND(0.71)
Hexachlorobenzene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	0.11 J	ND(0.71 J)
Isophorone	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	0.39 J
Naphthalene	mg/kg	0.039 J	ND(0.42)	0.055 J [ND(0.41)]	ND(0.37)	0.15 J	0.049 J	0.037 J	0.20 J
Pentachlorophenol	mg/kg	ND(0.86)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(3.4)
Phenanthrene	mg/kg	0.050 J	ND(0.42)	0.11 J [0.14 J]	ND(0.37)	0.28 J	ND(0.40)	0.11 J	0.17 J
Phenol	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	0.14 J
Pyrene	mg/kg	ND(0.18)	ND(0.42)	0.054 J [0.13 J]	ND(0.37)	0.12 J	ND(0.40)	0.18 J	0.55 J
Total Methylphenols	mg/kg	ND(0.18)	ND(0.42)	ND(0.36) [ND(0.41)]	ND(0.37)	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.71)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock FS-2 0 - 1 06/12/95	Previous Metal Feedstock FS-3 0 - 1 06/12/95	Previous Metal Feedstock FS-4 0 - 1 06/12/95	Previous Metal Feedstock FS-5 0 - 1 06/12/95	Previous Metal Feedstock FS-6 0 - 1 06/12/95	Previous Metal Feedstock FS-7 0 - 1 06/12/95	Previous Metal Feedstock FS-8 0 - 1 06/12/95	Previous Metal Feedstock SB-304 0 - 1 02/08/95	Previous Metal Feedstock SB-304 2 - 4 02/08/95
Semivolatile Organics										
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2,4,6-Trichlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2,4-Dichlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2,4-Dimethylphenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2,4-Dinitrophenol	mg/kg	ND(0.87)	ND(0.90)	ND(0.89 J)	ND(0.86)	ND(0.82) [ND(0.82)]	ND(0.86)	ND(0.84)	ND(0.86)	ND(0.85)
2,4-Dinitrotoluene	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2-Chloronaphthalene	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2-Chlorophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2-Methylnaphthalene	mg/kg	0.14 J	0.24	0.30	0.13 J	0.11 J [0.20]	0.24	0.22	0.070 J	ND(0.18)
2-Methylphenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
2-Nitrophenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
3,3'-Dichlorobenzidine	mg/kg	ND(0.36)	ND(0.37)	ND(0.37)	ND(0.36)	ND(0.34) [ND(0.34)]	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.35)
4,6-Dinitro-2-methylphenol	mg/kg	ND(0.87)	ND(0.90)	ND(0.89)	ND(0.86)	ND(0.82) [ND(0.82)]	ND(0.86)	ND(0.84)	ND(0.86)	ND(0.85)
4-Bromophenyl-phenylether	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
4-Chloro-3-Methylphenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
4-Chloroaniline	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	0.053 J	ND(0.17)	ND(0.18)	ND(0.35)
4-Chlorophenyl-phenylether	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
4-Methylphenol	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
4-Nitrophenol	mg/kg	ND(0.87)	ND(0.90 J)	ND(0.89 J)	ND(0.86)	ND(0.82) [ND(0.82)]	ND(0.86)	ND(0.84)	ND(0.86)	ND(0.85)
Acenaphthene	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
Acenaphthylene	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
Anthracene	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	0.11 J	ND(0.17)	ND(0.18)	ND(0.18)
Benzo(a)anthracene	mg/kg	ND(0.18)	0.033 J	0.028 J	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.040 J	0.053 J
Benzo(a)pyrene	mg/kg	ND(0.18)	ND(0.18 J)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.032 J	0.055 J
Benzo(b)fluoranthene	mg/kg	ND(0.18)	ND(0.18 J)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.056 J	0.088 J
Benzo(g,h,i)perylene	mg/kg	ND(0.18)	ND(0.18 J)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.022 J	0.031 J
Benzo(k)fluoranthene	mg/kg	ND(0.18)	ND(0.18 J)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.020 J	ND(0.18)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.18)	0.48	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	4.3
Butylbenzylphthalate	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
Carbazole	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
Chrysene	mg/kg	ND(0.18)	0.061 J	0.039 J	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.064 J	0.077 J
Dibenzo(a,h)anthracene	mg/kg	ND(0.18)	ND(0.18 J)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18 J)	ND(0.18 J)
Dibenzofuran	mg/kg	ND(0.18)	0.044 J	0.046 J	ND(0.18)	ND(0.17) [0.046 J]	0.047 J	0.040 J	0.019 J	ND(0.18)

See Notes in Table 15.

Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock FS-2 0 - 1 06/12/95	Previous Metal Feedstock FS-3 0 - 1 06/12/95	Previous Metal Feedstock FS-4 0 - 1 06/12/95	Previous Metal Feedstock FS-5 0 - 1 06/12/95	Previous Metal Feedstock FS-6 0 - 1 06/12/95	Previous Metal Feedstock FS-7 0 - 1 06/12/95	Previous Metal Feedstock FS-8 0 - 1 06/12/95	Previous Metal Feedstock SB-304 0 - 1 02/08/95	Previous Metal Feedstock SB-304 2 - 4 02/08/95
Semivolatile Organics (Cont'd.)										
Diethylphthalate	mg/kg	ND(0.18)	ND(0.18)	ND(0.18 J)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
Di-n-Butylphthalate	mg/kg	0.020 J	0.23	0.16 J	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	0.021 J	ND(0.18)	ND(0.18)
Di-n-Octylphthalate	mg/kg	ND(0.18)	ND(0.18 J)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
Fluoranthene	mg/kg	ND(0.18)	0.067 J	0.040 J	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.074 J	0.095 J
Fluorene	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)
Hexachlorobenzene	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	0.11 J
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.18)	ND(0.18 J)	ND(0.18 J)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.021 J	0.028 J
Isophorone	mg/kg	0.65	0.68	0.093 J	ND(0.18)	ND(0.17) [ND(0.17)]	0.25	0.96	ND(0.18)	ND(0.18)
Naphthalene	mg/kg	0.093 J	0.15 J	0.17 J	0.097 J	0.086 J [0.14 J]	0.17 J	0.16 J	0.048 J	ND(0.18)
Pentachlorophenol	mg/kg	ND(0.87)	ND(0.90)	ND(0.89 J)	ND(0.86)	ND(0.82) [ND(0.82)]	ND(0.86)	ND(0.84)	ND(0.86)	ND(0.85)
Phenanthrene	mg/kg	0.087 J	0.13 J	0.11 J	0.061 J	0.060 J [0.11 J]	0.10 J	0.11 J	0.092 J	0.056 J
Phenol	mg/kg	0.060 J	0.12 J	0.18 J	ND(0.18)	ND(0.17) [ND(0.17)]	0.024 J	0.072 J	ND(0.18)	ND(0.18)
Pyrene	mg/kg	ND(0.18)	0.088 J	0.047 J	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	0.057 J	0.072 J
Total Methylphenols	mg/kg	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.18)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock SB-304 6 - 8 02/08/95	Previous Metal Feedstock SB-305 0 - 1 02/08/95	Previous Metal Feedstock SB-305 2 - 4 02/08/95	Previous Metal Feedstock SB-305 6 - 8 02/08/95	Previous Metal Feedstock SB-305 10 - 12 02/08/95	Previous Metal Feedstock SB-352 0 - 2 06/28/95	Primary Settling Pond BH7 0 - 2 03/06/07	Primary Settling Pond BH7 2 - 4 03/06/07
Semivolatile Organics									
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	R	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
2,4,6-Trichlorophenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
2,4-Dichlorophenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
2,4-Dimethylphenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	0.11 J
2,4-Dinitrophenol	mg/kg	ND(1.0)	ND(0.90)	ND(0.86)	ND(0.89)	ND(1.1)	ND(0.90)	ND(0.17)	ND(0.20)
2,4-Dinitrotoluene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
2-Chloronaphthalene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
2-Chlorophenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
2-Methylnaphthalene	mg/kg	0.058 J	0.12 J	0.14 J	0.84	ND(0.23)	0.092 J	0.22 J	1.0
2-Methylphenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	0.059 J
2-Nitrophenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
3,3'-Dichlorobenzidine	mg/kg	ND(0.41)	ND(0.37)	ND(0.35)	ND(0.37)	ND(0.45)	ND(0.37)	ND(1.8)	ND(2.1)
4,6-Dinitro-2-methylphenol	mg/kg	ND(1.0)	ND(0.90)	ND(0.86)	ND(0.89)	ND(1.1)	ND(0.90)	ND(0.17)	ND(0.20)
4-Bromophenyl-phenylether	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
4-Chloro-3-Methylphenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
4-Chloroaniline	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.17)	ND(0.20)
4-Chlorophenyl-phenylether	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
4-Methylphenol	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	0.042 J	ND(0.23)	ND(0.19)	ND(0.29)	0.057 J
4-Nitrophenol	mg/kg	ND(1.0)	ND(0.90)	ND(0.86)	ND(0.89)	ND(1.1)	ND(0.90)	ND(0.37)	ND(0.44)
Acenaphthene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	0.052 J	ND(0.23)	ND(0.19)	ND(0.29)	0.067 J
Acenaphthylene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	0.018 J
Anthracene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	0.041 J	ND(0.23)	ND(0.19)	0.016 J	0.099 J
Benzo(a)anthracene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	0.038 J	NA	0.12 J	0.051 J	0.090 J
Benzo(a)pyrene	mg/kg	ND(0.21 J)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	0.13 J	0.068 J	0.064 J
Benzo(b)fluoranthene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	0.042 J	ND(0.23)	0.35	0.065 J	0.052 J
Benzo(g,h,i)perylene	mg/kg	ND(0.21 J)	ND(0.19 J)	ND(0.18 J)	ND(0.18 J)	ND(0.23 J)	0.12 J	0.029 J	ND(0.35)
Benzo(k)fluoranthene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	0.064 J	0.037 J	0.041 J
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	ND(0.29)	0.12 J
bis(2-Chloroethyl)ether	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.089)	ND(0.11)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	0.12 J	ND(0.29)	ND(0.35)
Butylbenzylphthalate	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
Carbazole	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
Chrysene	mg/kg	ND(0.21)	ND(0.19)	0.026 J	0.068 J	ND(0.23)	0.25	0.082 J	0.11 J
Dibenzo(a,h)anthracene	mg/kg	ND(0.21 J)	ND(0.19 J)	ND(0.18 J)	ND(0.18 J)	ND(0.23 J)	ND(0.19)	ND(0.29)	ND(0.35)
Dibenzofuran	mg/kg	ND(0.21)	0.027 J	ND(0.18)	0.058 J	ND(0.23)	ND(0.19)	0.041 J	0.24 J

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock SB-304 6 - 8 02/08/95	Previous Metal Feedstock SB-305 0 - 1 02/08/95	Previous Metal Feedstock SB-305 2 - 4 02/08/95	Previous Metal Feedstock SB-305 6 - 8 02/08/95	Previous Metal Feedstock SB-305 10 - 12 02/08/95	Previous Metal Feedstock SB-352 0 - 2 06/28/95	Primary Settling Pond BH7 0 - 2 03/06/07	Primary Settling Pond BH7 2 - 4 03/06/07
Semivolatile Organics (Cont'd.)									
Diethylphthalate	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
Di-n-Butylphthalate	mg/kg	ND(0.21)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.23)	1.5	ND(0.29)	ND(0.35)
Di-n-Octylphthalate	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
Fluoranthene	mg/kg	ND(0.21)	ND(0.19)	0.032 J	0.072 J	ND(0.23)	0.35	0.081 J	0.16 J
Fluorene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	0.11 J	ND(0.23)	ND(0.19)	0.010 J	0.14 J
Hexachlorobenzene	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	ND(0.35)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.21 J)	ND(0.19 J)	ND(0.18 J)	ND(0.18 J)	ND(0.23)	0.13 J	0.025 J	ND(0.35)
Isophorone	mg/kg	ND(0.21)	0.21	0.38	ND(0.18)	ND(0.23)	0.18 J	ND(0.29)	0.56
Naphthalene	mg/kg	0.042 J	0.097 J	0.085 J	0.63	ND(0.23)	0.049 J	0.12 J	0.74
Pentachlorophenol	mg/kg	ND(1.0)	ND(0.90)	ND(0.86)	ND(0.89)	ND(1.1)	ND(0.90)	ND(0.17)	ND(0.20)
Phenanthrene	mg/kg	0.047 J	0.078 J	0.076 J	0.28	ND(0.23)	0.13 J	0.13 J	0.68
Phenol	mg/kg	ND(0.21)	0.032 J	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	0.14 J	ND(0.35)
Pyrene	mg/kg	0.024 J	ND(0.19)	0.027 J	0.090 J	ND(0.23)	0.36	0.075 J	0.17 J
Total Methylphenols	mg/kg	ND(0.21)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.23)	ND(0.19)	ND(0.29)	0.059 J

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Primary Settling Pond BH8 0 - 2 03/06/07	Primary Settling Pond BH8 2 - 4 03/06/07	Primary Settling Pond NS-1 0 - 14 06/23/95	Railyard Area BH11 0 - 2 03/06/07	Railyard Area BH11 2 - 4 03/06/07	Railyard Area BH12 0 - 2 03/06/07	Railyard Area BH12 2 - 4 03/06/07	Railyard Area NS-RS-4 2.5 - 3 06/13/95
Semivolatile Organics									
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	R
2,4,5-Trichlorophenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2,4,6-Trichlorophenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2,4-Dichlorophenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2,4-Dimethylphenol	mg/kg	ND(0.29)	0.034 J	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2,4-Dinitrophenol	mg/kg	ND(0.16)	ND(0.18)	ND(1.2 J)	ND(0.68)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.17)	ND(1.0)
2,4-Dinitrotoluene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2-Chloronaphthalene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2-Chlorophenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2-Methylnaphthalene	mg/kg	0.40	0.74	ND(0.24)	0.35 J	0.0098 J	0.023 J [0.038 J]	0.058 J	ND(0.21)
2-Methylphenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
2-Nitrophenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
3,3'-Dichlorobenzidine	mg/kg	ND(1.7)	ND(1.9)	ND(0.49)	ND(7.2)	ND(1.9)	ND(1.8) [ND(1.8)]	ND(1.8)	ND(0.42)
4,6-Dinitro-2-methylphenol	mg/kg	ND(0.16)	ND(0.18)	ND(1.2)	ND(0.68)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.17)	ND(1.0)
4-Bromophenyl-phenylether	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
4-Chloro-3-Methylphenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
4-Chloroaniline	mg/kg	ND(0.16)	ND(0.18)	ND(0.24)	ND(0.68)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.17)	ND(0.21)
4-Chlorophenyl-phenylether	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
4-Methylphenol	mg/kg	ND(0.29)	0.028 J	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
4-Nitrophenol	mg/kg	ND(0.36)	ND(0.39)	ND(1.2)	ND(1.5)	ND(0.39)	ND(0.37) [ND(0.38)]	ND(0.37)	ND(1.0)
Acenaphthene	mg/kg	ND(0.29)	0.026 J	ND(0.24)	0.031 J	ND(0.31)	ND(0.30) [ND(0.30)]	0.068 J	ND(0.21)
Acenaphthylene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	0.032 J	ND(0.31)	0.0076 J [0.011 J]	0.035 J	ND(0.21)
Anthracene	mg/kg	0.016 J	0.036 J	ND(0.24)	0.10 J	ND(0.31)	0.0092 J [0.0086 J]	0.023 J	ND(0.21)
Benzo(a)anthracene	mg/kg	0.022 J	0.047 J	ND(0.24)	0.31 J	0.0079 J	0.036 J [0.028 J]	0.060 J	ND(0.21)
Benzo(a)pyrene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	0.36 J	ND(0.31)	0.035 J [0.021 J]	0.061 J	ND(0.21)
Benzo(b)fluoranthene	mg/kg	0.019 J	0.026 J	ND(0.24)	0.43 J	ND(0.31)	0.046 J [0.037 J]	0.066 J	ND(0.21)
Benzo(g,h,i)perylene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	0.20 J	ND(0.31)	ND(0.30) [ND(0.30)]	0.031 J	ND(0.21)
Benzo(k)fluoranthene	mg/kg	0.010 J	0.022 J	ND(0.24)	0.19 J	ND(0.31)	0.021 J [0.0099 J]	0.043 J	ND(0.21)
Biphenyl	mg/kg	0.055 J	0.11 J	NA	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.087)	ND(0.095)	ND(0.24)	ND(0.36)	ND(0.095)	ND(0.090) [ND(0.091)]	ND(0.089)	ND(0.21)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.29)	ND(0.31)	0.33	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Butylbenzylphthalate	mg/kg	ND(0.29)	ND(0.31)	0.25	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Carbazole	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Chrysene	mg/kg	0.036 J	0.068 J	ND(0.24)	0.42 J	0.0091 J	0.047 J [0.034 J]	0.072 J	ND(0.21)
Dibenzo(a,h)anthracene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Dibenzofuran	mg/kg	0.090 J	0.16 J	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)

See Notes in Table 15.

Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Primary Settling Pond BH8 0 - 2 03/06/07	Primary Settling Pond BH8 2 - 4 03/06/07	Primary Settling Pond NS-1 0 - 14 06/23/95	Railyard Area BH11 0 - 2 03/06/07	Railyard Area BH11 2 - 4 03/06/07	Railyard Area BH12 0 - 2 03/06/07	Railyard Area BH12 2 - 4 03/06/07	Railyard Area NS-RS-4 2.5 - 3 06/13/95
Semivolatile Organics (Cont'd.)									
Diethylphthalate	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Di-n-Butylphthalate	mg/kg	ND(0.29)	0.025 J	3.0	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	0.037 J	3.2
Di-n-Octylphthalate	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Fluoranthene	mg/kg	0.051 J	0.084 J	ND(0.24)	0.58 J	0.0091 J	0.073 J [0.049 J]	0.13 J	ND(0.21)
Fluorene	mg/kg	0.016 J	0.042 J	ND(0.24)	0.040 J	ND(0.31)	ND(0.30) [ND(0.30)]	0.029 J	ND(0.21)
Hexachlorobenzene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	0.20 J	ND(0.31)	0.021 J [ND(0.30)]	0.030 J	ND(0.21)
Isophorone	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Naphthalene	mg/kg	0.24 J	0.45	ND(0.24)	0.15 J	0.013 J	0.014 J [0.025 J]	0.064 J	ND(0.21)
Pentachlorophenol	mg/kg	ND(0.16)	ND(0.18)	ND(1.2 J)	ND(0.68)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.17)	ND(1.0)
Phenanthrene	mg/kg	0.20 J	0.33	ND(0.24)	0.45 J	ND(0.31)	0.062 J [0.041 J]	0.11 J	ND(0.21)
Phenol	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)
Pyrene	mg/kg	0.040 J	0.078 J	ND(0.24)	0.58 J	0.010 J	0.076 J [0.054 J]	0.14 J	ND(0.21)
Total Methylphenols	mg/kg	ND(0.29)	ND(0.31)	ND(0.24)	ND(1.2)	ND(0.31)	ND(0.30) [ND(0.30)]	ND(0.29)	ND(0.21)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-1 0 - 1 06/13/95	Railyard Area RS-2 0 - 1 06/13/95	Railyard Area RS-3 0 - 1 06/13/95	Railyard Area RS-4 0 - 1 06/13/95	Railyard Area RS-6 0 - 1 06/13/95	Railyard Area RS-7 0 - 1 06/13/95	Railyard Area RS-8 0 - 1 06/13/95	Secondary Settling Pond NS-SD-10 2 - 3.4 06/20/95	Secondary Settling Pond NS-SD-11 2.3 - 2.9 06/20/95
Semivolatile Organics										
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
2,4,6-Trichlorophenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
2,4-Dichlorophenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
2,4-Dimethylphenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	0.028 J [ND(0.35)]	ND(0.17)	0.071 J	ND(0.17)	ND(0.22)	ND(0.22)
2,4-Dinitrophenol	mg/kg	ND(0.84)	ND(4.3)	ND(0.86)	ND(0.85) [ND(1.7)]	ND(0.84)	ND(0.86)	ND(0.84)	ND(1.1)	ND(1.1)
2,4-Dinitrotoluene	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
2-Chloronaphthalene	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
2-Chlorophenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
2-Methylnaphthalene	mg/kg	0.73	0.30 J	0.14 J	1.1 [0.76]	0.039 J	1.8	0.26	ND(0.22)	ND(0.22)
2-Methylphenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	0.039 J	ND(0.17)	ND(0.22)	ND(0.22)
2-Nitrophenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
3,3'-Dichlorobenzidine	mg/kg	ND(0.35)	ND(1.8)	ND(0.35)	ND(0.35) [ND(0.70)]	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.44)	ND(0.44)
4,6-Dinitro-2-methylphenol	mg/kg	ND(0.84)	ND(4.3)	ND(0.86)	ND(0.85) [ND(1.7)]	ND(0.84)	ND(0.86)	ND(0.84)	ND(1.1)	ND(1.1)
4-Bromophenyl-phenylether	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
4-Chloro-3-Methylphenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
4-Chloroaniline	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
4-Chlorophenyl-phenylether	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
4-Methylphenol	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	0.037 J	ND(0.17)	ND(0.22)	ND(0.22)
4-Nitrophenol	mg/kg	ND(0.84)	ND(4.3 J)	ND(0.86 J)	ND(0.85) [ND(1.7)]	ND(0.84)	ND(0.86)	ND(0.84)	ND(1.1)	ND(1.1)
Acenaphthene	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	0.020 J [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Acenaphthylene	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Anthracene	mg/kg	0.091 J	ND(0.90)	0.026 J	0.045 J [ND(0.35)]	ND(0.17)	0.053 J	0.029 J	ND(0.22)	ND(0.22)
Benzo(a)anthracene	mg/kg	0.15 J	0.22 J	0.14 J	0.13 J [0.085 J]	0.069 J	0.099 J	0.14 J	ND(0.22)	ND(0.22)
Benzo(a)pyrene	mg/kg	0.11 J	0.22 J	0.12 J	0.11 J [0.065 J]	0.064 J	0.053 J	0.11 J	ND(0.22)	ND(0.22)
Benzo(b)fluoranthene	mg/kg	0.16 J	0.46 J	0.30	0.14 J [0.095 J]	0.098 J	0.094 J	0.18	ND(0.22)	ND(0.22)
Benzo(g,h,i)perylene	mg/kg	0.067 J	ND(0.90 J)	0.096 J	0.052 J [0.047 J]	0.037 J	0.041 J	0.054 J	ND(0.22)	ND(0.22)
Benzo(k)fluoranthene	mg/kg	0.046 J	ND(0.90 J)	ND(0.18)	0.081 J [0.038 J]	0.052 J	ND(0.18)	0.086 J	ND(0.22)	ND(0.22)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.17)	ND(0.90)	0.074 J	0.29 [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Butylbenzylphthalate	mg/kg	ND(0.17)	9.2	ND(0.18)	0.20 [0.099 J]	0.027 J	0.045 J	0.056 J	ND(0.22)	ND(0.22)
Carbazole	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Chrysene	mg/kg	0.18	0.35 J	0.19	0.20 [0.13 J]	0.089 J	0.14 J	0.18	ND(0.22)	ND(0.22)
Dibenzo(a,h)anthracene	mg/kg	ND(0.17)	ND(0.90 J)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Dibenzofuran	mg/kg	0.19	ND(0.90)	0.036 J	0.25 [0.17 J]	ND(0.17)	0.37	0.067 J	ND(0.22)	ND(0.22)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-1 0 - 1 06/13/95	Railyard Area RS-2 0 - 1 06/13/95	Railyard Area RS-3 0 - 1 06/13/95	Railyard Area RS-4 0 - 1 06/13/95	Railyard Area RS-6 0 - 1 06/13/95	Railyard Area RS-7 0 - 1 06/13/95	Railyard Area RS-8 0 - 1 06/13/95	Secondary Settling Pond NS-SD-10 2 - 3.4 06/20/95	Secondary Settling Pond NS-SD-11 2.3 - 2.9 06/20/95
Semivolatile Organics (Cont'd.)										
Diethylphthalate	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Di-n-Butylphthalate	mg/kg	0.046 J	ND(0.90)	0.11 J	2.2 [4.1]	2.1	3.6 D	1.4	0.23	1.6
Di-n-Octylphthalate	mg/kg	ND(0.17)	ND(0.90 J)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	3.6 D	ND(0.17)	ND(0.22)	ND(0.22)
Fluoranthene	mg/kg	0.32	0.41 J	0.23	0.27 [0.17 J]	0.15 J	0.24	0.32	ND(0.22)	ND(0.22)
Fluorene	mg/kg	0.056 J	ND(0.90)	ND(0.18)	0.045 J [ND(0.35)]	ND(0.17)	0.061 J	ND(0.17)	ND(0.22)	ND(0.22)
Hexachlorobenzene	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Indeno(1,2,3-cd)pyrene	mg/kg	0.046 J	ND(0.90 J)	0.068 J	0.036 J [ND(0.35)]	0.032 J	ND(0.18)	0.047 J	ND(0.22)	ND(0.22)
Isophorone	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	ND(0.18)	ND(0.17)	ND(0.22)	ND(0.22)
Naphthalene	mg/kg	0.49	0.26 J	0.089 J	0.65 [0.45]	ND(0.17)	1.0	0.17	ND(0.22)	ND(0.22)
Pentachlorophenol	mg/kg	ND(0.84)	ND(4.3)	ND(0.86)	ND(0.85) [ND(1.7)]	ND(0.84)	ND(0.86)	ND(0.84)	ND(1.1)	ND(1.1)
Phenanthrene	mg/kg	0.60	0.33 J	0.17 J	0.55 [0.35]	0.090 J	0.87	0.27	ND(0.22)	ND(0.22)
Phenol	mg/kg	0.024 J	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	0.057 J	ND(0.17)	ND(0.22)	ND(0.22)
Pyrene	mg/kg	0.30	0.53 J	0.26	0.20 [0.13 J]	0.091 J	0.12 J	0.19	ND(0.22)	ND(0.22)
Total Methylphenols	mg/kg	ND(0.17)	ND(0.90)	ND(0.18)	ND(0.17) [ND(0.35)]	ND(0.17)	0.039 J	ND(0.17)	ND(0.22)	ND(0.22)

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-12 2.6 - 3.4 06/20/95	Secondary Settling Pond NS-SD-13 3.4 - 4.1 06/20/95	Secondary Settling Pond NS-SD-14 2.3 - 3.1 06/20/95	Secondary Settling Pond NS-SD-15 2.3 - 3.4 06/20/95	Secondary Settling Pond NS-SD-16 2.7 - 3.7 06/20/95	Secondary Settling Pond NS-SD-17 2.4 - 3 06/20/95	Secondary Settling Pond NS-SD-18 1 - 14 06/20/95
Semivolatile Organics								
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2,4,6-Trichlorophenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2,4-Dichlorophenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2,4-Dimethylphenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2,4-Dinitrophenol	mg/kg	ND(1.1)	ND(1.2)	ND(2.0)	ND(1.1 J)	ND(1.2)	ND(1.1)	ND(1.1) [ND(1.1)]
2,4-Dinitrotoluene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23 J)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2-Chloronaphthalene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2-Chlorophenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2-Methylnaphthalene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2-Methylphenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
2-Nitrophenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
3,3'-Dichlorobenzidine	mg/kg	ND(0.47)	ND(0.50)	ND(0.84)	ND(0.46)	ND(0.50)	ND(0.47)	ND(0.44) [ND(0.43)]
4,6-Dinitro-2-methylphenol	mg/kg	ND(1.1)	ND(1.2)	ND(2.0)	ND(1.1 J)	ND(1.2)	ND(1.1)	ND(1.1) [ND(1.1)]
4-Bromophenyl-phenylether	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
4-Chloro-3-Methylphenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
4-Chloroaniline	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
4-Chlorophenyl-phenylether	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
4-Methylphenol	mg/kg	ND(0.24)	0.083 J	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
4-Nitrophenol	mg/kg	ND(1.1)	ND(1.2)	ND(2.0)	ND(1.1 J)	ND(1.2)	ND(1.1)	ND(1.1) [ND(1.1)]
Acenaphthene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Acenaphthylene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Anthracene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Benzo(a)anthracene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Benzo(a)pyrene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Benzo(b)fluoranthene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Benzo(g,h,i)perylene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Benzo(k)fluoranthene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Butylbenzylphthalate	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Carbazole	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Chrysene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Dibenzo(a,h)anthracene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Dibenzofuran	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-12 2.6 - 3.4 06/20/95	Secondary Settling Pond NS-SD-13 3.4 - 4.1 06/20/95	Secondary Settling Pond NS-SD-14 2.3 - 3.1 06/20/95	Secondary Settling Pond NS-SD-15 2.3 - 3.4 06/20/95	Secondary Settling Pond NS-SD-16 2.7 - 3.7 06/20/95	Secondary Settling Pond NS-SD-17 2.4 - 3 06/20/95	Secondary Settling Pond NS-SD-18 1 - 14 06/20/95
Semivolatile Organics (Cont'd.)								
Diethylphthalate	mg/kg	ND(0.24)	ND(0.25)	0.40 J	ND(0.23 J)	ND(0.25)	ND(0.23)	0.21 J [0.29]
Di-n-Butylphthalate	mg/kg	ND(0.24)	ND(0.25)	4.4	0.11 J	2.9	0.27	2.4 [3.2]
Di-n-Octylphthalate	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Fluoranthene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Fluorene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Hexachlorobenzene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Isophorone	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Naphthalene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Pentachlorophenol	mg/kg	ND(1.1)	ND(1.2)	ND(2.0)	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.1) [ND(1.1)]
Phenanthrene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Phenol	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Pyrene	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]
Total Methylphenols	mg/kg	ND(0.24)	ND(0.25)	ND(0.42)	ND(0.23)	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-19 4 - 5.1 06/20/95	Secondary Settling Pond NS-SD-20 1.9 - 2.5 06/20/95	Secondary Settling Pond NS-SD-21 1.8 - 2.4 06/20/95	Stormwater Pond NS-7 0 - 4.5 06/21/95	Stormwater Pond NS-8 0 - 10 06/21/95	Stormwater Pond NS-9 0 - 4.5 06/21/95	Stormwater Pond NS-10 0 - 10 06/21/95	UST 2 T02-B001 6 - 8 08/28/90
Semivolatile Organics									
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2,4,6-Trichlorophenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2,4-Dichlorophenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2,4-Dimethylphenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2,4-Dinitrophenol	mg/kg	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.0)	ND(1.2)	ND(1.0)	ND(1.1)	NA
2,4-Dinitrotoluene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2-Chloronaphthalene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2-Chlorophenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2-Methylnaphthalene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2-Methylphenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
2-Nitrophenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
3,3'-Dichlorobenzidine	mg/kg	ND(0.44)	ND(0.51)	ND(0.44)	ND(0.41)	ND(0.48)	ND(0.43)	ND(0.44)	NA
4,6-Dinitro-2-methylphenol	mg/kg	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.0)	ND(1.2)	ND(1.0)	ND(1.1)	NA
4-Bromophenyl-phenylether	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
4-Chloro-3-Methylphenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
4-Chloroaniline	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
4-Chlorophenyl-phenylether	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
4-Methylphenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
4-Nitrophenol	mg/kg	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.0)	ND(1.2)	ND(1.0)	ND(1.1)	NA
Acenaphthene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Acenaphthylene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Anthracene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Benzo(a)anthracene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Benzo(a)pyrene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	0.050 J	0.050 J	ND(0.22)	ND(0.30)
Benzo(b)fluoranthene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Benzo(g,h,i)perylene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Benzo(k)fluoranthene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Butylbenzylphthalate	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Carbazole	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Chrysene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Dibenzo(a,h)anthracene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Dibenzofuran	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-19 4 - 5.1 06/20/95	Secondary Settling Pond NS-SD-20 1.9 - 2.5 06/20/95	Secondary Settling Pond NS-SD-21 1.8 - 2.4 06/20/95	Stormwater Pond NS-7 0 - 4.5 06/21/95	Stormwater Pond NS-8 0 - 10 06/21/95	Stormwater Pond NS-9 0 - 4.5 06/21/95	Stormwater Pond NS-10 0 - 10 06/21/95	UST 2 T02-B001 6 - 8 08/28/90
Semivolatile Organics (Cont'd.)									
Diethylphthalate	mg/kg	0.19 J	0.30	0.29	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Di-n-Butylphthalate	mg/kg	2.0	3.4	3.4	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Di-n-Octylphthalate	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Fluoranthene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Fluorene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Hexachlorobenzene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Isophorone	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Naphthalene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Pentachlorophenol	mg/kg	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.0)	ND(1.2)	ND(1.0)	ND(1.1)	NA
Phenanthrene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Phenol	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA
Pyrene	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.30)
Total Methylphenols	mg/kg	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	NA

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 2 T02-B002 6 - 8 08/28/90	UST 2 T02-B004 6 - 8 08/28/90	UST 2 T02-B047 2 - 4 09/07/90	UST 2 T02-B047 8 - 10 09/07/90	UST 2 T02-B048 2 - 4 09/07/90	UST 2 T02-B048 8 - 10 09/07/90	UST 6 T06-B010 11 - 13 08/29/90	UST 6 T06-B010 13 - 15 08/29/90	UST 6 T06-B011 3 - 5 08/29/90	UST 6 T06-B011 9 - 11 08/29/90	UST 6 T06-B011 14 - 16 08/29/90	UST 6 T06-B012 11 - 13 08/30/90	UST 6 T06-B012 13 - 15 08/30/90	UST 6 T06-B058 0 - 2 10/03/90
Semivolatile Organics															
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Acenaphthylene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Anthracene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	0.80
Benzo(a)anthracene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(a)pyrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(b)fluoranthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(g,h,i)perylene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(k)fluoranthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	0.80
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	0.90
Dibenzo(a,h)anthracene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 2 T02-B002 6 - 8 08/28/90	UST 2 T02-B004 6 - 8 08/28/90	UST 2 T02-B047 2 - 4 09/07/90	UST 2 T02-B047 8 - 10 09/07/90	UST 2 T02-B048 2 - 4 09/07/90	UST 2 T02-B048 8 - 10 09/07/90	UST 6 T06-B010 11 - 13 08/29/90	UST 6 T06-B010 13 - 15 08/29/90	UST 6 T06-B011 3 - 5 08/29/90	UST 6 T06-B011 9 - 11 08/29/90	UST 6 T06-B011 14 - 16 08/29/90	UST 6 T06-B012 11 - 13 08/30/90	UST 6 T06-B012 13 - 15 08/30/90	UST 6 T06-B058 0 - 2 10/03/90
Semivolatile Organics (Cont'd.)															
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	1.6
Fluorene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Total Methyphenois	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 6 T06-B058 6 - 8 10/03/90	UST 6 T06-B058 12 - 14 10/03/90	UST 6 T06-B059 0 - 2 10/03/90	UST 6 T06-B059 8 - 10 10/03/90	UST 6 T06-B059 14 - 16 10/03/90	UST 7 BBL-MW1 4 - 6 05/02/96	UST 7 BBL-MW2 4 - 6 05/02/96	UST 7 BBL-MW3 6 - 8 05/02/96	UST 7 BBL-MW4 4 - 6 05/03/96	UST 7 BBL-MW5 4 - 6 05/03/96	UST 7 BBL-SB1 4 - 6 05/06/96	UST 7 BBL-SB1 8 - 10 05/06/96	UST 7 BBL-SB2 0 - 2 05/07/96
Semivolatile Organics														
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	0.027	R	7.7 J (IDWP)	R	R	R	18 (IDWP)	R
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 6 T06-B058 6 - 8 10/03/90	UST 6 T06-B058 12 - 14 10/03/90	UST 6 T06-B059 0 - 2 10/03/90	UST 6 T06-B059 8 - 10 10/03/90	UST 6 T06-B059 14 - 16 10/03/90	UST 7 BBL-MW1 4 - 6 05/02/96	UST 7 BBL-MW2 4 - 6 05/02/96	UST 7 BBL-MW3 6 - 8 05/02/96	UST 7 BBL-MW4 4 - 6 05/03/96	UST 7 BBL-MW5 4 - 6 05/03/96	UST 7 BBL-SB1 4 - 6 05/06/96	UST 7 BBL-SB1 8 - 10 05/06/96	UST 7 BBL-SB2 0 - 2 05/07/96
Semivolatile Organics (Cont'd.)														
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	NA	NA	NA	NA	NA	NA	NA	NA
Total Methyphenols	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 BBL-SB2 8 - 10 05/07/96	UST 7 BBL-SB3 6 - 8 05/07/96	UST 7 BBL-SB3 8 - 10 05/07/96	UST 7 BBL-SB4 0 - 2 05/07/96	UST 7 BBL-SB4 8 - 10 05/07/96	UST 7 BBL-SB5 0 - 2 05/06/96	UST 7 BBL-SB5 20 - 22 05/06/96	UST 7 SB-351 0 - 2 06/27/95	UST 8 UST8-MW1 0 - 2 05/25/94	UST 8 UST8-MW1 2 - 4 05/25/94	UST 8 UST8-MW2 0 - 2 05/25/94	UST 8 UST8-MW3 1 - 3 05/31/94	UST 8 UST8-SB1 2 - 3 04/01/94
Semivolatile Organics														
1,3,5-Trimethylbenzene	mg/kg	R	0.019	7.1 J (IDWP)	R	R	R	R	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(1.8)	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.74)	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(1.8)	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(1.8)	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.082 J	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Dibenzo(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 BBL-SB2 8 - 10 05/07/96	UST 7 BBL-SB3 6 - 8 05/07/96	UST 7 BBL-SB3 8 - 10 05/07/96	UST 7 BBL-SB4 0 - 2 05/07/96	UST 7 BBL-SB4 8 - 10 05/07/96	UST 7 BBL-SB5 0 - 2 05/06/96	UST 7 BBL-SB5 20 - 22 05/06/96	UST 7 SB-351 0 - 2 06/27/95	UST 8 UST8-MW1 0 - 2 05/25/94	UST 8 UST8-MW1 2 - 4 05/25/94	UST 8 UST8-MW2 0 - 2 05/25/94	UST 8 UST8-MW3 1 - 3 05/31/94	UST 8 UST8-SB1 2 - 3 04/01/94
Semivolatile Organics (Cont'd.)														
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	3.8	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(1.8)	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(33)
Total Methylphenols	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.37)	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 8 UST8-SB2 0 - 1.2 04/01/94	UST 8 UST8-SB3 0.7 - 1.1 04/01/94	UST 8 UST8-SB4 1.8 - 2.3 04/01/94	UST 8 UST8-SB5 4 - 6 05/31/94	UST 9 T09-B017 8 - 10 08/30/90	UST 9 T09-B018 6 - 8 08/30/90	UST 9 T09-B019 4 - 6 08/30/90	UST 10 T10-B034 6 - 8 09/05/90	UST 10 T10-B034 8 - 10 09/05/90	UST 10 T10-B035 8 - 10 09/05/90	UST 10 T10-B035 10 - 12 09/05/90
Semivolatile Organics												
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Acenaphthylene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Anthracene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(a)anthracene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(a)pyrene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(b)fluoranthene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(g,h,i)perylene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Benzo(k)fluoranthene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Biphenyl	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Dibenzo(a,h)anthracene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 6. Semivolatile Organic Compounds Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 8 UST8-SB2 0 - 1.2 04/01/94	UST 8 UST8-SB3 0.7 - 1.1 04/01/94	UST 8 UST8-SB4 1.8 - 2.3 04/01/94	UST 8 UST8-SB5 4 - 6 05/31/94	UST 9 T09-B017 8 - 10 08/30/90	UST 9 T09-B018 6 - 8 08/30/90	UST 9 T09-B019 4 - 6 08/30/90	UST 10 T10-B034 6 - 8 09/05/90	UST 10 T10-B034 8 - 10 09/05/90	UST 10 T10-B035 8 - 10 09/05/90	UST 10 T10-B035 10 - 12 09/05/90
Semivolatile Organics (Cont'd.)												
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Fluorene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	ND(6.6)	ND(66)	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	ND(6.6)	1.6	ND(0.33)	ND(0.00033)	0.30	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	ND(6.6)	1.9	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	ND(6.6)	0.69	ND(0.33)	ND(0.00033)	ND(0.30)	ND(0.30)	ND(0.30)	ND(1.5)	ND(0.30)	ND(0.30)	ND(0.30)
Total Methylphenols	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI	Above Ground Storage Tank Area AST-B1 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B2 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B3 1 - 12 11/08/88	Above Ground Storage Tank Area AST-B4 1 - 12 11/08/88
PCBs											
Aroclor-1242	mg/kg	--	--	--	--	--	--	ND(0.11)	ND(0.11)	ND(0.11)	ND(0.11)
Aroclor-1248	mg/kg	--	--	--	--	--	--	ND(0.11)	ND(0.11)	ND(0.11)	ND(0.11)
Aroclor-1254	mg/kg	--	--	--	--	--	--	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)
Aroclor-1260	mg/kg	--	--	--	--	--	--	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)
Total PCBs	mg/kg	{NLL}	16 {J,T}	{NLL}	6,500 {J,T}	16,000 {J,T}	810 {J,T}	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)
Organochlorine Pesticides											
None Detected	--	--	--	--	--	--	--	NA	NA	NA	NA
Organochlorine Pesticides-TCLP											
None Detected	--	--	--	--	--	--	--	NA	NA	NA	NA
Organophosphate Pesticides											
None Detected	--	--	--	--	--	--	--	NA	NA	NA	NA
Dioxins/Furans											
None Detected	--	--	--	--	--	--	--	NA	NA	NA	NA
TPH											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
Miscellaneous											
pH	S.U.	--	--	--	--	--	--	NA	NA	NA	NA
Sulfide	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
Total Solids	%	--	--	--	--	--	--	NA	NA	NA	NA

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Above Ground Storage Tank Area AST-B5 1 - 15 11/08/88	Above Ground Storage Tank Area AST-B6 1 - 13.5 11/08/88	Above Ground Storage Tank Area AST-B7 1 - 12 11/08/88	Center Street Area MW-145WT 7 - 17 06/08/95	Center Street Area SB-319 14 - 16 06/13/95	Central Type III Landfill SB-312 8 - 10 06/06/95	LNAPL Assessment Area SB-01A 1 - 3 08/23/01
PCBs								
Aroclor-1242	mg/kg	ND(0.12)	ND(0.11)	ND(0.11)	ND(0.22)	ND(0.22 J)	ND(0.20)	ND(0.035)
Aroclor-1248	mg/kg	ND(0.12)	ND(0.11)	ND(0.11)	ND(0.22)	ND(0.22 J)	ND(0.20)	ND(0.035)
Aroclor-1254	mg/kg	ND(0.24)	ND(0.22)	ND(0.23)	ND(0.22)	ND(0.22 J)	ND(0.20)	ND(0.035)
Aroclor-1260	mg/kg	ND(0.24)	ND(0.22)	ND(0.23)	ND(0.22)	ND(0.22 J)	ND(0.20)	ND(0.035)
Total PCBs	mg/kg	ND(0.24)	ND(0.22)	ND(0.23)	ND(0.22)	ND(0.22)	ND(0.20)	ND(0.035)
Organochlorine Pesticides								
None Detected	--	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP								
None Detected	--	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides								
None Detected	--	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans								
None Detected	--	NA	NA	NA	NA	NA	NA	NA
TPH								
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	1,800	30,000	1,200	NA
Miscellaneous								
pH	S.U.	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	NA	NA	75.8	76.6	80.6	94.4

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-01A 5 - 7 08/23/01	LNAPL Assessment Area SB-02-SMI 1.2 - 3.2 08/23/01	LNAPL Assessment Area SB-02-SMI 9 - 11 08/23/01	LNAPL Assessment Area SB-03-SMI 0.7 - 2.7 08/23/01	LNAPL Assessment Area SB-03-SMI 4.7 - 6.7 08/23/01	LNAPL Assessment Area SB-04-SMI 0.3 - 2.3 08/23/01
PCBs							
Aroclor-1242	mg/kg	ND(0.035)	ND(0.038)	ND(0.039)	ND(0.036) [ND(0.036)]	ND(0.037)	ND(0.034)
Aroclor-1248	mg/kg	ND(0.035)	ND(0.038)	0.097	ND(0.036) [ND(0.036)]	ND(0.037)	ND(0.034)
Aroclor-1254	mg/kg	ND(0.035)	ND(0.038)	ND(0.039)	0.077 [0.093]	ND(0.037)	ND(0.034)
Aroclor-1260	mg/kg	ND(0.035)	ND(0.038)	ND(0.039)	ND(0.036) [ND(0.036)]	ND(0.037)	ND(0.034)
Total PCBs	mg/kg	ND(0.035)	ND(0.038)	0.097	0.077 [0.093]	ND(0.037)	ND(0.034)
Organochlorine Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP							
None Detected	--	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Dioxins/Furans							
None Detected	--	NA	NA	NA	NA	NA	NA
TPH							
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA
Miscellaneous							
pH	S.U.	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA
Total Solids	%	93.7	87.3	85.4	92.3 [92.5]	88.5	95.9

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-04-SMI 8.3 - 10 08/23/01	LNAPL Assessment Area SB-325 8 - 10 06/14/95	LNAPL Assessment Area SB-362 0 - 2 09/28/95	LNAPL Assessment Area SB-362 4 - 6 09/28/95	LNAPL Assessment Area SB-362 8 - 10 09/28/95	LNAPL Assessment Area SB-363 0 - 2 09/28/95
PCBs							
Aroclor-1242	mg/kg	ND(0.044)	ND(0.20 J)	ND(3.9)	ND(0.18)	ND(0.21)	ND(3.7)
Aroclor-1248	mg/kg	ND(0.044)	ND(0.20 J)	ND(3.9)	ND(0.18)	0.32	ND(3.7)
Aroclor-1254	mg/kg	ND(0.044)	ND(0.20 J)	ND(3.9)	ND(0.18)	ND(0.21)	ND(3.7)
Aroclor-1260	mg/kg	ND(0.044)	ND(0.20 J)	9.6	0.12 J	0.33	5.5
Total PCBs	mg/kg	ND(0.044)	ND(0.20)	9.6	0.12 J	0.65	5.5
Organochlorine Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP							
None Detected	--	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Dioxins/Furans							
None Detected	--	NA	NA	NA	NA	NA	NA
TPH							
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	5,800	NA	NA	NA	NA
Miscellaneous							
pH	S.U.	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA
Total Solids	%	75.6	82.7	85.2	92.3	79.7	89.5

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-363 4 - 6 09/28/95	LNAPL Assessment Area SB-363 8 - 10 09/28/95	LNAPL Assessment Area UP-B1 1 07/14/98	LNAPL Assessment Area UP-B2 1 07/14/98	LNAPL Assessment Area UP-S1 0.5 07/14/98	LNAPL Assessment Area UP-S2 0.5 07/14/98
PCBs							
Aroclor-1242	mg/kg	ND(0.73)	ND(0.20)	ND(0.33)	ND(0.33)	ND(0.33) [ND(0.33)]	ND(0.33)
Aroclor-1248	mg/kg	0.77	ND(0.20)	ND(0.33)	ND(0.33)	ND(0.33) [ND(0.33)]	ND(0.33)
Aroclor-1254	mg/kg	ND(0.73)	ND(0.20)	1.4	0.43	0.68 [0.63]	0.28 J
Aroclor-1260	mg/kg	2.2	0.24	ND(0.33)	ND(0.33)	ND(0.33) [ND(0.33)]	ND(0.33)
Total PCBs	mg/kg	3.0	0.24	1.4	0.43	0.68 [0.63]	0.28 J
Organochlorine Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP							
None Detected	--	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Dioxins/Furans							
None Detected	--	NA	NA	NA	NA	NA	NA
TPH							
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA
Miscellaneous							
pH	S.U.	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA
Total Solids	%	90.9	81.7	NA	NA	NA	NA

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area UP-S3 0.5 07/14/98	LNAPL Assessment Area US-1 0 - 1 06/12/95	LNAPL Assessment Area US-2 0 - 1 06/12/95	LNAPL Assessment Area US-3 0 - 1 06/12/95	LNAPL Assessment Area US-4 0 - 1 06/12/95	LNAPL Assessment Area US-5-2 0 - 1 06/10/96
PCBs							
Aroclor-1242	mg/kg	ND(0.33)	ND(0.21)	ND(0.18)	ND(0.17)	ND(0.17)	ND(0.37)
Aroclor-1248	mg/kg	ND(0.33)	ND(0.21)	ND(0.18)	ND(0.17)	ND(0.17)	ND(0.37)
Aroclor-1254	mg/kg	0.34	ND(0.21)	ND(0.18)	ND(0.17)	ND(0.17)	ND(0.74)
Aroclor-1260	mg/kg	ND(0.33)	0.13 J	0.15 J	0.040 J	0.44	3.1 J
Total PCBs	mg/kg	0.34	0.13 J	0.15 J	0.040 J	0.44	3.1 J
Organochlorine Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP							
None Detected	--	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Dioxins/Furans							
None Detected	--	NA	NA	NA	NA	NA	NA
TPH							
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA
Miscellaneous							
pH	S.U.	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	79.5	93	95	94.8	90.3

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area US-5-4 0 - 1 06/10/96	LNAPL Assessment Area US-5-5 0 - 1 06/10/96	LNAPL Assessment Area US-5-6 0 - 1 06/10/96	LNAPL Assessment Area US-5-8 0 - 1 06/10/96	LNAPL Assessment Area US-6 0 - 1 06/12/95	LNAPL Assessment Area US-7 0 - 1 06/12/95
PCBs							
Aroclor-1242	mg/kg	ND(0.36)	ND(0.18)	ND(0.19)	ND(0.19)	ND(0.69)	ND(0.34)
Aroclor-1248	mg/kg	ND(0.36)	ND(0.18)	ND(0.19)	ND(0.19)	ND(0.69)	ND(0.34)
Aroclor-1254	mg/kg	ND(0.73)	ND(0.18)	ND(0.37)	ND(0.19)	ND(0.69)	ND(0.34)
Aroclor-1260	mg/kg	4.4 J	0.73 J	2.2 J	ND(0.19 J)	3.8	1.0
Total PCBs	mg/kg	4.4 J	0.73 J	2.2 J	ND(0.19)	3.8	1.0
Organochlorine Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP							
None Detected	--	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides							
None Detected	--	NA	NA	NA	NA	NA	NA
Dioxins/Furans							
None Detected	--	NA	NA	NA	NA	NA	NA
TPH							
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA
Miscellaneous							
pH	S.U.	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA
Total Solids	%	91.5	93.2	89.5	86.2	96.9	97.5

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area US-8 0 - 1 06/12/95	Melting Department S1184 3 - 5 07/09/96	Melting Department S1185 3 - 5 07/09/96	Melting Department S1186 3 - 5 07/09/96	Melting Department S1187 3 - 5 07/09/96	Melting Department S1188 4 - 5 06/15/96	Melting Department S2037 3 - 5 09/24/96	Melting Department S2038 3 - 5 09/24/96	Melting Department S3043 0 - 0.5 11/27/96	Melting Department S3044 0 - 0.5 11/27/96
PCBs											
Aroclor-1242	mg/kg	ND(1.7)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	41	ND(1.0)	ND(1.0)	6.3	ND(1.0)
Aroclor-1248	mg/kg	ND(1.7)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)	ND(1.0)	1.0	ND(1.0)	ND(1.0)
Aroclor-1254	mg/kg	ND(1.7)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)	ND(1.0)	ND(1.0)	ND(1.0)	0.67
Aroclor-1260	mg/kg	5.0	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Total PCBs	mg/kg	5.0	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	41 (IDC)	ND(1.0)	1.0	6.3	0.67
Organochlorine Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous											
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	98.7	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Melting Department S3045 0 - 0.5 11/27/96	Melting Department S3046 0 - 0.5 11/27/96	Melting Department S3047 0 - 0.5 11/27/96	Melting Department S3048 0 - 0.5 11/27/96	Parking Lot Area/ Buffer Basin BH9 0 - 2 03/06/07	Parking Lot Area/ Buffer Basin BH9 2 - 4 03/06/07	Parking Lot Area/ Buffer Basin BH10 0 - 2 03/06/07	Parking Lot Area/ Buffer Basin BH10 2 - 4 03/06/07	Parking Lot Area/ Buffer Basin SB-336 0 - 2 06/23/95
PCBs										
Aroclor-1242	mg/kg	1.4	3.1	ND(1.0)	2.1	ND(0.28)	ND(0.31)	ND(0.30)	ND(0.28)	ND(0.17)
Aroclor-1248	mg/kg	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.28)	ND(0.31)	ND(0.30)	ND(0.28)	ND(0.17)
Aroclor-1254	mg/kg	ND(1.0 J)	ND(1.0 J)	ND(1.0 J)	ND(1.0 J)	0.025 J	ND(0.31)	0.023 J	0.029 J	ND(0.17)
Aroclor-1260	mg/kg	ND(1.0 J)	ND(1.0 J)	ND(1.0 J)	ND(1.0 J)	ND(0.28)	ND(0.31)	ND(0.30)	ND(0.28)	ND(0.17)
Total PCBs	mg/kg	1.4	3.1	ND(1.0)	2.1	0.025 J	ND(0.31)	0.023 J	0.029 J	ND(0.17)
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	NA	NA	NA	93.9	86.2	89.5	95.5	94.4

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin SB-337 4 - 6 06/23/95	Parking Lot Area/ Buffer Basin SB-341 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-343 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-344 2 - 4 06/26/95	Parking Lot Area/ Buffer Basin SB-348 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-349 2 - 4 06/27/95	Parking Lot Area/ Buffer Basin SB-354 0 - 2 06/28/95
PCBs								
Aroclor-1242	mg/kg	0.91	ND(0.048)	ND(0.035)	ND(0.040)	ND(0.038)	ND(0.039)	ND(0.035)
Aroclor-1248	mg/kg	ND(0.35)	ND(0.048)	ND(0.035)	ND(0.040)	0.12	0.16	ND(0.035)
Aroclor-1254	mg/kg	ND(0.70)	ND(0.048)	ND(0.035)	ND(0.040)	0.090	0.14	ND(0.035)
Aroclor-1260	mg/kg	1.5	ND(0.048)	ND(0.035)	ND(0.040)	ND(0.038)	ND(0.039)	ND(0.035)
Total PCBs	mg/kg	2.4	ND(0.048)	ND(0.035)	ND(0.040)	0.21	0.30	ND(0.035)
Organochlorine Pesticides								
None Detected	--	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP								
None Detected	--	NA	NA	--	NA	NA	NA	NA
Organophosphate Pesticides								
None Detected	--	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans								
None Detected	--	NA	NA	NA	NA	NA	NA	NA
TPH								
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Miscellaneous								
pH	S.U.	NA	NA	9	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	94.3	69.3	95.7	82.4	87.4	85	93.5

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/ Buffer Basin	Parking Lots East of Plant (CTC)	Parking Lots East of Plant (CTC)	Parking Lots East of Plant (CTC)	Parking Lots East of Plant (CTC)	Parking Lots East of Plant (CTC)	Parking Lots East of Plant (CTC)	Parking Lots East of Plant (CTC)	PLANT I27.7 BH01-98
		SB-355	PL-1	PL-2	PL-3	PL-4	VE-1	VE-2		
		2 - 4	0.75 - 1.21	0.75 - 1.67	0.67 - 1.67	0.75 - 1.5	0.75 - 1.58	0.92 - 1.67		1 - 3
		06/28/95	08/10/01	08/10/01	08/10/01	08/10/01	08/10/01	08/10/01		01/16/98
PCBs										
Aroclor-1242	mg/kg	ND(0.036)	ND(0.042)	ND(0.036) [ND(0.041)]	ND(0.037)	ND(0.036)	ND(0.040)	ND(0.037)		ND(24)
Aroclor-1248	mg/kg	ND(0.036)	ND(0.042)	ND(0.036) [ND(0.041)]	ND(0.037)	ND(0.036)	ND(0.040)	ND(0.037)		ND(24)
Aroclor-1254	mg/kg	ND(0.036)	ND(0.042)	ND(0.036) [ND(0.041)]	ND(0.037)	ND(0.036)	0.061	ND(0.037)		100
Aroclor-1260	mg/kg	ND(0.036)	0.017 J	ND(0.036) [ND(0.041)]	ND(0.037)	0.014 J	ND(0.040)	0.099 JN		ND(24)
Total PCBs	mg/kg	ND(0.036)	0.017 J	ND(0.036) [ND(0.041)]	ND(0.037)	0.014 J	0.061	0.099 J		100 (IDC)
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA		NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA		NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA		NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA		NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA		NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA		NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA		NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA		NA
Total Solids	%	90.8	78.6	92.1 [81.3]	89.6	93.8	82.9	89.9		NA

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	PLANT I27.7 BH01-98 5 - 7 01/16/98	PLANT I27.7 BH01-98 9 - 11 01/16/98	PLANT I27.7 BH02-98 1 - 3 01/16/98	PLANT I27.7 BH02-98 5 - 7 01/16/98	PLANT I27.7 BH02-98 9 - 11 01/16/98	PLANT I27.7 BH03-98 1 - 3 01/16/98	PLANT I27.7 BH03-98 3 - 5 01/16/98	PLANT I27.7 BH03-98 5 - 6.5 01/16/98	PLANT I27.7 BH04-98 1 - 3 01/16/98	PLANT I27.7 BH04-98 5 - 7 01/16/98	PLANT I27.7 BH04-98 7 - 7.25 01/16/98
PCBs												
Aroclor-1242	mg/kg	ND(2.3)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(2.2)	ND(2.3)	ND(0.33)	ND(2.4)
Aroclor-1248	mg/kg	ND(2.3)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(2.2)	ND(2.3)	0.38	11
Aroclor-1254	mg/kg	35	0.40	2.0	1.5	ND(0.33)	0.44	0.37	29	42	0.33	8.8
Aroclor-1260	mg/kg	ND(2.3)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(2.2)	ND(2.3)	ND(0.33)	ND(2.4)
Total PCBs	mg/kg	35 (IDC)	0.40	2.0	1.5	ND(0.33)	0.44	0.37	29 (IDC)	42 (IDC)	0.71	20 (IDC)
Organochlorine Pesticides												
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP												
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides												
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans												
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH												
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous												
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	PLANT I27.7 BH05-98 1 - 3 01/16/98	PLANT I27.7 BH05-98 5 - 7 01/16/98	PLANT I27.7 BH05-98 7 - 9 01/16/98	PLANT I27.7 BH06-98 1 - 3 04/15/98	PLANT I27.7 BH06-98 7 - 9 04/15/98	PLANT I27.7 BH06-98 13 - 15 04/15/98	PLANT I27.7 BH07-98 1 - 3 04/15/98	PLANT I27.7 BH07-98 7 - 9 04/15/98	PLANT I27.7 BH07-98 13 - 15 04/15/98	PLANT I27.7 BH08-98 1 - 3 04/15/98
PCBs											
Aroclor-1242	mg/kg	ND(50)	ND(0.33)	ND(0.33)	ND(17)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(170)	ND(0.33)
Aroclor-1248	mg/kg	ND(50)	ND(0.33)	ND(0.33)	ND(17)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(170)	ND(0.33)
Aroclor-1254	mg/kg	4,900	3.6	3.9	93	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	1,500	0.51
Aroclor-1260	mg/kg	ND(50)	ND(0.33)	ND(0.33)	ND(17)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(170)	ND(0.33)
Total PCBs	mg/kg	4,900 (IDC, IVSICI)	3.6	3.9	93 (IDC)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	1,500 (IDC, IVSICI)	0.51
Organochlorine Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous											
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	PLANT I27.7 BH08-98 7 - 9 04/15/98	Previous Metal Feedstock FS-1 0 - 1 06/12/95	Previous Metal Feedstock FS-2 0 - 1 06/12/95	Previous Metal Feedstock FS-3 0 - 1 06/12/95	Previous Metal Feedstock FS-4 0 - 1 06/12/95	Previous Metal Feedstock FS-5 0 - 1 06/12/95	Previous Metal Feedstock FS-6 0 - 1 06/12/95	Previous Metal Feedstock FS-7 0 - 1 06/12/95	Previous Metal Feedstock FS-8 0 - 1 06/12/95
PCBs										
Aroclor-1242	mg/kg	ND(0.33)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)
Aroclor-1248	mg/kg	ND(0.33)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.25	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)
Aroclor-1254	mg/kg	0.71	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.17) [ND(0.17)]	ND(0.18)	ND(0.17)
Aroclor-1260	mg/kg	ND(0.33)	0.24	0.18	0.36	0.050 J	ND(0.18)	0.020 J [0.020 J]	ND(0.18)	0.020 J
Total PCBs	mg/kg	0.71	0.24	0.18	0.36	0.050 J	0.25	0.020 J [0.020 J]	ND(0.18)	0.020 J
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	92.9	92	89.3	89.7	92.9	97.9 [97.8]	93.4	95.6

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock SB-304 0 - 1 02/08/95	Previous Metal Feedstock SB-304 2 - 4 02/08/95	Previous Metal Feedstock SB-304 6 - 8 02/08/95	Previous Metal Feedstock SB-305 0 - 1 02/08/95	Previous Metal Feedstock SB-305 2 - 4 02/08/95	Previous Metal Feedstock SB-305 6 - 8 02/08/95	Previous Metal Feedstock SB-305 10 - 12 02/08/95	Previous Metal Feedstock SB-352 0 - 2 06/28/95	Primary Settling Pond BH7 0 - 2 03/06/07
PCBs										
Aroclor-1242	mg/kg	ND(0.18)	ND(0.18)	ND(0.21 J)	ND(0.19)	ND(0.18)	ND(0.18 J)	ND(0.23)	ND(0.19)	ND(0.29)
Aroclor-1248	mg/kg	ND(0.18)	ND(0.18)	ND(0.21 J)	ND(0.19)	ND(0.18)	ND(0.18 J)	ND(0.23)	1.5	ND(0.29)
Aroclor-1254	mg/kg	1.6	1.0	ND(0.21 J)	ND(0.19)	0.97	ND(0.18 J)	ND(0.23)	1.5	0.037 J
Aroclor-1260	mg/kg	ND(0.36)	ND(0.35)	ND(0.21 J)	ND(0.19)	ND(0.36)	ND(0.18 J)	ND(0.23)	ND(0.19)	ND(0.29)
Total PCBs	mg/kg	1.6	1.0	ND(0.21)	ND(0.19)	0.97	ND(0.18)	ND(0.23)	3.0	0.037 J
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	--	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	--	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	--	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	92.8	94.2	79.8	88.5	93.2	90	72.7	88.6	90.2

See Notes in Table 15.

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Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Primary Settling Pond BH7 2 - 4 03/06/07	Primary Settling Pond BH8 0 - 2 03/06/07	Primary Settling Pond BH8 2 - 4 03/06/07	Primary Settling Pond NS-1 0 - 14 06/23/95	Railyard Area BH11 0 - 2 03/06/07	Railyard Area BH11 2 - 4 03/06/07	Railyard Area BH12 0 - 2 03/06/07	Railyard Area BH12 2 - 4 03/06/07	Railyard Area NS-RS-4 2.5 - 3 06/13/95
PCBs										
Aroclor-1242	mg/kg	ND(0.35)	ND(0.29)	ND(0.31)	ND(0.24)	ND(0.30)	ND(0.31)	ND(1.9) [ND(1.9)]	ND(0.29)	ND(0.21)
Aroclor-1248	mg/kg	ND(0.35)	ND(0.29)	ND(0.31)	ND(0.24)	ND(0.30)	ND(0.31)	ND(1.9) [ND(1.9)]	ND(0.29)	ND(0.21)
Aroclor-1254	mg/kg	0.17 J	0.014 J	0.033 J	ND(0.24)	0.33	ND(0.31)	ND(1.9) [ND(1.9)]	0.11 J	ND(0.21)
Aroclor-1260	mg/kg	ND(0.35)	ND(0.29)	ND(0.31)	ND(0.24)	ND(0.30)	ND(0.31)	11 [11]	ND(0.29)	ND(0.21)
Total PCBs	mg/kg	0.17 J	0.014 J	0.033 J	ND(0.24)	0.33	ND(0.31)	11 [11]	0.11 J	ND(0.21)
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	--
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	--
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	--
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	91
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	74.4	92	84	67.6	98.9	83.8	98.8 [98.7] [87.8] [98.2]	90.1	79

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-1 0 - 1 06/13/95	Railyard Area RS-2 0 - 1 06/13/95	Railyard Area RS-2-1 0 - 1 06/10/96	Railyard Area RS-2-2 0 - 1 06/10/96	Railyard Area RS-2-3 0 - 1 06/10/96	Railyard Area RS-2-4 0 - 1 06/10/96	Railyard Area RS-2-5 0 - 1 06/10/96	Railyard Area RS-2-6 0 - 1 06/10/96	Railyard Area RS-2-7 0 - 1 06/10/96	Railyard Area RS-2-8 0 - 1 06/10/96
PCBs											
Aroclor-1242	mg/kg	ND(0.70)	ND(3.6)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	mg/kg	ND(0.70)	ND(3.6)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	mg/kg	ND(0.70)	ND(3.6)	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	mg/kg	0.83	3.9	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/kg	0.83	3.9	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous											
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	95	92	86	89	87.7	87.6	84	90.2 [89]	88.8	82.1

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-2A 0 - 1 08/26/05	Railyard Area RS-3 0 - 1 06/13/95	Railyard Area RS-3A 0 - 1 08/26/05	Railyard Area RS-4 0 - 1 06/13/95	Railyard Area RS-5-1 0 - 1 06/10/96	Railyard Area RS-5-2 0 - 1 06/10/96	Railyard Area RS-5-3 0 - 1 06/10/96	Railyard Area RS-5-4 0 - 1 06/10/96	Railyard Area RS-5-5 0 - 1 06/10/96
PCBs										
Aroclor-1242	mg/kg	NA	ND(0.71)	NA	ND(0.17) [ND(0.17)]	ND(0.39)	ND(0.18)	ND(0.19)	ND(1.9)	ND(0.42)
Aroclor-1248	mg/kg	NA	ND(0.71)	NA	ND(0.17) [ND(0.17)]	ND(0.39)	ND(0.18)	ND(0.19)	ND(1.9)	ND(0.42)
Aroclor-1254	mg/kg	NA	ND(0.71)	NA	ND(0.17) [ND(0.17)]	ND(0.79)	ND(0.18)	ND(0.38)	ND(3.7)	ND(0.83)
Aroclor-1260	mg/kg	NA	6.9	NA	ND(0.17) [ND(0.17)]	2.7 J	0.70 J	1.0 J	4.4 J	1.9
Total PCBs	mg/kg	NA	6.9	NA	ND(0.17) [ND(0.17)]	2.7 J	0.70 J	1.0 J	4.4 J	1.9
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	96.3 [96.8]	93.1	96.8	94.4 [94.6]	84.7	89.5	88.7	89.4	80.1

See Notes in Table 15.

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Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-5-6 0 - 1 06/10/96	Railyard Area RS-5-7 0 - 1 06/10/96	Railyard Area RS-5-8 0 - 1 06/10/96	Railyard Area RS-6 0 - 1 06/13/95	Railyard Area RS-7 0 - 1 06/13/95	Railyard Area RS-8 0 - 1 06/13/95	Railyard Area RS-09 0 - 1 08/19/05	Railyard Area RS-10 0 - 1 08/19/05	Railyard Area RS-11 0 - 1 08/19/05
PCBs										
Aroclor-1242	mg/kg	ND(0.38)	0.19 [ND(0.18)]	ND(0.38)	ND(1.7)	ND(0.18)	ND(0.35)	NA	NA	NA
Aroclor-1248	mg/kg	ND(0.38)	ND(0.19) [ND(0.18 J)]	ND(0.38)	ND(1.7)	ND(0.18)	ND(0.35)	NA	NA	NA
Aroclor-1254	mg/kg	ND(0.75)	ND(0.37) [ND(0.37)]	ND(0.75)	ND(1.7)	ND(0.18)	ND(0.70)	NA	NA	NA
Aroclor-1260	mg/kg	4.2 J	1.4 J [1.4]	2.1 J	7.0	ND(0.18)	5.3	NA	NA	NA
Total PCBs	mg/kg	4.2 J	1.6 J [1.4]	2.1 J	7.0	ND(0.18)	5.3	NA	NA	NA
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	88.6	89.1 [90.4]	88.4	95.4	93.4	95.5	89.1	95.9	93.7

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-12 0 - 1 08/19/05	Railyard Area RS-13 0 - 1 08/19/05	Railyard Area RS-14 0 - 1 08/19/05	Railyard Area RS-15 0 - 1 08/19/05	Railyard Area RS-16 0 - 1 08/19/05	Railyard Area RS-17 0 - 1 08/19/05	Railyard Area RS-18 0 - 1 08/19/05	Railyard Area RY-B1 1 07/14/98	Railyard Area RY-B2 1 07/14/98	Saginaw River Area SB-374 9.5 - 10.5 07/24/00
PCBs											
Aroclor-1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.33)	ND(0.33)	ND(0.045)
Aroclor-1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.33)	ND(0.33)	ND(0.045)
Aroclor-1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.33)	ND(0.33)	ND(0.045)
Aroclor-1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.33)	ND(0.33)	ND(0.045)
Total PCBs	mg/kg	NA	NA	NA	NA	NA	NA	NA	ND(0.33)	ND(0.33)	ND(0.045)
Organochlorine Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous											
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	88.6	93.3 [91.7]	97.1	96.2	95.9	92.5	98.5	NA	NA	72.8

See Notes in Table 15.

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Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area SB-375 6.5 - 7.5 07/24/00	Saginaw River Area SB-376 7 - 8 07/25/00	Saginaw River Area SB-377 0 - 0.5 07/25/00	Saginaw River Area SB-377 0.5 - 1 07/25/00	Saginaw River Area SB-379 0 - 0.5 07/25/00	Saginaw River Area SB-379 0.5 - 1 07/25/00	Saginaw River Area SB-382 0 - 0.5 07/25/00	Saginaw River Area SB-382 0.5 - 1 07/25/00
PCBs									
Aroclor-1242	mg/kg	ND(0.046) [ND(0.045)]	ND(0.045)	ND(0.35)	ND(0.17) [ND(0.18)]	ND(0.19)	ND(0.033)	ND(0.34)	ND(0.36)
Aroclor-1248	mg/kg	ND(0.046) [ND(0.045)]	0.056 J	ND(0.35)	ND(0.17) [ND(0.18)]	ND(0.19)	0.32	3.3	3.5
Aroclor-1254	mg/kg	ND(0.046) [ND(0.045)]	ND(0.045)	ND(0.35)	0.38 [ND(0.18)]	0.39	ND(0.033)	ND(0.34)	ND(0.36)
Aroclor-1260	mg/kg	ND(0.046) [ND(0.045)]	ND(0.045)	1.2	0.19 [1.1]	ND(0.19)	ND(0.033)	ND(0.34)	ND(0.36)
Total PCBs	mg/kg	ND(0.046) [ND(0.045)]	0.056 J	1.2	0.57 [1.1]	0.39	0.32	3.3	3.5
Organochlorine Pesticides									
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP									
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides									
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans									
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA
TPH									
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous									
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	72.3 [73.8]	73.5	94	96 [92.8]	88.9	98.6	96.9	90.5

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area SB-383 0 - 0.5 07/25/00	Saginaw River Area SB-384 1 - 0.5 06/15/96	Saginaw River Area SB-383 0.5 - 1 07/25/00	Saginaw River Area SB-384 0 - 0.5 07/25/00	Saginaw River Area SB-384 0.5 - 1 07/25/00	Saginaw River Area SB-385 0 - 0.5 07/25/00	Saginaw River Area SB-385 0.5 - 1 07/25/00	Saginaw River Area SB-386 0 - 0.5 07/25/00	Saginaw River Area SB-386 0.5 - 1 07/25/00
PCBs										
Aroclor-1242	mg/kg	ND(0.034)	41	ND(0.034)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.034)	ND(0.034)
Aroclor-1248	mg/kg	ND(0.034)	ND(10)	ND(0.034)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.034)	ND(0.034)
Aroclor-1254	mg/kg	0.19	ND(10)	0.025 J	0.37	0.57	0.059	ND(0.035)	0.046	0.043
Aroclor-1260	mg/kg	ND(0.034)	ND(10)	ND(0.034)	ND(0.035)	ND(0.035)	0.070	0.038	0.060	0.036
Total PCBs	mg/kg	0.19	41 (IDC)	0.025 J	0.37	0.57	0.13	0.038	0.11	0.079
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	95.9	95.10	98.1	94	95.4	95.2	93.2	96.9	96.9

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area SB-387 0 - 0.5 07/25/00	Saginaw River Area SB-387 0.5 - 1 07/25/00	Saginaw River Area SB-388 0 - 0.5 07/25/00	Saginaw River Area SB-388 0.5 - 1 07/25/00	Secondary Settling Pond NS-SD-10 2 - 3.4 06/20/95	Secondary Settling Pond NS-SD-11 2.3 - 2.9 06/20/95	Secondary Settling Pond NS-SD-12 2.6 - 3.4 06/20/95	Secondary Settling Pond NS-SD-13 3.4 - 4.1 06/20/95	Secondary Settling Pond NS-SD-14 2.3 - 3.1 06/20/95	Secondary Settling Pond NS-SD-15 2.3 - 3.4 06/20/95
PCBs											
Aroclor-1242	mg/kg	ND(0.034)	ND(0.036)	ND(0.034)	ND(0.036)	ND(0.22)	ND(0.22)	ND(0.24)	ND(0.25)	ND(0.21)	ND(0.23)
Aroclor-1248	mg/kg	ND(0.034)	ND(0.036)	ND(0.034)	ND(0.036)	ND(0.22)	ND(0.22)	ND(0.24)	ND(0.25)	ND(0.21)	ND(0.23)
Aroclor-1254	mg/kg	0.23	0.11	0.096	0.045	ND(0.22)	ND(0.22)	ND(0.24)	ND(0.25)	ND(0.21)	ND(0.23)
Aroclor-1260	mg/kg	0.28	0.097	0.071	ND(0.036)	ND(0.22)	ND(0.22)	ND(0.24)	ND(0.25)	ND(0.21)	ND(0.23)
Total PCBs	mg/kg	0.51	0.21	0.17	0.045	ND(0.22)	ND(0.22)	ND(0.24)	ND(0.25)	ND(0.21)	ND(0.23)
Organochlorine Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous											
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	96.9	90.9	95.9	91	75.1	74.8	70	66.6	78.5	71.9

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-16 2.7 - 3.7 06/20/95	Secondary Settling Pond NS-SD-17 2.4 - 3 06/20/95	Secondary Settling Pond NS-SD-18 1 - 14 06/20/95	Secondary Settling Pond NS-SD-19 4 - 5.1 06/20/95	Secondary Settling Pond NS-SD-20 1.9 - 2.5 06/20/95	Secondary Settling Pond NS-SD-21 1.8 - 2.4 06/20/95	Secondary Settling Pond SB-419 0 - 0.5 08/18/00	Secondary Settling Pond SB-420 0 - 0.5 08/18/00	Secondary Settling Pond SB-421 0 - 0.67 08/18/00
PCBs										
Aroclor-1242	mg/kg	ND(0.25)	ND(0.23 J)	ND(0.22) [ND(0.22)]	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.68)	ND(0.44)	ND(0.72)
Aroclor-1248	mg/kg	ND(0.25)	ND(0.23 J)	ND(0.22) [ND(0.22)]	ND(0.22)	ND(0.25)	ND(0.22)	0.11 J	0.064 J	0.16 J
Aroclor-1254	mg/kg	ND(0.25)	ND(0.23 J)	ND(0.22) [ND(0.22)]	ND(0.22)	ND(0.25)	ND(0.22)	ND(0.68)	ND(0.44)	ND(0.72)
Aroclor-1260	mg/kg	ND(0.25)	ND(0.23 J)	ND(0.22) [ND(0.22)]	ND(0.22)	ND(0.25)	ND(0.22)	0.14 J	0.10 J	0.40 J
Total PCBs	mg/kg	ND(0.25)	ND(0.23)	ND(0.22) [ND(0.22)]	ND(0.22)	ND(0.25)	ND(0.22)	0.25 J	0.16 J	0.56 J
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	66	70.9	74.8 [76.2]	74.3	64.8	75.8	48.4	74.5	45.6

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond SB-422 0 - 0.5 08/18/00	Secondary Settling Pond SB-423 0 - 0.67 08/18/00	Secondary Settling Pond SB-424 0 - 0.5 08/18/00	Storm Water Pond NS-7 0 - 4.5 06/21/95	Storm Water Pond NS-8 0 - 10 06/21/95	Storm Water Pond NS-9 0 - 4.5 06/21/95	Storm Water Pond NS-10 0 - 10 06/21/95	UST 7 BBL-MW1 4 - 6 05/02/96	UST 7 BBL-MW2 4 - 6 05/02/96	UST 7 BBL-MW3 6 - 8 05/02/96
PCBs											
Aroclor-1242	mg/kg	ND(0.41)	ND(4.3) [ND(0.87)]	ND(0.41)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.35)	ND(0.19)	ND(0.19)
Aroclor-1248	mg/kg	ND(0.41)	ND(4.3) [ND(0.87)]	ND(0.41)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.35)	ND(0.19)	ND(0.19)
Aroclor-1254	mg/kg	ND(0.41)	ND(4.3) [ND(0.87)]	ND(0.41)	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	1.6	ND(0.19)	ND(0.19)
Aroclor-1260	mg/kg	0.044 J	1.1 J [0.57 J]	0.042 J	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	ND(0.35)	ND(0.19)	ND(0.19)
Total PCBs	mg/kg	0.044 J	1.1 J [0.57 J]	0.042 J	ND(0.21)	ND(0.24)	ND(0.21)	ND(0.22)	1.6	ND(0.19)	ND(0.19)
Organochlorine Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans											
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous											
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	79.7	77 [76]	79.9	79.5	69	76.9	74.4	NA	NA	NA

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 BBL-MW4 4 - 6 05/03/96	UST 7 BBL-MW5 4 - 6 05/03/96	UST 7 BBL-SB1 4 - 6 05/06/96	UST 7 BBL-SB1 8 - 10 05/06/96	UST 7 BBL-SB2 0 - 2 05/07/96	UST 7 BBL-SB2 8 - 10 05/07/96	UST 7 BBL-SB3 6 - 8 05/07/96	UST 7 BBL-SB3 8 - 10 05/07/96	UST 7 BBL-SB4 0 - 2 05/07/96	UST 7 BBL-SB4 8 - 10 05/07/96	UST 7 BBL-SB5 0 - 2 05/06/96	UST 7 BBL-SB5 20 - 22 05/06/96	UST 7 SB-351 0 - 2 06/27/95
PCBs														
Aroclor-1242	mg/kg	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.20 *)	ND(0.19 *)	ND(0.18)	ND(0.21)	ND(0.20)	ND(0.20)	ND(0.037)
Aroclor-1248	mg/kg	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.20 *)	ND(0.19 *)	ND(0.18)	ND(0.21)	ND(0.20)	ND(0.20)	0.11
Aroclor-1254	mg/kg	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.20)	ND(0.19)	ND(0.18)	ND(0.21)	ND(0.20)	ND(0.20)	ND(0.037)
Aroclor-1260	mg/kg	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.20)	ND(0.19)	ND(0.18)	ND(0.21)	0.83	ND(0.20)	ND(0.037)
Total PCBs	mg/kg	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.18)	ND(0.18)	ND(0.19)	ND(0.20)	ND(0.19)	ND(0.18)	ND(0.21)	0.83	ND(0.20)	0.11
Organochlorine Pesticides														
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP														
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Organophosphate Pesticides														
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans														
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH														
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous														
pH	S.U.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89.6

See Notes in Table 15.

Table 7. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Soils, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		UST 8	UST 8	UST 8	UST 8	UST 8	UST 8	UST 8	UST 8	UST 8
Location ID:		UST8-MW1	UST8-MW1	UST8-MW2	UST8-MW3	UST8-SB1	UST8-SB2	UST8-SB3	UST8-SB4	UST8-SB5
Sample Depth (ft BGS):		0 - 2	2 - 4	0 - 2	1 - 3	2 - 3	0 - 1.2	0.7 - 1.1	1.8 - 2.3	4 - 6
Date Collected:	Units	05/25/94	05/25/94	05/25/94	05/31/94	04/01/94	04/01/94	04/01/94	04/01/94	05/31/92
PCBs										
Aroclor-1242	mg/kg	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(4.2)	ND(0.33)	ND(0.33)	ND(0.00033)
Aroclor-1248	mg/kg	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(4.2)	ND(0.33)	ND(0.33)	ND(0.00033)
Aroclor-1254	mg/kg	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(4.2)	0.38	ND(0.47)	ND(0.00033)
Aroclor-1260	mg/kg	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(4.2)	ND(0.33)	ND(0.33)	ND(0.00033)
Total PCBs	mg/kg	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(4.2)	0.38	ND(0.47)	ND(0.00033)
Organochlorine Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organochlorine Pesticides-TCLP										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphate Pesticides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH										
Total Petroleum Hydrocarbons - extractable (DRO)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
pH	S. U.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids	%	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI	LNAPL Assessment Area	LNAPL Assessment Area
								SB-01A 1 - 3 08/23/01	SB-01A 5 - 7 08/23/01
Inorganics									
Aluminum	mg/kg	1,000,000 {B,D}	370,000 {B,DD}	6,900 {SDBL}	{ID}	{NLV}	{NLV}	2,490	2,120
Antimony	mg/kg	49,000	670	4.3	5,900	{NLV}	{NLV}	ND(6.40)	ND(6.40)
Arsenic	mg/kg	2,000	37	23	910	{NLV}	{NLV}	1.60	2.30
Barium	mg/kg	1,000,000 {B,D}	130,000 {B}	1,300 {B}	150,000 {B}	{NLV}	{NLV}	14.0 B	10.2 B
Beryllium	mg/kg	1,000,000 {D}	1,600	51	590	{NLV}	{NLV}	ND(0.530)	ND(0.530)
Cadmium	mg/kg	230,000 {B}	2,100 {B}	6 {B}	2,200 {B}	{NLV}	{NLV}	0.0510 B	0.0630 B
Calcium	mg/kg	--	--	--	--	--	--	10,800	4,160
Chromium	mg/kg	140,000	9,200	30	240	{NLV}	{NLV}	NA	NA
Chromium Total	mg/kg	140,000	9,200	30	240	{NLV}	{NLV}	7.10	43.1 (IDWP)
Cobalt	mg/kg	48,000	9,000	6.8 {SDBL}	5,900	{NLV}	{NLV}	1.40 B	2.00 B
Copper	mg/kg	1,000,000 {B,D}	73,000 {B}	5,800 {B}	59,000 {B}	{NLV}	{NLV}	5.80	15.8
Cyanide (total)	mg/kg	250 {P,R}	250 {P,R}	4 {P,R}	250 {P,R}	{NLV}	{NLV}	ND(0.530)	ND(0.530)
Iron	mg/kg	1,000,000 {B,D}	580,000 {B}	12,000 {SDBL}	{ID}	{NLV}	{NLV}	6,810	19,900 (IDV/P)
Lead	mg/kg	{ID}	900 {B,DD}	700 {B}	44,000 {B}	{NLV}	{NLV}	4.00	3.10
Lead - Coarse Fraction	mg/kg	--	--	--	--	--	--	NA	NA
Lead - Fine Fraction	mg/kg	--	--	--	--	--	--	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	--	--	--	--	--	--	NA	NA
Magnesium	mg/kg	1,000,000 {B,D}	1,000,000 {B,D}	22,000 {B}	2,900,000 {B}	{NLV}	{NLV}	2,080	646
Manganese	mg/kg	180,000 {B}	90,000 {B}	440 {SDBL}	1,500 {B}	{NLV}	{NLV}	289	192
Mercury	mg/kg	47 {B,Z}	580 {B,Z}	1.7 {B,Z}	8,800 {B,Z}	89 {B,Z}	62 {B,Z}	ND(0.110)	ND(0.110)
Nickel	mg/kg	1,000,000 {B,D}	150,000 {B}	100 {B}	16,000 {B}	{NLV}	{NLV}	5.40	38.0
Potassium	mg/kg	--	--	--	--	--	--	488 B	219 B
Selenium	mg/kg	78,000 {B}	9,600 {B}	4 {B}	59,000 {B}	{NLV}	{NLV}	ND(0.530)	0.700
Silver	mg/kg	200,000 {B}	9,000 {B}	13 {B}	2,900 {B}	{NLV}	{NLV}	ND(1.10)	ND(1.10)
Sodium	mg/kg	1,000,000 {D}	1,000,000 {D}	7,000	{ID}	{NLV}	{NLV}	543	315 B
Thallium	mg/kg	15,000 {B}	130 {B}	2.3 {B}	{ID}	{NLV}	{NLV}	0.750 B	ND(1.10)
Vanadium	mg/kg	1,000,000 {D}	5,500 {DD}	990	{ID}	{NLV}	{NLV}	5.20 B	5.20 B
Zinc	mg/kg	1,000,000 {B,D}	630,000 {B}	5,000 {B}	{ID}	{NLV}	{NLV}	16.1	21.0

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-02-SMI 1.2 - 3.2 08/23/01	LNAPL Assessment Area SB-02-SMI 9 - 11 08/23/01	LNAPL Assessment Area SB-03-SMI 0.7 - 2.7 08/23/01	LNAPL Assessment Area SB-03-SMI 4.7 - 6.7 08/23/01	LNAPL Assessment Area SB-04-SMI 0.3 - 2.3 08/23/01
Inorganics						
Aluminum	mg/kg	8,270 (IDWP)	9,060 (IDWP)	5,480 [4,720]	4,650	221
Antimony	mg/kg	ND(6.90)	ND(7.00)	0.890 B [0.980 B]	1.40 B	ND(6.30)
Arsenic	mg/kg	3.40	3.40	4.80 [5.50]	9.30	0.720 B
Barium	mg/kg	50.0	43.1	46.7 [59.1]	40.7	2.80 B
Beryllium	mg/kg	ND(0.570)	ND(0.590)	ND(0.540) [ND(0.540)]	ND(0.570)	ND(0.520)
Cadmium	mg/kg	0.120 B	0.140 B	0.510 B [0.420 B]	ND(1.10)	ND(0.520)
Calcium	mg/kg	74,800	61,800	13,900 [14,900]	12,600	162,000
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	16.6	16.0	23.8 [24.3]	29.8	1.70
Cobalt	mg/kg	6.20	6.20	3.90 B [3.80 B]	7.20 (IDWP)	ND(5.20)
Copper	mg/kg	13.2	10.4	116 [57.2]	27.7	1.70 B
Cyanide (total)	mg/kg	ND(0.570)	ND(0.590)	ND(0.540) [ND(0.540)]	ND(0.570)	ND(0.520)
Iron	mg/kg	13,200 (IDWP)	12,500 (IDWP)	22,300 (IDWP) [23,500 (IDWP)]	93,000 (IDWP)	1,750
Lead	mg/kg	5.50	5.70	29.0 [33.5]	14.7	4.50
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	24,100 (IDWP)	19,200	1,070 [1,110]	4,290	5,020
Manganese	mg/kg	234	310	1,090 (IDWP) [1,170 (IDWP)]	1,020 (IDWP)	125
Mercury	mg/kg	0.0100 B	0.0110 B	0.0510 B [0.0510 B]	0.0280 B	ND(0.100)
Nickel	mg/kg	16.8	15.8	15.0 [13.3]	17.9	3.00 B
Potassium	mg/kg	2,020	1,610	979 [851]	717	89.9 B
Selenium	mg/kg	ND(0.570)	ND(0.590)	0.910 [0.660]	2.20	ND(0.520)
Silver	mg/kg	ND(1.10)	ND(1.20)	ND(1.10) [ND(1.10)]	ND(1.10)	ND(1.00)
Sodium	mg/kg	629	273 B	268 B [234 B]	199 B	283 B
Thallium	mg/kg	ND(1.90)	ND(1.50)	ND(1.10) [ND(1.10)]	ND(2.30)	ND(1.00)
Vanadium	mg/kg	20.4	19.0	11.9 [11.3]	23.6	1.80 B
Zinc	mg/kg	28.9	26.9	62.4 [82.5]	30.2	5.40

See Notes in Table 15.

Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-04-SMI 8.3 - 10 08/23/01	LNAPL Assessment Area SB-350 4 - 6 06/27/95	LNAPL Assessment Area SB-362 0 - 2 09/28/95	LNAPL Assessment Area SB-362 4 - 6 09/28/95	LNAPL Assessment Area SB-362 8 - 10 09/28/95
Inorganics						
Aluminum	mg/kg	10,200 (IDWP)	10,500 (IDWP)	7,120 J (IDWP)	3,030 J	3,510 J
Antimony	mg/kg	ND(7.90)	ND(0.560 N)	9.16 (IDWP)	4.27	0.378
Arsenic	mg/kg	6.30	3.80	3.62	23.6 (IDWP)	3.70
Barium	mg/kg	96.1	76.1	74.1	38.3	32.2
Beryllium	mg/kg	ND(0.660)	0.200 B	ND(0.587)	ND(0.542)	ND(0.627)
Cadmium	mg/kg	0.260 B	0.670 N*	0.128	0.0336	0.125
Calcium	mg/kg	27,900	27,700	35,400 J	15,600 J	8,650 J
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	17.1	78.4 N (IDWP)	52.1 (IDWP)	109 (IDWP)	8.96
Cobalt	mg/kg	7.80 (IDWP)	7.70 (IDWP)	7.05 (IDWP)	12.6 (IDWP)	ND(6.27)
Copper	mg/kg	12.4	63.4 N*	204	661	6.19
Cyanide (total)	mg/kg	0.290 B	0.140	0.430	ND(0.270)	ND(0.310)
Iron	mg/kg	21,200 (IDWP)	31,400 (IDWP)	43,300 (IDWP)	16,200 (IDWP)	8,360
Lead	mg/kg	8.90	9.20 E	1,020 (IDC, IDWP)	93.2	13.2
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	14,300	1,580 *	11,800 J	787 J	4,630 J
Manganese	mg/kg	1,480 (IDWP)	5,690 * (IDWP, IPSIC)	771 J (IDWP)	1,240 J (IDWP)	130 J
Mercury	mg/kg	0.0430 B	ND(0.0600)	0.101	ND(0.0542 J)	ND(0.0627 J)
Nickel	mg/kg	17.3	13.3 E	63.4	105 (IDWP)	8.18
Potassium	mg/kg	886	1,070	1,610	ND(542)	ND(627)
Selenium	mg/kg	0.600 B	1.90	ND(0.587 J)	ND(2.17 J)	ND(0.314 J)
Silver	mg/kg	ND(1.30)	1.00 B	ND(0.587 J)	ND(2.17 J)	ND(0.314 J)
Sodium	mg/kg	174 B	831	ND(587)	ND(542)	ND(627)
Thallium	mg/kg	ND(2.20)	ND(0.560)	ND(0.294)	ND(0.271)	ND(0.314)
Vanadium	mg/kg	21.1	24.7	19.0	13.8	10.7
Zinc	mg/kg	48.8	19.7 EN	58.6	22.1	17.2

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area SB-363 0 - 2 09/28/95	LNAPL Assessment Area SB-363 4 - 6 09/28/95	LNAPL Assessment Area SB-363 8 - 10 09/28/95	LNAPL Assessment Area US-1 0 - 1 06/12/95	LNAPL Assessment Area US-2 0 - 1 06/12/95
Inorganics						
Aluminum	mg/kg	5,020 J	3,080 J	5,190 J	5,040	3,880
Antimony	mg/kg	17.4 (IDWP)	22.3 (IDWP)	0.540	0.405 J	0.500 J
Arsenic	mg/kg	4.67	4.11	1.05	4.54	3.70
Barium	mg/kg	112	51.6	42.8	46.7	40.6
Beryllium	mg/kg	ND(0.558)	ND(0.550)	ND(0.612)	ND(0.629)	ND(0.538)
Cadmium	mg/kg	0.379	0.119	0.0441	0.157	0.141
Calcium	mg/kg	49,000 J	73,600 J	12,800 J	13,300 J	12,100 J
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	77.0 (IDWP)	147 (IDWP)	11.8	49.5 (IDWP)	18.6
Cobalt	mg/kg	6.96 (IDWP)	ND(5.50)	ND(6.12)	ND(6.29)	ND(5.38)
Copper	mg/kg	202	44,700 (IDWP)	7.76	20.3	14.2
Cyanide (total)	mg/kg	0.770	0.810	ND(0.310)	ND(0.310)	ND(0.270)
Iron	mg/kg	34,900 (IDWP)	43,100 (IDWP)	10,700	9,970	11,600
Lead	mg/kg	1,320 (IDC, IDWP)	1,780 (IDC, IDWP)	26.5	16.4 J	14.7 J
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	5,730 J	8,400 J	7,740 J	16,300	10,600
Manganese	mg/kg	1,270 J (IDWP)	452 J (IDWP)	210 J	358 J	399 J
Mercury	mg/kg	0.0616 J	ND(0.0550 J)	ND(0.0612 J)	ND(0.0629)	ND(0.0538)
Nickel	mg/kg	104 (IDWP)	55.7	10.3	11.9	13.1
Potassium	mg/kg	901	ND(550)	809	871	600
Selenium	mg/kg	ND(0.558 J)	ND(0.550 J)	ND(0.306 J)	ND(0.314 J)	ND(0.269 J)
Silver	mg/kg	ND(0.558 J)	1.38	ND(0.306 J)	ND(0.629 J*)	ND(0.538 J*)
Sodium	mg/kg	ND(558)	ND(550)	ND(612)	ND(629)	ND(538)
Thallium	mg/kg	ND(0.279)	ND(0.275)	ND(0.306)	ND(0.314 J)	ND(0.269 J)
Vanadium	mg/kg	14.6	7.46	12.1	16.0	13.1
Zinc	mg/kg	108	5,560 (IDWP)	17.5	49.1	38.7

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	LNAPL Assessment Area US-3 0 - 1 06/12/95	LNAPL Assessment Area US-4 0 - 1 06/12/95	LNAPL Assessment Area US-6 0 - 1 06/12/95	LNAPL Assessment Area US-7 0 - 1 06/12/95	LNAPL Assessment Area US-8 0 - 1 06/12/95
Inorganics						
Aluminum	mg/kg	2,930	1,440	2,680	1,250 J	2,730 J
Antimony	mg/kg	0.556 J	0.721 J	0.624 J	0.319	0.574
Arsenic	mg/kg	2.82	1.94	9.59	2.17	2.41
Barium	mg/kg	24.3	21.1	35.3	8.92	27.7
Beryllium	mg/kg	ND(0.526)	ND(0.528)	ND(0.516)	ND(0.513)	ND(0.507)
Cadmium	mg/kg	0.100	0.270	0.225	0.418	0.288
Calcium	mg/kg	21,900 J	275,000 J	19,400 J	34,100 J	11,900 J
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	15.3	30.0	38.7 (IDWP)	8.87	31.8 (IDWP)
Cobalt	mg/kg	ND(5.26)	ND(5.28)	ND(5.16)	ND(5.13)	ND(5.07)
Copper	mg/kg	18.6	18.7	28.2	11.0	22.9
Cyanide (total)	mg/kg	ND(0.260)	ND(0.260)	ND(0.260)	ND(0.260)	ND(0.250)
Iron	mg/kg	11,300	16,900 (IDWP)	18,800 (IDWP)	6,570	19,600 (IDWP)
Lead	mg/kg	13.0 J	33.5 J	49.2 J	12.6 J	40.8 J
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	8,680	7,090	5,430	7,420	12,600
Manganese	mg/kg	375 J	267 J	985 J (IDWP)	171 J	693 J (IDWP)
Mercury	mg/kg	ND(0.0526)	ND(0.0528)	ND(0.0516)	ND(0.0513)	ND(0.0507)
Nickel	mg/kg	15.1	47.5	28.4	17.7	29.6
Potassium	mg/kg	543	ND(528)	ND(516)	ND(513)	ND(507)
Selenium	mg/kg	ND(0.263 J)	ND(0.528 J*)	ND(0.258 J)	ND(0.256 J)	ND(0.253 J)
Silver	mg/kg	ND(0.526 J*)	ND(0.264 J)	ND(0.258 J)	ND(0.256 J)	ND(0.253 J)
Sodium	mg/kg	ND(526)	ND(528)	ND(516)	ND(513)	ND(507)
Thallium	mg/kg	ND(0.263 J)	ND(0.264 J)	ND(0.258 J)	ND(0.256 J)	ND(0.253 J)
Vanadium	mg/kg	10.7	5.01	8.56	4.10	7.04
Zinc	mg/kg	24.7	54.3	51.8	58.6	61.8

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/Buffer Basin	Parking Lot Area/Buffer Basin	Parking Lot Area/Buffer Basin	Parking Lot Area/Buffer Basin
		BH9 0 - 2 03/06/07	BH9 2 - 4 03/06/07	BH10 0 - 2 03/06/07	BH10 2 - 4 03/06/07
Inorganics					
Aluminum	mg/kg	NA	NA	NA	NA
Antimony	mg/kg	ND(0.170 J)	ND(0.190 J)	ND(0.180 J)	ND(0.170 J)
Arsenic	mg/kg	2.90	2.30	3.20	1.20
Barium	mg/kg	40.3	28.7	125	184
Beryllium	mg/kg	ND(0.170)	0.0910 J	ND(0.180)	ND(0.170)
Cadmium	mg/kg	0.220	0.180	0.450	0.580
Calcium	mg/kg	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA
Chromium Total	mg/kg	18.9	7.10	108 (IDWP)	142 (IDWP)
Cobalt	mg/kg	2.70	2.60	3.60	3.70
Copper	mg/kg	41.0	11.6	26.7	37.6
Cyanide (total)	mg/kg	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA
Lead	mg/kg	31.0	10.4	7.40	7.10
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA
Manganese	mg/kg	965 (IDWP)	255	9,200 (IDWP,IPSIC)	11,900 (IDWP,IPSIC)
Mercury	mg/kg	ND(0.0430)	0.0190 J	ND(0.0450)	ND(0.0420)
Nickel	mg/kg	12.8	6.50	10.5	8.80
Potassium	mg/kg	NA	NA	NA	NA
Selenium	mg/kg	0.200	0.210	ND(0.180)	ND(0.170)
Silver	mg/kg	0.0550 J	ND(0.0930)	0.110	0.280
Sodium	mg/kg	NA	NA	NA	NA
Thallium	mg/kg	0.0330 J	0.0590 J	0.0460 J	0.0310 J
Vanadium	mg/kg	9.30	10.0	30.4	41.0
Zinc	mg/kg	38.2	13.8	18.3	17.9

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/Buffer Basin SB-336 0 - 2 06/23/95	Parking Lot Area/Buffer Basin SB-337 4 - 6 06/23/95	Parking Lot Area/Buffer Basin SB-341 2 - 4 06/26/95	Parking Lot Area/Buffer Basin SB-343 2 - 4 06/26/95
Inorganics					
Aluminum	mg/kg	3,690	3,790	13,000 (IDWP)	4,080
Antimony	mg/kg	0.802	0.949	ND(0.760 N)	0.530 BN
Arsenic	mg/kg	2.37	2.72	6.20	5.10
Barium	mg/kg	33.5	30.1	98.1	25.2
Beryllium	mg/kg	ND(0.530)	ND(0.530)	0.830	ND(0.0500)
Cadmium	mg/kg	0.0990	0.0923	0.870 N*	0.970 N*
Calcium	mg/kg	62,400	17,600	8,670	6,360
Chromium	mg/kg	NA	NA	NA	NA
Chromium Total	mg/kg	21.2	32.5 (IDWP)	31.0 N (IDWP)	31.9 N (IDWP)
Cobalt	mg/kg	ND(5.30)	ND(5.30)	7.30 B (IDWP)	11.1 (IDWP)
Copper	mg/kg	21.7	322	23.5 N*	63.2 N*
Cyanide (total)	mg/kg	0.230	0.160	0.730	ND(0.110)
Iron	mg/kg	21,300 (IDWP)	31,400 (IDWP)	31,700 (IDWP)	47,000 (IDWP)
Lead	mg/kg	4.62	11.7	18.8 E	3.50 E
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA
Magnesium	mg/kg	11,200	1,170	4,770 *	913 *
Manganese	mg/kg	1,180 (IDWP)	1,430 (IDWP)	589 * (IDWP)	1,130 * (IDWP)
Mercury	mg/kg	ND(0.0530)	ND(0.0530)	ND(0.0800)	ND(0.0500)
Nickel	mg/kg	15.5	57.3	18.7 E	24.6 E
Potassium	mg/kg	535	ND(530)	1,030	326 B
Selenium	mg/kg	ND(0.530 *)	ND(0.530 *)	0.450	ND(0.270)
Silver	mg/kg	ND(0.530 *)	ND(0.530 *)	0.300 B	0.360 B
Sodium	mg/kg	ND(530)	ND(530)	672 B	155 B
Thallium	mg/kg	ND(0.265)	ND(0.265)	ND(0.760)	ND(0.530)
Vanadium	mg/kg	10.6	13.0	13.8	13.9
Zinc	mg/kg	13.5	22.8	288 EN	10.9 EN

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lot Area/Buffer Basin SB-344 2 - 4 06/26/95	Parking Lot Area/Buffer Basin SB-348 2 - 4 06/27/95	Parking Lot Area/Buffer Basin SB-349 2 - 4 06/27/95	Parking Lot Area/Buffer Basin SB-354 0 - 2 06/28/95	Parking Lots East of Plant (CTC) PL-1 0.75 - 1.21 08/10/01
Inorganics						
Aluminum	mg/kg	4,520	4,730	2,500	2,780	20,900 (IDWP)
Antimony	mg/kg	ND(0.620 N)	ND(0.610 N)	ND(0.620 N)	0.550 BN	ND(2.50 J)
Arsenic	mg/kg	1.90	2.50	1.80	3.50	9.70
Barium	mg/kg	23.7 B	25.5	14.9 B	23.5	180
Beryllium	mg/kg	0.110 B	0.120 B	0.0600 B	ND(0.0500)	ND(0.200 J)
Cadmium	mg/kg	0.290 BN*	0.410 N*	0.280 BN*	0.500 N*	ND(0.500)
Calcium	mg/kg	3,200	7,850	1,850 *	74,200	83,300
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	12.6 N	36.3 N (IDWP)	8.90 N	12.6 N	190 (IDWP)
Cobalt	mg/kg	4.80 B	4.70 B	4.90 B	3.70 B	61.0 (IDWP)
Copper	mg/kg	13.0 N*	14.7 N*	12.2 N*	33.4 N*	100 J
Cyanide (total)	mg/kg	ND(0.120)	0.170	0.720	ND(0.110)	ND(0.500)
Iron	mg/kg	14,500 (IDWP)	18,600 (IDWP)	12,700 (IDWP)	18,600 (IDWP)	85,400 (IDWP)
Lead	mg/kg	3.50 E	13.7 E	10.9 E	7.40 E	6.60
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	692 *	1,150 *	519 B*	5,880 *	9,100
Manganese	mg/kg	664 * (IDWP)	1,200 * (IDWP)	262 *	474 * (IDWP)	11,600 (IDWP/IPSIC)
Mercury	mg/kg	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0500)	NA
Nickel	mg/kg	6.40 E	10.4 E	7.20 E	10.4 E	80.0
Potassium	mg/kg	372 B	344 B	207 B	412 B	2,600
Selenium	mg/kg	ND(0.310)	0.420	0.320	ND(0.270)	ND(2.50)
Silver	mg/kg	0.250 B	0.440 B	0.250 B	0.220 B	ND(2.50)
Sodium	mg/kg	155 B	170 B	126 B	991	780
Thallium	mg/kg	ND(0.620)	ND(0.610)	ND(0.620)	ND(0.550)	ND(5.00)
Vanadium	mg/kg	12.1	8.00	4.30 B	7.30	45.0
Zinc	mg/kg	11.8 EN	34.2 EN	70.8 EN	14.2 EN	16.0

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Parking Lots East of Plant (CTC) PL-2 0.75 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-3 0.67 - 1.67 08/10/01	Parking Lots East of Plant (CTC) PL-4 0.75 - 1.5 08/10/01	Parking Lots East of Plant (CTC) VE-1 0.75 - 1.58 08/10/01	Parking Lots East of Plant (CTC) VE-2 0.92 - 1.67 08/10/01	Previous Metal Feedstock FS-1 0 - 1 06/12/95
Inorganics							
Aluminum	mg/kg	13,600 (IDWP) [14,900 (IDWP)]	4,300	6,100	1,200	5,400	2,390
Antimony	mg/kg	1.30 J [1.40 J]	1.80 J	1.20 J	ND(0.500 J)	1.00 J	0.953 J
Arsenic	mg/kg	2.90 [3.00]	3.20	4.00	1.60	4.70	2.78
Barium	mg/kg	110 [110]	140	58.0	9.20	67.0	24.2
Beryllium	mg/kg	ND(0.200 J) [ND(0.200 J)]	ND(0.200 J)	ND(0.200 J)	ND(0.200 J)	ND(0.200 J)	ND(0.538)
Cadmium	mg/kg	ND(0.100) [ND(0.100)]	ND(0.100)	0.660	ND(0.100)	0.510	0.356
Calcium	mg/kg	68,900 [87,900]	67,700	13,000	192,000	16,000	13,400 J
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	110 (IDWP) [110 (IDWP)]	200 (IDWP)	40.0 (IDWP)	4.90	28.0	18.9
Cobalt	mg/kg	27.0 (IDWP) [26.0 (IDWP)]	19.0 (IDWP)	74.0 (IDWP)	120 (IDWP)	94.0 (IDWP)	ND(5.38)
Copper	mg/kg	34.0 J [31.0 J]	36.0 J	62.0 J	6.70 J	74.0 J	46.5
Cyanide (total)	mg/kg	ND(0.500) [1.10]	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.270)
Iron	mg/kg	28,100 (IDWP) [35,200 (IDWP)]	50,000 (IDWP)	27,900 (IDWP)	6,900	16,900 (IDWP)	28,600 (IDWP)
Lead	mg/kg	11.0 [12.0]	7.70	74.0	10.0	120	35.5 J
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	5,800 [7,700]	1,800	700	3,400	3,000	2,980
Manganese	mg/kg	6,600 (IDWP,IPSIC) [7,700 (IDWP,IPSIC)]	10,700 (IDWP,IPSIC)	1,800 (IDWP,IPSIC)	150	1,300 (IDWP)	398 J
Mercury	mg/kg	ND(0.100) [ND(0.100)]	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	0.0881
Nickel	mg/kg	22.0 [22.0]	24.0	34.0	3,400 (IDWP)	51.0	19.4
Potassium	mg/kg	1,600 [1,800]	2,400	980	ND(500)	660	ND(538)
Selenium	mg/kg	ND(2.50) [ND(2.50)]	ND(2.50)	ND(0.500)	ND(0.500)	0.960	ND(0.269 J)
Silver	mg/kg	ND(2.50) [ND(2.50)]	ND(2.50)	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.269 J)
Sodium	mg/kg	390 [360]	870	380	200	180	ND(538)
Thallium	mg/kg	ND(5.00) [ND(5.00)]	ND(5.00)	3.60 (IDWP)	1.80	3.40 (IDWP)	ND(0.269 J)
Vanadium	mg/kg	28.0 [31.0]	38.0	12.0	4.20	12.0	7.37
Zinc	mg/kg	19.0 [20.0]	25.0	330	18.0	150	73.5

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock FS-2 0 - 1 06/12/95	Previous Metal Feedstock FS-3 0 - 1 06/12/95	Previous Metal Feedstock FS-4 0 - 1 06/12/95	Previous Metal Feedstock FS-5 0 - 1 06/12/95	Previous Metal Feedstock FS-6 0 - 1 06/12/95
Inorganics						
Aluminum	mg/kg	2,920	4,400	5,630	5,350	3,330 [3,670]
Antimony	mg/kg	0.670 J	0.581 J	ND(0.558 J*)	ND(0.538 J*)	0.482 J [ND(0.256 J)]
Arsenic	mg/kg	4.24	2.44	3.30	1.49 J	1.74 J [1.88]
Barium	mg/kg	19.9	31.0	29.0	29.8	19.1 [19.4]
Beryllium	mg/kg	ND(0.543)	ND(0.560)	ND(0.558)	ND(0.538)	ND(0.511) [ND(0.511)]
Cadmium	mg/kg	0.111	0.197	0.136	0.136	0.0730 [0.0844]
Calcium	mg/kg	31,500 J	13,300 J	41,700 J	6,940 J	5,040 J [3,740 J]
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	36.2 (IDWP)	36.2 (IDWP)	16.8	17.8	11.8 [12.0]
Cobalt	mg/kg	ND(5.43)	ND(5.60)	ND(5.58)	ND(5.38)	ND(5.11) [ND(5.11)]
Copper	mg/kg	27.3	18.6	15.9	13.6	11.0 [10.2]
Cyanide (total)	mg/kg	0.860	ND(0.280)	ND(0.280)	ND(0.270)	ND(0.260) [ND(0.260)]
Iron	mg/kg	34,900 (IDWP)	15,800 (IDWP)	12,500 (IDWP)	12,600 (IDWP)	10,900 [10,000]
Lead	mg/kg	9.58 J	21.5 J	7.94 J	6.63 J	2.91 J [2.78 J]
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	7,010	2,340	3,040	3,750	2,380 [2,230]
Manganese	mg/kg	330 J	1,200 J (IDWP)	290 J	371 J	174 J [280 J]
Mercury	mg/kg	ND(0.0543)	ND(0.0560)	ND(0.0558)	ND(0.0538)	ND(0.0511) [ND(0.0511)]
Nickel	mg/kg	24.6	18.5	11.9	12.4	8.02 [8.34]
Potassium	mg/kg	ND(543)	ND(560)	978	848	ND(511) [520]
Selenium	mg/kg	0.601 J	ND(0.280 J)	ND(0.558 J*)	ND(0.538 J*)	ND(0.255 J) [ND(0.256 J)]
Silver	mg/kg	ND(0.272 J)	ND(0.280 J)	ND(0.558 J*)	ND(0.538 J*)	ND(0.255 J) [ND(0.511 J*)]
Sodium	mg/kg	ND(543)	ND(560)	ND(558)	ND(538)	ND(511) [ND(511)]
Thallium	mg/kg	ND(0.272 J)	ND(0.280 J)	ND(0.279 J)	ND(0.269 J)	ND(0.255 J) [ND(0.256 J)]
Vanadium	mg/kg	7.88	10.6	13.1	13.2	8.22 [8.64]
Zinc	mg/kg	32.3	53.3	29.9	26.5	18.0 [19.7]

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock FS-7 0 - 1 06/12/95	Previous Metal Feedstock FS-8 0 - 1 06/12/95	Previous Metal Feedstock SB-304 0 - 1 02/08/95	Previous Metal Feedstock SB-304 2 - 4 02/08/95	Previous Metal Feedstock SB-304 6 - 8 02/08/95
Inorganics						
Aluminum	mg/kg	2,680	6,750	7,440 J (IDWP)	8,870 (IDWP)	3,100
Antimony	mg/kg	ND(0.268 J)	ND(0.523 J*)	1.09 J	ND(2.65 J)	0.571 J
Arsenic	mg/kg	1.35	2.51	3.62	7.60	2.05
Barium	mg/kg	14.2	36.5	62.1	95.5	20.1
Beryllium	mg/kg	ND(0.536)	ND(0.523)	0.593	0.743	ND(0.626)
Cadmium	mg/kg	ND(0.0268)	0.162	0.485	3.71	0.0595
Calcium	mg/kg	1,470 J	13,100 J	21,800	11,100	2,710
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	10.5	25.9	62.7 (IDWP)	84.4 (IDWP)	12.0
Cobalt	mg/kg	ND(5.36)	ND(5.23)	ND(5.39)	7.91 (IDWP)	ND(6.26)
Copper	mg/kg	9.69	15.2	50.8	155	59.6
Cyanide (total)	mg/kg	ND(0.000270)	ND(0.260)	ND(0.270 J)	0.380	ND(0.310)
Iron	mg/kg	10,600	13,000 (IDWP)	34,800 (IDWP)	87,400 (IDWP)	15,200 (IDWP)
Lead	mg/kg	2.56 J	10.5 J	39.0	279	37.1
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	990	5,580	1,680	1,240	ND(626)
Manganese	mg/kg	162 J	681 J (IDWP)	6,140 (IDWP,IPSIC)	9,190 (IDWP,IPSIC)	1,040 (IDWP)
Mercury	mg/kg	ND(0.0536)	ND(0.0523)	0.155	0.691	ND(0.0626 J)
Nickel	mg/kg	7.18	14.6	14.2	35.7	5.07
Potassium	mg/kg	ND(536)	1,200	740	772	ND(626)
Selenium	mg/kg	ND(0.268 J)	ND(0.523 J*)	NA	ND(2.65 *)	ND(0.313)
Silver	mg/kg	ND(0.268 J)	ND(0.523 J*)	NA	ND(2.65 *)	ND(0.313)
Sodium	mg/kg	ND(536)	ND(523)	ND(539)	5,390	ND(626)
Thallium	mg/kg	ND(0.268 J)	ND(0.262 J)	ND(0.270)	ND(0.265 J)	ND(0.313)
Vanadium	mg/kg	5.89	16.1	17.0	16.0	9.71
Zinc	mg/kg	12.6	38.6	89.8	436	16.8

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock SB-305 0 - 1 02/08/95	Previous Metal Feedstock SB-305 2 - 4 02/08/95	Previous Metal Feedstock SB-305 6 - 8 02/08/95	Previous Metal Feedstock SB-305 10 - 12 02/08/95	Previous Metal Feedstock SB-352 0 - 2 06/28/95
Inorganics						
Aluminum	mg/kg	4,470	11,700 (IDWP)	3,570	NA	4,100
Antimony	mg/kg	ND(0.282 J)	ND(2.68 J*)	ND(1.39 J*)	0.366 J	1.10 BN
Arsenic	mg/kg	1.29	1.30	3.60	3.91 J	5.80
Barium	mg/kg	21.7	83.4	28.0	61.9 J	51.3
Beryllium	mg/kg	ND(0.565)	0.912	ND(0.555)	ND(0.687)	ND(0.0600)
Cadmium	mg/kg	0.0333	0.0740	0.0355	0.131	1.40 N*
Calcium	mg/kg	2,130	55,300	15,900	NA	62,000
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	14.2	125 (IDWP)	77.8 (IDWP)	14.8	43.8 N (IDWP)
Cobalt	mg/kg	ND(5.65)	ND(5.37)	ND(5.55)	ND(6.87)	10.1 (IDWP)
Copper	mg/kg	12.6	13.7	192	15.5	74.2 N*
Cyanide (total)	mg/kg	ND(0.280)	ND(0.270 J)	ND(0.280 J)	ND(0.340)	ND(0.110)
Iron	mg/kg	14,800 (IDWP)	22,700 (IDWP)	26,800 (IDWP)	NA	40,900 (IDWP)
Lead	mg/kg	3.59	18.3	23.5	9.83 J	74.6 E
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	1,410	1,840	ND(555)	NA	1,640 *
Manganese	mg/kg	232	6,820 (IDWP,IPSIC)	3,830 (IDWP,IPSIC)	NA	1,120 * (IDWP)
Mercury	mg/kg	ND(0.0565 J)	ND(0.0537 J)	ND(0.0555 J)	ND(0.0687 J)	0.300
Nickel	mg/kg	7.51	3.54	88.2	12.4	23.3 E
Potassium	mg/kg	ND(565)	1,020	ND(555)	NA	603
Selenium	mg/kg	ND(0.282)	ND(2.68 *)	ND(1.39 *)	ND(0.344 J)	ND(0.280)
Silver	mg/kg	ND(0.282)	ND(2.68 *)	ND(1.39 *)	ND(0.344)	0.660 B
Sodium	mg/kg	ND(565)	ND(537)	ND(555)	NA	896
Thallium	mg/kg	ND(0.282)	ND(0.268 J)	ND(0.278)	ND(0.344 J)	ND(0.560)
Vanadium	mg/kg	8.87	20.0	9.00	19.9	10.6
Zinc	mg/kg	16.5	33.1	12.3	28.6 J	88.6 EN

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Previous Metal Feedstock SB-353 0 - 2 06/28/95	Primary Settling Pond BH7 0 - 2 03/06/07	Primary Settling Pond BH7 2 - 4 03/06/07	Primary Settling Pond BH8 0 - 2 03/06/07	Primary Settling Pond BH8 2 - 4 03/06/07	Primary Settling Pond NS-1 0 - 14 06/23/95
Inorganics							
Aluminum	mg/kg	2,410	NA	NA	NA	NA	13,100 (IDWP)
Antimony	mg/kg	0.670 BN	ND(0.180 J)	ND(0.210 J)	ND(0.170 J)	ND(0.190 J)	ND(0.739 J*)
Arsenic	mg/kg	18.4	2.30	2.90	1.40	1.30	5.10 J
Barium	mg/kg	12.6 B	39.4	49.8	18.2	16.3	128
Beryllium	mg/kg	ND(0.0600)	0.0560 J	0.430	0.0950 J	ND(0.190)	0.739
Cadmium	mg/kg	4.60 N*	0.190	0.270	0.150	0.130	0.464
Calcium	mg/kg	2,680 B	NA	NA	NA	NA	29,400 J
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	142 N (IDWP)	26.3	13.7	11.9	14.3	24.2
Cobalt	mg/kg	36.2 (IDWP)	4.80	3.40	1.30	1.40	9.69 (IDWP)
Copper	mg/kg	246 N*	15.8	13.8	7.00	7.70	18.8
Cyanide (total)	mg/kg	0.120	NA	NA	NA	NA	ND(0.370)
Iron	mg/kg	206,000 (IDWP)	NA	NA	NA	NA	19,000 J (IDWP)
Lead	mg/kg	25.0 E	8.00	21.4	5.90	4.50	13.7
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	494 B*	NA	NA	NA	NA	15,200
Manganese	mg/kg	1,230 * (IDWP)	388	370	163	160	335
Mercury	mg/kg	ND(0.0600)	ND(0.0440)	ND(0.0540)	ND(0.0430)	ND(0.0480)	ND(0.0739 J)
Nickel	mg/kg	113 E (IDWP)	19.0	10.3	7.80	9.80	24.3
Potassium	mg/kg	151 B	NA	NA	NA	NA	1,870
Selenium	mg/kg	ND(0.280)	ND(0.180)	0.500	0.250	0.150 J	ND(0.739 J*)
Silver	mg/kg	0.400 B	0.0670 J	0.130	0.0460 J	0.0370 J	ND(0.739 J*)
Sodium	mg/kg	ND(110)	NA	NA	NA	NA	ND(739)
Thallium	mg/kg	ND(0.550)	0.0650 J	0.0620 J	0.0470 J	0.0310 J	ND(0.370)
Vanadium	mg/kg	15.2 B	12.7	8.50	4.90	5.10	32.3
Zinc	mg/kg	26.3 EN	81.9	43.6	255	96.5	61.2

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area BH11 0 - 2 03/06/07	Railyard Area BH11 2 - 4 03/06/07	Railyard Area BH12 0 - 2 03/06/07	Railyard Area BH12 2 - 4 03/06/07	Railyard Area NS-RS-4 2.5 - 3 06/13/95	Railyard Area RS-1 0 - 1 06/13/95
Inorganics							
Aluminum	mg/kg	NA	NA	NA	NA	NA	3,870
Antimony	mg/kg	0.290 J	ND(0.190 J)	0.190 J [0.840 J]	0.130 J	ND(1.27 J*)	1.12 J
Arsenic	mg/kg	3.70	5.00	4.40 [5.10]	2.20	7.04 J	3.04
Barium	mg/kg	69.2	68.4	158 [95.7]	135	62.2 J	44.4
Beryllium	mg/kg	ND(0.180)	0.240	ND(0.180) [ND(0.180)]	ND(0.180)	ND(0.633)	ND(0.526)
Cadmium	mg/kg	1.30	0.190	3.30 J [1.60 J]	0.320	0.158 J	0.747
Calcium	mg/kg	NA	NA	NA	NA	NA	7,750 J
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	95.8 (IDWP)	21.6	918 (IDWP,IPSIC) [572 (IDWP,IPSIC)]	137 (IDWP)	22.2 J	60.3 (IDWP)
Cobalt	mg/kg	11.5 (IDWP)	8.40 (IDWP)	111 (IDWP) [38.7 (IDWP)]	1.90	ND(6.33)	8.52 (IDWP)
Copper	mg/kg	117	13.6	387 J [120 J]	10.9	12.1 J	53.4
Cyanide (total)	mg/kg	NA	NA	NA	NA	ND(0.320)	ND(0.260)
Iron	mg/kg	NA	NA	NA	NA	NA	45,400 (IDWP)
Lead	mg/kg	93.2	11.0	189 [77.7]	8.80	6.29 J	97.9 J
Lead - Coarse Fraction	mg/kg	143	NA	229 J [48.2 J]	NA	NA	NA
Lead - Fine Fraction	mg/kg	364	NA	731 J [78.0 J]	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	217	NA	400 J [56.8 J]	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	1,340
Manganese	mg/kg	2,540 (IDWP,IPSIC)	191	7,380 (IDWP,IPSIC) [6,770 (IDWP,IPSIC)]	7,470 (IDWP,IPSIC)	NA	955 J (IDWP)
Mercury	mg/kg	0.100	0.0270 J	0.970 J [0.220 J]	ND(0.0440)	ND(0.0633)	0.109
Nickel	mg/kg	64.9	23.0	787 (IDWP) [384 (IDWP)]	5.10	17.5 J	47.5
Potassium	mg/kg	NA	NA	NA	NA	NA	ND(526)
Selenium	mg/kg	0.210	ND(0.190)	ND(0.180) [ND(0.180)]	ND(0.180)	ND(1.27 *)	1.60 J
Silver	mg/kg	0.210	0.100	0.220 J [1.20 J]	0.0810 J	ND(1.27 J*)	ND(0.526 J*)
Sodium	mg/kg	NA	NA	NA	NA	NA	ND(526)
Thallium	mg/kg	0.0530 J	0.130	0.0200 J [0.0270 J]	0.0120 J	ND(0.317)	ND(0.263)
Vanadium	mg/kg	11.5	26.5	33.9 [26.0]	22.0	26.9 J	10.4
Zinc	mg/kg	473	48.0	355 [421]	20.2	37.0	256

See Notes in Table 15.

Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-2 0 - 1 06/13/95	Railyard Area RS-2-1 0 - 1 06/10/96	Railyard Area RS-2-2 0 - 1 06/10/96	Railyard Area RS-2-3 0 - 1 06/10/96	Railyard Area RS-2-4 0 - 1 06/10/96	Railyard Area RS-2-5 0 - 1 06/10/96	Railyard Area RS-2-6 0 - 1 06/10/96	Railyard Area RS-2-7 0 - 1 06/10/96
Inorganics									
Aluminum	mg/kg	6,630	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	5.89 J (IDWP)	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	11.8	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	247	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	0.543	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	6.38 (IDWP)	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	31,300 J	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	1,110 (IDWP,IPSIC)	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	143 (IDWP)	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	274	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	ND(0.270)	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	12,000	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	530 J	279 J	237 J	335 J	456 J	769 J (IDWP)	214 J [1,370 J (IDC, IDWP)]	159 J
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	6,580	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	3,320 J (IDWP,IPSIC)	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	0.546	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	1,010 (IDWP)	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	944	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	4.31 J (IDWP)	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	ND(1.36 J*)	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	ND(543)	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	ND(0.272)	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	32.1	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	2,630	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-2-8 0 - 1 06/10/96	Railyard Area RS-2A 0 - 1 08/26/05	Railyard Area RS-3 0 - 1 06/13/95	Railyard Area RS-3A 0 - 1 08/26/05	Railyard Area RS-4 0 - 1 06/13/95	Railyard Area RS-6 0 - 1 06/13/95
Inorganics							
Aluminum	mg/kg	NA	NA	8,000 (IDWP)	NA	3,710 J [2,920 J]	7,160 J (IDWP)
Antimony	mg/kg	NA	NA	ND(1.34 J*)	NA	ND(1.06 J*) [ND(1.06 J*)]	2.11 J
Arsenic	mg/kg	NA	NA	6.93	NA	6.00 J [7.02 J]	6.48 J
Barium	mg/kg	NA	NA	117	NA	76.8 J [82.1 J]	85.7 J
Beryllium	mg/kg	NA	NA	0.591	NA	0.636 J [0.740 J]	ND(0.524 J)
Cadmium	mg/kg	NA	NA	2.46	NA	0.775 J [0.812 J]	1.19 J
Calcium	mg/kg	NA	NA	34,600 J	NA	56,900 J [24,600 J]	30,400 J
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	90.2 (IDWP) [141 (IDWP)]	273 (IDWP,IPSIC)	180 (IDWP)	62.8 J (IDWP) [82.3 J (IDWP)]	205 J (IDWP)
Cobalt	mg/kg	NA	NA	44.6 (IDWP)	NA	15.6 (IDWP) [15.8 (IDWP)]	36.5 (IDWP)
Copper	mg/kg	NA	NA	114	NA	27.3 J [31.4 J]	75.6 J
Cyanide (total)	mg/kg	NA	NA	ND(0.270)	NA	ND(0.260) [ND(0.260)]	0.270
Iron	mg/kg	NA	NA	43,000 (IDWP)	NA	14,400 J (IDWP) [22,400 J (IDWP)]	50,100 J (IDWP)
Lead	mg/kg	209 J	NA	161 J	NA	30.1 J [29.8 J]	98.1 J
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	4,180	NA	5,340 J [3,390 J]	6,340 J
Manganese	mg/kg	NA	NA	5,030 J (IDWP,IPSIC)	NA	300 [463 (IDWP)]	2,020 (IDWP,IPSIC)
Mercury	mg/kg	NA	NA	0.367	NA	ND(0.0530) [0.102]	0.143
Nickel	mg/kg	NA	NA	271 (IDWP)	NA	71.8 J [71.1 J]	198 J (IDWP)
Potassium	mg/kg	NA	NA	1,150	NA	748 [ND(528)]	1,210
Selenium	mg/kg	NA	NA	ND(1.34 J*)	NA	2.00 [2.35]	ND(1.05 *)
Silver	mg/kg	NA	NA	ND(1.34 J*)	NA	ND(1.06 J*) [ND(1.06 J*)]	ND(1.05 J*)
Sodium	mg/kg	NA	NA	ND(537)	NA	ND(530) [ND(528)]	ND(524)
Thallium	mg/kg	NA	NA	ND(0.268)	NA	ND(0.265) [ND(0.264)]	ND(0.262 J)
Vanadium	mg/kg	NA	NA	24.5	NA	16.7 J [17.8 J]	22.5 J
Zinc	mg/kg	NA	NA	448	NA	111 [119]	306

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-7 0 - 1 06/13/95	Railyard Area RS-8 0 - 1 06/13/95	Railyard Area RS-09 0 - 1 08/19/05	Railyard Area RS-10 0 - 1 08/19/05	Railyard Area RS-11 0 - 1 08/19/05	Railyard Area RS-12 0 - 1 08/19/05
Inorganics							
Aluminum	mg/kg	1,280 J	5,510 J	NA	NA	NA	NA
Antimony	mg/kg	1.76 J	1.30 J	NA	NA	NA	NA
Arsenic	mg/kg	6.90 J	8.98 J	NA	NA	NA	NA
Barium	mg/kg	50.3 J	64.9 J	NA	NA	NA	NA
Beryllium	mg/kg	0.857 J	ND(0.524 J)	NA	NA	NA	NA
Cadmium	mg/kg	0.0932 J	0.930 J	NA	NA	NA	NA
Calcium	mg/kg	2,540 J	27,400 J	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	66.3 J (IDWP)	141 J (IDWP)	NA	NA	NA	NA
Cobalt	mg/kg	9.53 (IDWP)	17.0 (IDWP)	NA	NA	NA	NA
Copper	mg/kg	55.6 J	64.3 J	NA	NA	NA	NA
Cyanide (total)	mg/kg	0.480	0.310	NA	NA	NA	NA
Iron	mg/kg	79,100 J (IDWP)	28,000 J (IDWP)	NA	NA	NA	NA
Lead	mg/kg	6.91 J	72.2 J	NA	NA	NA	NA
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	R	4,010 J	NA	NA	NA	NA
Manganese	mg/kg	551 (IDWP)	2,060 (IDWP, IPSIC)	1,560 (IDWP, IPSIC)	449 (IDWP)	3,650 (IDWP, IPSIC)	2,310 (IDWP, IPSIC)
Mercury	mg/kg	ND(0.0535)	0.0709	NA	NA	NA	NA
Nickel	mg/kg	49.1 J	152 J (IDWP)	NA	NA	NA	NA
Potassium	mg/kg	ND(535)	706	NA	NA	NA	NA
Selenium	mg/kg	3.34	ND(1.05 *)	NA	NA	NA	NA
Silver	mg/kg	ND(3.34 J*)	ND(1.05 J*)	NA	NA	NA	NA
Sodium	mg/kg	1,550	ND(524)	NA	NA	NA	NA
Thallium	mg/kg	ND(0.268)	ND(0.262)	NA	NA	NA	NA
Vanadium	mg/kg	11.2 J	23.9 J	NA	NA	NA	NA
Zinc	mg/kg	42.1	566	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Railyard Area RS-13 0 - 1 08/19/05	Railyard Area RS-14 0 - 1 08/19/05	Railyard Area RS-15 0 - 1 08/19/05	Railyard Area RS-16 0 - 1 08/19/05	Railyard Area RS-17 0 - 1 08/19/05	Railyard Area RS-18 0 - 1 08/19/05	Saginaw River Area SB-374 9.5 - 10.5 07/24/00
Inorganics								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	7.080 (IDWP)
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	ND(8.20 J)
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	3.20 J
Barium	mg/kg	NA	NA	NA	NA	NA	NA	56.6
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	ND(0.690)
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	0.630 B
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	36,000
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA	NA	14.9
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	5.50 B
Copper	mg/kg	NA	NA	NA	NA	NA	NA	10.4
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA	NA	ND(0.690)
Iron	mg/kg	NA	NA	NA	NA	NA	NA	16,500 (IDWP)
Lead	mg/kg	NA	NA	NA	NA	NA	NA	5.60
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	17,300
Manganese	mg/kg	2,360 (IDWP,IPSIC) [1,530 (IDWP,IPSIC)]	2,380 (IDWP,IPSIC)	329	632 (IDWP)	5,470 (IDWP,IPSIC)	25.0	450 (IDWP)
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	0.230 J
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	13.2
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	1,100
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	0.760
Silver	mg/kg	NA	NA	NA	NA	NA	NA	ND(1.40)
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	ND(687)
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	ND(1.40)
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	17.2
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	35.9 J

See Notes in Table 15.

Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area SB-375 6.5 - 7.5 07/24/00	Saginaw River Area SB-376 7 - 8 07/25/00	Saginaw River Area SB-377 0 - 0.5 07/25/00	Saginaw River Area SB-377 0.5 - 1 07/25/00	Saginaw River Area SB-379 0 - 0.5 07/25/00
Inorganics						
Aluminum	mg/kg	5,090 [4,160]	5,500	13,700 (IDWP)	4,060 [11,400 (IDWP)]	9,030 (IDWP)
Antimony	mg/kg	ND(8.30 J) [ND(8.10 J)]	ND(8.20 J)	ND(6.40 J)	ND(6.30 J) [ND(6.50 J)]	ND(6.80 J)
Arsenic	mg/kg	3.90 [3.80 J]	3.20	4.90 J	3.40 J [4.40]	3.60 J
Barium	mg/kg	34.1 [31.9]	44.8	81.1	21.2 [83.0]	55.1
Beryllium	mg/kg	ND(0.690) [ND(0.680)]	ND(0.680)	ND(0.530)	ND(0.520) [ND(0.540)]	ND(0.560)
Cadmium	mg/kg	ND(0.690) [0.380 B]	ND(0.680)	0.640	1.00 [0.0700 B]	0.570
Calcium	mg/kg	37,400 [33,500]	31,600	16,500	17,100 [16,200]	17,300
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	10.4 J [9.70]	11.5 J	24.6	31.9 (IDWP) [39.1 J (IDWP)]	36.7 (IDWP)
Cobalt	mg/kg	4.50 B [3.90 B]	4.00 B	7.10 (IDWP)	3.00 B [6.30]	4.70 B
Copper	mg/kg	7.10 [6.20]	7.60	32.6	27.6 [17.9]	16.0
Cyanide (total)	mg/kg	ND(0.690) [ND(0.680)]	ND(0.680)	ND(0.530)	ND(0.520) [ND(0.540)]	ND(0.560)
Iron	mg/kg	10,000 [10,200]	9,280	18,800 (IDWP)	38,400 (IDWP) [18,200 (IDWP)]	17,500 (IDWP)
Lead	mg/kg	ND(3.90) [3.40]	4.30	11.7	2.60 [11.8]	9.60
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	12,900 [11,800]	13,700	7,380	1,190 [5,330]	3,650
Manganese	mg/kg	476 J (IDWP) [360]	266 J	527 (IDWP)	3,510 (IDWP,IPSIC) [1,690 J (IDWP,IPSIC)]	1,350 (IDWP)
Mercury	mg/kg	ND(0.140) [0.0340 BJ]	ND(0.140)	0.0280 BJ	ND(0.100 J) [ND(0.110)]	0.0540 BJ
Nickel	mg/kg	9.10 [8.40]	9.00	22.2	25.4 [17.9]	15.6
Potassium	mg/kg	907 [631 B]	942	2,210	381 B [1,450]	1,180
Selenium	mg/kg	0.530 B [0.600 B]	1.20	1.30	2.90 [0.680]	1.20
Silver	mg/kg	ND(1.00) [ND(1.40)]	ND(1.40)	ND(1.10)	0.220 B [ND(1.10)]	ND(1.10)
Sodium	mg/kg	ND(692) [ND(678)]	ND(681)	ND(532)	ND(521) [ND(539)]	ND(563)
Thallium	mg/kg	ND(1.40) [0.700 B]	ND(1.40)	ND(1.10)	ND(1.00) [ND(1.10)]	ND(1.10)
Vanadium	mg/kg	13.3 [11.4]	14.2	29.0	9.70 [25.6]	19.9
Zinc	mg/kg	31.5 J [23.7 J]	31.7 J	39.3 J	ND(9.20) [39.8 J]	40.6 J

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area SB-379 0.5 - 1 07/25/00	Saginaw River Area SB-382 0 - 0.5 07/25/00	Saginaw River Area SB-382 0.5 - 1 07/25/00	Saginaw River Area SB-383 0 - 0.5 07/25/00	Saginaw River Area SB-383 0.5 - 1 07/25/00	Saginaw River Area SB-384 0 - 0.5 07/25/00	Saginaw River Area SB-384 0.5 - 1 07/25/00
Inorganics								
Aluminum	mg/kg	4,390	9,170 (IDWP)	10,500 (IDWP)	3,350	3,730	8,770 (IDWP)	6,030
Antimony	mg/kg	ND(6.10 J)	ND(6.20 J)	0.920 BJ	ND(6.30 J)	ND(6.10 J)	ND(6.40 J)	ND(6.30 J)
Arsenic	mg/kg	1.40 J	5.90 J	6.10 J	1.70 J	1.30 J	4.50 J	3.20 J
Barium	mg/kg	27.1	70.2	83.0	14.7 B	9.60 B	50.7	39.6
Beryllium	mg/kg	ND(0.510)	ND(0.520)	ND(0.550)	ND(0.520)	ND(0.510)	ND(0.530)	ND(0.520)
Cadmium	mg/kg	0.310 B	0.870	1.20	0.290 B	0.140 B	0.550	0.630
Calcium	mg/kg	14,300	26,900	33,400	10,500	2,490	13,000	108,000
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	31.5 (IDWP)	42.7 (IDWP)	65.0 (IDWP)	8.40	3.90	24.7	42.6 (IDWP)
Cobalt	mg/kg	1.30 B	4.90 B	5.10 B	1.30 B	1.10 B	4.00 B	2.40 B
Copper	mg/kg	5.60	20.0	32.1	8.80	ND(3.00)	15.4	16.0
Cyanide (total)	mg/kg	ND(0.510)	ND(0.520)	ND(0.550)	ND(0.520)	ND(0.510)	ND(0.530)	ND(0.520)
Iron	mg/kg	9,800	20,300 (IDWP)	26,500 (IDWP)	7,030	4,710	13,900 (IDWP)	15,300 (IDWP)
Lead	mg/kg	3.50	37.7	46.9	15.2	2.60	15.5	14.5
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	588	5,780	5,330	1,130	847	4,320	3,680
Manganese	mg/kg	2,250 (IDWP,IPSIK)	2,190 (IDWP,IPSIK)	3,450 (IDWP,IPSIK)	225	156	738 (IDWP)	2,070 (IDWP,IPSIK)
Mercury	mg/kg	ND(0.100 J)	0.0580 BJ	0.0800 BJ	0.0230 BJ	0.0110 BJ	0.0510 BJ	0.0360 BJ
Nickel	mg/kg	3.50 B	16.8	21.0	ND(5.10)	ND(4.10)	13.7	16.4
Potassium	mg/kg	374 B	1,490	1,400	368 B	356 B	1,550	742
Selenium	mg/kg	0.560	1.50	2.00	0.350 B	ND(0.510)	0.980	0.880
Silver	mg/kg	0.180 B	ND(1.00)	0.330 B	ND(1.00)	ND(1.00)	ND(1.10)	0.180 B
Sodium	mg/kg	ND(507)	ND(516)	ND(552)	ND(521)	ND(510)	ND(532)	ND(524)
Thallium	mg/kg	ND(1.00)	ND(1.00)	ND(1.10)	ND(1.00)	ND(1.00)	ND(1.10)	ND(1.00)
Vanadium	mg/kg	8.90	20.1	21.1	4.80 B	4.40 B	17.8	12.8
Zinc	mg/kg	ND(6.80)	73.1 J	78.2 J	27.9 J	ND(7.50)	46.8 J	26.4 J

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area SB-385 0 - 0.5 07/25/00	Saginaw River Area SB-385 0.5 - 1 07/25/00	Saginaw River Area SB-386 0 - 0.5 07/25/00	Saginaw River Area SB-386 0.5 - 1 07/25/00	Saginaw River Area SB-387 0 - 0.5 07/25/00	Saginaw River Area SB-387 0.5 - 1 07/25/00
Inorganics							
Aluminum	mg/kg	4,740	4,040	3,710	3,490	4,430	3,530
Antimony	mg/kg	ND(6.30 J)	ND(6.40 J)	ND(6.20 J)	ND(6.20 J)	ND(6.20 J)	ND(6.60 J)
Arsenic	mg/kg	4.20 J	2.50	3.20	2.50	3.80	2.30
Barium	mg/kg	38.3	52.3	37.2	22.1	39.9	25.7
Beryllium	mg/kg	ND(0.530)	ND(0.540)	0.0600 B	ND(0.520)	ND(0.520)	ND(0.550)
Cadmium	mg/kg	0.530	0.580	ND(0.520)	ND(0.520)	0.340 B	ND(0.550)
Calcium	mg/kg	15,900	55,300	13,000	16,600	13,300	10,500
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	15.4	12.2 J	25.1 J	7.70 J	21.6 J	43.9 J (IDWP)
Cobalt	mg/kg	3.20 B	2.20 B	2.20 B	2.20 B	3.10 B	1.70 B
Copper	mg/kg	18.0	10.6	13.5	5.60	28.7	16.7
Cyanide (total)	mg/kg	ND(0.530)	ND(0.540)	ND(0.520)	ND(0.520)	ND(0.520)	ND(0.550)
Iron	mg/kg	10,900	6,980	10,500	5,930	15,000 (IDWP)	12,400 (IDWP)
Lead	mg/kg	26.3	120	45.1	8.50	61.5	9.00
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	4,900	10,900	2,270	4,420	3,530	1,040
Manganese	mg/kg	276	384 J	1,180 J (IDWP)	173 J	686 J (IDWP)	2,200 J (IDWP,IPSIC)
Mercury	mg/kg	0.0640 BJ	ND(0.110)	0.160	ND(0.100)	ND(0.100)	ND(0.110)
Nickel	mg/kg	ND(11.1)	7.40	7.70	6.50	13.0	14.1
Potassium	mg/kg	912	646	515 B	633	686	392 B
Selenium	mg/kg	0.680	0.610	0.330 B	0.360 B	0.510 B	0.490 B
Silver	mg/kg	ND(1.10)	ND(1.10)	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.10)
Sodium	mg/kg	ND(525)	ND(536)	ND(516)	ND(516)	ND(516)	ND(550)
Thallium	mg/kg	ND(1.10)	0.590 B	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.10)
Vanadium	mg/kg	11.5	9.30	9.50	9.00	10.5	9.40
Zinc	mg/kg	56.0 J	50.1 J	57.9 J	16.2 J	101 J	12.0

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area SB-388 0 - 0.5 07/25/00	Saginaw River Area SB-388 0.5 - 1 07/25/00	Saginaw River Area VSB378FLOOR 2 09/13/04	Saginaw River Area VSB378FLOOR 2 - 3 09/22/04	Saginaw River Area VSB378FLOORA 1 08/30/04	Saginaw River Area VSB378LOORB 1 08/30/04
Inorganics							
Aluminum	mg/kg	7,610 (IDWP)	3,670	NA	NA	NA	NA
Antimony	mg/kg	ND(6.30 J)	ND(6.60 J)	NA	NA	NA	NA
Arsenic	mg/kg	6.10	5.70	NA	NA	NA	NA
Barium	mg/kg	76.3	37.9	NA	NA	NA	NA
Beryllium	mg/kg	ND(0.520)	ND(0.550)	NA	NA	NA	NA
Cadmium	mg/kg	0.210 B	0.120 B	NA	NA	NA	NA
Calcium	mg/kg	30,400	33,100	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	65.7 J (IDWP)	22.7 J	NA	NA	NA	NA
Cobalt	mg/kg	3.80 B	2.90 B	NA	NA	NA	NA
Copper	mg/kg	28.2	15.3	NA	NA	NA	NA
Cyanide (total)	mg/kg	ND(0.520)	ND(0.550)	NA	NA	NA	NA
Iron	mg/kg	20,900 (IDWP)	9,800	NA	NA	NA	NA
Lead	mg/kg	27.4	11.3	NA	NA	NA	NA
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	5,800	8,370	NA	NA	NA	NA
Manganese	mg/kg	2,940 J (IDWP,IPSIC)	909 J (IDWP)	6,200 (IDWP,IPSIC)	21,500 (IDWP,IPSIC)	9,550 (IDWP,IPSIC)	4,000 (IDWP,IPSIC)
Mercury	mg/kg	ND(0.100)	ND(0.110)	NA	NA	NA	NA
Nickel	mg/kg	14.0	8.40	NA	NA	NA	NA
Potassium	mg/kg	1,120	515 B	NA	NA	NA	NA
Selenium	mg/kg	0.970	ND(0.550)	NA	NA	NA	NA
Silver	mg/kg	0.190 B	ND(1.10)	NA	NA	NA	NA
Sodium	mg/kg	ND(521)	ND(550)	NA	NA	NA	NA
Thallium	mg/kg	0.550 B	ND(1.10)	NA	NA	NA	NA
Vanadium	mg/kg	17.2	9.00	NA	NA	NA	NA
Zinc	mg/kg	54.1 J	37.5 J	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area VSB378NORHTEASTWALLE 0 - 1 09/13/04	Saginaw River Area VSB378NORTHEASTWALLA 0 - 1 08/30/04	Saginaw River Area VSB378NORTHEASTWALLB 0 - 1 08/30/04	Saginaw River Area VSB378NORTHEASTWALLC 0 - 1 08/30/04	Saginaw River Area VSB378NORTHEASTWALLD 0 - 1 09/13/04
Inorganics						
Aluminum	mg/kg	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA
Manganese	mg/kg	1,130 (IDWP)	10,300 (IDWP,IPSIC)	688 (IDWP)	5,830 (IDWP,IPSIC)	2,350 (IDWP,IPSIC)
Mercury	mg/kg	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area VSB378NORTHFLOORA 1 08/30/04	Saginaw River Area VSB378NORTHFLOORB 1 08/30/04	Saginaw River Area VSB378NORTHFLOORC 1 08/30/04	Saginaw River Area VSB378NORTHFLOORD 2 - 3 09/22/04	Saginaw River Area VSB378NORTHFLOORE 2 - 3 09/22/04
Inorganics						
Aluminum	mg/kg	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA
Manganese	mg/kg	14,300 (IDWP,IPSIC)	3,920 (IDWP,IPSIC)	1,220 (IDWP)	26,600 (IDWP,IPSIC)	13,200 (IDWP,IPSIC) 16,900 (IDWP,IPSIC)
Mercury	mg/kg	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area VSB378NORTHWESTWALL 0 - 1 09/13/04	Saginaw River Area VSB378NORTHWESTWALLA 0 - 1 08/30/04	Saginaw River Area VSB378NORTHWESTWALLB 0 - 1 08/30/04	Saginaw River Area VSB378NORTHWESTWALLC 0 - 1 08/30/04	Saginaw River Area VSB378SOUTHFLOOR 1 08/30/04
Inorganics						
Aluminum	mg/kg	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA
Manganese	mg/kg	848 (IDWP)	299	3,470 (IDWP,IPSIC)	547 (IDWP) [684 (IDWP)]	9,070 (IDWP,IPSIC)
Mercury	mg/kg	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area VSB378SOUTHLOORB 1 08/30/04	Saginaw River Area VSB378SOUTHLOORC 1 08/30/04	Saginaw River Area VSB378SOUTHLOORD 2 - 3 09/22/04	Saginaw River Area VSB378SOUTHLOOR E 2 - 3 09/22/04	Saginaw River Area VSB378SOUTHWALLA 0 - 1 08/30/04
Inorganics						
Aluminum	mg/kg	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA
Manganese	mg/kg	12,900 (IDWP,IPSIC) [11,100 (IDWP,IPSIC)]	559 (IDWP)	13,600 (IDWP,IPSIC)	17,200 (IDWP,IPSIC)	16,000 (IDWP,IPSIC)
Mercury	mg/kg	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area VSB378SOUTHWALLB 0 - 1 08/30/04	Saginaw River Area VSB378SOUTHWALLC 0 - 1 08/30/04	Saginaw River Area VSB378SOUTHWALLD 0 - 1 09/13/04	Saginaw River Area VSB378SOUTHWALLE 0 - 1 09/13/04	Saginaw River Area VSB378SOUTHWALLA 0 - 1 08/30/04
Inorganics						
Aluminum	mg/kg	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA
Manganese	mg/kg	3,990 (IDWP,IPSIC)	1,230 (IDWP)	1,830 (IDWP,IPSIC)	2,710 (IDWP,IPSIC)	342
Mercury	mg/kg	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Saginaw River Area VSB378SOUTHWESTWALLB 0 - 1 08/30/04	Saginaw River Area VSB378SOUTHWESTWALLC 0 - 1 08/30/04	Secondary Settling Pond NS-SD-10 2 - 3.4 06/20/95	Secondary Settling Pond NS-SD-11 2.3 - 2.9 06/20/95	Secondary Settling Pond NS-SD-12 2.6 - 3.4 06/20/95	Secondary Settling Pond NS-SD-13 3.4 - 4.1 06/20/95	Secondary Settling Pond NS-SD-14 2.3 - 3.1 06/20/95
Inorganics								
Aluminum	mg/kg	NA	NA	6,240	13,400 (IDWP)	11,000 (IDWP)	11,300 (IDWP)	6,730
Antimony	mg/kg	NA	NA	ND(0.333 J)	0.729 J	ND(0.714 J)	ND(0.751 J)	ND(0.637 J*)
Arsenic	mg/kg	NA	NA	2.50 J	9.89 J	4.00	3.93 J	3.77
Barium	mg/kg	NA	NA	56.8	120	104	115	63.6
Beryllium	mg/kg	NA	NA	ND(0.666)	0.735	ND(0.714)	0.751	ND(0.637)
Cadmium	mg/kg	NA	NA	0.0759	0.263	0.298	0.205	0.217 J
Calcium	mg/kg	NA	NA	40,200	32,100	20,900	38,700 J	37,600
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	13.2	25.8	20.4	22.8	13.7
Cobalt	mg/kg	NA	NA	ND(6.66)	9.76 (IDWP)	8.79 (IDWP)	9.69 (IDWP)	ND(6.37)
Copper	mg/kg	NA	NA	8.59	18.0	16.0	20.2	11.2 J
Cyanide (total)	mg/kg	NA	NA	ND(0.330)	0.460 J	ND(0.360)	ND(0.380)	ND(0.320 J)
Iron	mg/kg	NA	NA	13,600 (IDWP)	23,700 (IDWP)	20,100 (IDWP)	16,400 (IDWP)	16,400 (IDWP)
Lead	mg/kg	NA	NA	3.89	9.55	8.29	10.2	5.15
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	17,500	19,300	12,100	19,100	20,200 J
Manganese	mg/kg	586 (IDWP)	2,360 (IDWP, IPSIC)	462 (IDWP)	845 (IDWP)	627 (IDWP)	324	717 (IDWP)
Mercury	mg/kg	NA	NA	ND(0.0666)	ND(0.0668)	ND(0.0714)	0.0881	ND(0.0637 J)
Nickel	mg/kg	NA	NA	12.5	26.0	21.8	24.8	13.7
Potassium	mg/kg	NA	NA	1,030	2,150	1,050	1,020	846
Selenium	mg/kg	NA	NA	ND(0.333 J)	0.901 J	ND(0.714 *)	ND(0.751 J)	ND(0.637 *)
Silver	mg/kg	NA	NA	ND(0.333 J)	ND(0.668 J)	ND(0.714 J)	ND(0.751 J)	ND(0.637 J*)
Sodium	mg/kg	NA	NA	ND(666)	ND(668)	ND(714)	ND(751)	ND(637)
Thallium	mg/kg	NA	NA	ND(0.333)	ND(0.334)	ND(0.357)	ND(0.375)	ND(0.318)
Vanadium	mg/kg	NA	NA	17.0	33.4	25.6	30.1	17.3
Zinc	mg/kg	NA	NA	34.0	67.6	56.1	59.5	38.8 J

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-15 2.3 - 3.4 06/20/95	Secondary Settling Pond NS-SD-16 2.7 - 3.7 06/20/95	Secondary Settling Pond NS-SD-17 2.4 - 3 06/20/95	Secondary Settling Pond NS-SD-18 1 - 14 06/20/95	Secondary Settling Pond NS-SD-19 4 - 5.1 06/20/95
Inorganics						
Aluminum	mg/kg	12,400 (IDWP)	5,970	15,100 (IDWP)	7,260 (IDWP) [5,840]	10,800 (IDWP)
Antimony	mg/kg	0.787 J	ND(0.379 J)	0.832 J	ND(0.668 J*) [ND(0.656 J*)]	ND(0.673 J*)
Arsenic	mg/kg	3.48 J	6.40 J	2.29 J	6.12 [4.75]	2.03
Barium	mg/kg	88.3	63.7	123	61.4 [56.6]	106
Beryllium	mg/kg	ND(0.696)	ND(0.758)	0.846	ND(0.668) [ND(0.656)]	0.741
Cadmium	mg/kg	0.241	0.144	0.233	0.119 J [0.130 J]	0.180 J
Calcium	mg/kg	26,900 J	68,800	11,100	65,800 [64,100]	17,600
Chromium	mg/kg	NA	NA	NA	NA	NA
Chromium Total	mg/kg	21.7	13.5	27.7	13.8 [12.0]	19.5
Cobalt	mg/kg	8.14 (IDWP)	ND(7.58)	9.66 (IDWP)	ND(6.68) [ND(6.56)]	8.15 (IDWP)
Copper	mg/kg	14.5	10.5	24.3	10.7 J [10.8 J]	13.5 J
Cyanide (total)	mg/kg	ND(0.350)	ND(0.380 J)	ND(0.350 J)	ND(0.330 J) [ND(0.330 J)]	ND(0.340 J)
Iron	mg/kg	17,700 J (IDWP)	11,500	18,300 (IDWP)	14,000 (IDWP) [12,100 (IDWP)]	16,400 (IDWP)
Lead	mg/kg	8.21	6.58	8.65	4.77 [5.04]	6.54
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA
Magnesium	mg/kg	12,500	26,700 (IDWP)	7,900	21,500 J [21,500 J]	11,100 J
Manganese	mg/kg	366	378	174	396 [375]	272
Mercury	mg/kg	ND(0.0696 J)	0.0830	0.0764	ND(0.0668 J) [ND(0.0656 J)]	ND(0.0673 J)
Nickel	mg/kg	20.0	16.8	24.2	14.0 [12.5]	17.2
Potassium	mg/kg	1,710	ND(758)	1,680	1,310 [914]	860
Selenium	mg/kg	ND(0.696 J)	ND(0.379 J)	ND(0.705 J)	ND(0.668 *) [ND(0.656 *)]	ND(0.673 *)
Silver	mg/kg	ND(0.696 J)	ND(0.379 J)	ND(0.705 J)	ND(0.668 J*) [ND(0.656 J*)]	ND(0.673 J*)
Sodium	mg/kg	ND(696)	ND(758)	ND(705)	ND(668) [ND(656)]	ND(673)
Thallium	mg/kg	ND(0.348)	ND(0.379 J)	ND(0.353)	ND(0.334 J) [ND(0.328)]	ND(0.337)
Vanadium	mg/kg	28.4	17.1	35.1	19.4 [17.1]	24.5
Zinc	mg/kg	52.6	33.0	71.8	27.2 J [26.2 J]	47.3 J

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond NS-SD-20 1.9 - 2.5 06/20/95	Secondary Settling Pond NS-SD-21 1.8 - 2.4 06/20/95	Stormwater Pond NS-7 0 - 4.5 06/21/95	Stormwater Pond NS-8 0 - 10 06/21/95	Stormwater Pond NS-9 0 - 4.5 06/21/95	Stormwater Pond NS-10 0 - 10 06/21/95	UST 4 UST4-MW1 10 - 12 06/01/94
Inorganics								
Aluminum	mg/kg	14,200 (IDWP)	6,990 (IDWP)	2,150	2,920	1,520	12,600 J (IDWP)	NA
Antimony	mg/kg	ND(0.771 J*)	ND(0.660 J*)	ND(0.314 J)	ND(0.362 J)	ND(0.325 J)	ND(0.672 J*)	NA
Arsenic	mg/kg	4.35	1.65	1.53	7.31	2.08	8.20 J	NA
Barium	mg/kg	110	49.0	23.7	24.8	18.2	114	NA
Beryllium	mg/kg	0.771	ND(0.660)	ND(0.629)	ND(0.724)	ND(0.651)	0.739	NA
Cadmium	mg/kg	0.330 J	0.279 J	0.0428	0.125	0.0390	0.319	NA
Calcium	mg/kg	48,800	34,100	39,200 J	43,600 J	34,400 J	30,900	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	24.8	12.6	5.41	7.53	3.84	23.5 J	NA
Cobalt	mg/kg	9.56 (IDWP)	ND(6.60)	ND(6.29)	ND(7.24)	ND(6.51)	9.47 (IDWP)	NA
Copper	mg/kg	18.4 J	7.72 J	3.58	4.85	2.60	17.3	NA
Cyanide (total)	mg/kg	ND(0.390 J)	ND(0.330 J)	ND(0.310)	0.560	ND(0.330)	ND(0.340)	NA
Iron	mg/kg	22,400 (IDWP)	13,000 (IDWP)	4,900	7,070	3,720	26,100 (IDWP)	NA
Lead	mg/kg	12.9	4.52	2.13	2.52	1.48	7.48	17.0
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	23,500 J (IDWP)	17,200 J	10,700	13,900	8,550	20,200	NA
Manganese	mg/kg	650 (IDWP)	453 (IDWP)	218	134	170	1,190 (IDWP)	NA
Mercury	mg/kg	0.0773 J	ND(0.0660 J)	ND(0.0629)	ND(0.0724)	ND(0.0651)	ND(0.0672)	NA
Nickel	mg/kg	22.8	10.5	6.10	7.17	3.90	20.5	NA
Potassium	mg/kg	2,550	1,190	ND(629)	ND(724)	ND(651)	1,290	NA
Selenium	mg/kg	ND(0.771 *)	ND(0.660 *)	ND(0.314)	ND(0.362 J)	ND(0.325)	ND(0.672 J*)	NA
Silver	mg/kg	ND(0.771 J*)	ND(0.660 J*)	ND(0.314 J)	ND(0.362 J)	ND(0.325 J)	ND(0.672 *)	NA
Sodium	mg/kg	ND(771)	ND(660)	ND(629)	ND(724)	ND(651)	ND(672)	NA
Thallium	mg/kg	ND(0.386)	ND(0.330)	ND(0.314 J)	ND(0.362 J)	ND(0.325 J)	ND(0.336)	NA
Vanadium	mg/kg	31.4	17.0	5.97	10.1	5.92	26.6	NA
Zinc	mg/kg	65.1 J	31.5 J	12.5	18.1	10.8	51.7	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 4 UST4-MW2 8 - 10 06/01/94	UST 4 UST4-MW3 10 - 12 06/01/94	UST 4 UST4-MW4 10 - 12 06/02/94	UST 7 BBL-MW1 4 - 6 05/02/96	UST 7 BBL-MW2 4 - 6 05/02/96	UST 7 BBL-MW3 6 - 8 05/02/96	UST 7 BBL-MW4 4 - 6 05/03/96	UST 7 BBL-MW5 4 - 6 05/03/96	UST 7 BBL-SB1 4 - 6 05/06/96	UST 7 BBL-SB1 8 - 10 05/06/96	UST 7 BBL-SB2 0 - 2 05/07/96	UST 7 BBL-SB3 6 - 8 05/07/96	UST 7 BBL-SB3 8 - 10 05/07/96
Inorganics														
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	8.30	6.70 [6.80]	20.0	38.0	12.0	13.2	4.48	2.55	4.39	17.8	28.3	38.2	25.5
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 BBL-SB4 0 - 2 05/07/96	UST 7 BBL-SB4 8 - 10 05/07/96	UST 7 BBL-SB5 0 - 2 05/06/96	UST 7 BBL-SB5 20 - 22 05/06/96	UST 7 SB-351 0 - 2 06/27/95	UST 7 T07-B108 1 - 3 07/13/92	UST 7 T07-B109 9 - 11 07/13/92	UST 7 T07-B109 13 - 15 07/13/92	UST 7 T07-B110 5 - 7 07/13/92	UST 7 T07-B110 13 - 15 07/13/92	UST 7 T07-B111 9 - 11 07/13/92	UST 7 T07-B111 13 - 15 07/13/92	UST 7 T07-B112 9 - 11 07/13/92
Inorganics														
Aluminum	mg/kg	NA	NA	NA	NA	4,720	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	0.570 BN	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	3.30	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	34.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	0.140 B	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	0.410 N*	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	2,860	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	6.80 N	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	5.00 B	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	29.5 N*	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	ND(0.110)	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	19,300 (IDWP)	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	14.8	14.9	138	5.17	41.3 E	5.20	11.0	36.0	6.40	5.90	17.0	3.40	2.10
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	1,160 *	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	314 *	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	ND(0.0600)	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	7.10 E	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	666	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	ND(0.280)	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	0.230 B	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	597	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	ND(0.570)	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	10.3	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	31.6 EN	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 7 T07-B112 13 - 15 07/13/92	UST 7 UST7-MW1 4 - 6 06/03/94	UST 7 UST7-MW2 5 - 7 06/03/94	UST 7 UST7-MW3 6 - 8 07/07/94	UST 7 UST7-MW4 2 - 4 07/07/94	UST 7 UST7-MW5 4 - 6 07/07/94	UST 8 UST8-MW1 0 - 2 05/25/94	UST 8 UST8-MW1 2 - 4 05/25/94	UST 8 UST8-MW2 0 - 2 05/25/94	UST 8 UST8-MW3 1 - 3 05/31/94	UST 8 UST8-SB1 2 - 3 04/01/94	UST 8 UST8-SB2 0 - 1.2 04/01/94
Inorganics													
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	0.220	0.200	0.440	0.310	1.00	5.20
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	9.00	7.00	15.0	12.0	13.0	37.0 (IDWP)
Chromium Total	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	2.50	2.50	16.0	18.0	29.0	37.0	4.90	4.00	14.0	6.70	9.70	68.0
Lead - Coarse Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

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Table 8. Inorganic Constituents Detected in Soil, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	UST 8 UST8-SB3 0.7 - 1.1 04/01/94	UST 8 UST8-SB4 1.8 - 2.3 04/01/94	UST 8 UST8-SB5 4 - 6 05/31/94
Inorganics				
Aluminum	mg/kg	NA	NA	NA
Antimony	mg/kg	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA
Barium	mg/kg	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA
Cadmium	mg/kg	2.20	1.20	0.340
Calcium	mg/kg	NA	NA	NA
Chromium	mg/kg	14.0	18.0	16.0
Chromium Total	mg/kg	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA
Copper	mg/kg	NA	NA	NA
Cyanide (total)	mg/kg	NA	NA	NA
Iron	mg/kg	NA	NA	NA
Lead	mg/kg	62.0	9.60	9.10
Lead - Coarse Fraction	mg/kg	NA	NA	NA
Lead - Fine Fraction	mg/kg	NA	NA	NA
Lead - Total (Calculated by fine/coarse fraction)	mg/kg	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA
Manganese	mg/kg	NA	NA	NA
Mercury	mg/kg	NA	NA	NA
Nickel	mg/kg	NA	NA	NA
Potassium	mg/kg	NA	NA	NA
Selenium	mg/kg	NA	NA	NA
Silver	mg/kg	NA	NA	NA
Sodium	mg/kg	NA	NA	NA
Thallium	mg/kg	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA
Zinc	mg/kg	NA	NA	NA

See Notes in Table 15.

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Tab. 15. Organic and Inorganic Constituents Detected in Surface Water, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area Location ID Date Collected:	GCC	Units	Northern Drainage Channels SW-01 06/13/95	Northern Drainage Channels SW-02 06/13/95	Northern Drainage Channels SW-03 06/13/95	Primary Settling Pond SW-08 06/14/95	Secondary Settling Pond SW-05 06/13/95
PCBs							
None Detected	--	--	--	--	--	--	--
Volatile Organics							
2-Hexanone	5,200	mg/L	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acetone	31,000 {I}	mg/L	0.0096 J	0.018 J	0.012 J	0.024 J	0.017 J
Benzene	11 {I}	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0016	0.00050 J
Chloroform	150	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00040 J	ND(0.0010)
Methylene Chloride	220	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00070 J
Toluene	530 {I,S}	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00090 J	ND(0.0010)
Semivolatile Organics							
2,4-Dimethylphenol	520	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.029	ND(0.0050)
2-Methylnaphthalene	25 {S}	mg/L	ND(0.0050)	0.00064 J	ND(0.0050)	0.020	ND(0.0050)
2-Methylphenol	--	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.065	ND(0.0050)
4-Methylphenol	--	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0035 J	ND(0.0050)
Acenaphthene	4.2 {S}	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0011 J	ND(0.0050)
bis(2-Ethylhexyl)phthalate	0.32 {AA}	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.019
Dibenzofuran	{ID}	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0016 J	ND(0.0050)
Fluorene	2 {S}	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0020 J	ND(0.0050)
Naphthalene	31 {S}	mg/L	ND(0.0050)	0.00066 J	ND(0.0050)	0.0092	ND(0.0050)
Phenanthrene	1 {S}	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0032 J	ND(0.0050)
Phenol	29,000	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.010	ND(0.0050)
Total Methylphenols	810 {J}	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.065	ND(0.0050)
Inorganics							
Aluminum	64,000 {B}	mg/L	0.375 J	0.539 J	0.349 J	6.07 J	0.491 J
Arsenic	4.3	mg/L	ND(0.00100 J)	ND(0.00100)	ND(0.00100 J)	0.00260	ND(0.00100 J)
Cadmium	190 {B}	mg/L	0.000790	0.00200	0.00140	0.00190	0.00160
Calcium	--	mg/L	48.9	44.6	41.2	43.6	45.2
Copper	7,400 {B}	mg/L	ND(0.0250)	ND(0.0250)	ND(0.0250)	0.0487	ND(0.0250)
Cyanide (total)	57 {P,R}	mg/L	0.0150	0.00520	0.00510	ND(0.00500)	ND(0.00500)
Iron	58,000 {B}	mg/L	0.686	1.19	0.841	23.7	0.897
Lead	{ID}	mg/L	0.00760	0.00900	0.00860	0.0578	0.00890
Magnesium	1,000,000 {B,D}	mg/L	10.2	9.11	8.69	10.5	9.44
Manganese	9,100 {B}	mg/L	0.206	0.219	0.194	0.828	0.208
Sodium	1,000,000 {D}	mg/L	24.9	23.4	22.1	21.8	23.5
Zinc	110,000 {B}	mg/L	0.849	1.26	1.09	3.68	1.10
Miscellaneous							
Hardness	--	mg/L	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 15. Organic and Inorganic Constituents Detected in Surface Water, ENCORE, Saginaw, Malleable Iron Plant, Saginaw, Michigan

Sampling Area Location ID Date Collected:	GCC	Units	Secondary Settling Pond SW-06 06/14/95	Secondary Settling Pond SW-07 06/14/95	Secondary Settling Pond SW-25 08/18/00	Stormwater pond SW-04 06/14/95	Stormwater pond SW-24 08/06/98
PCBs							
None Detected	--	--	--	--	NA	--	--
Volatile Organics							
2-Hexanone	5,200	mg/L	0.050 J	ND(0.050)	NA	ND(0.050)	NA
Acetone	31,000 {I}	mg/L	0.022 J	0.033 J	NA	0.022 J	NA
Benzene	11 {I}	mg/L	ND(0.0010)	0.0011	NA	0.0013	NA
Chloroform	150	mg/L	ND(0.0010)	0.00050 J	NA	0.00090 J	NA
Methylene Chloride	220	mg/L	ND(0.0010)	0.0010 J	NA	ND(0.0010)	NA
Toluene	530 {I,S}	mg/L	ND(0.0010)	0.000070 J	NA	0.00070 J	NA
Semivolatile Organics							
2,4-Dimethylphenol	520	mg/L	ND(0.0050)	0.048	NA	ND(0.0050)	NA
2-Methylnaphthalene	25 {S}	mg/L	0.0031 J	0.0050	NA	0.0072	NA
2-Methylphenol	--	mg/L	ND(0.0050)	0.10 B	NA	0.00096 J	NA
4-Methylphenol	--	mg/L	ND(0.0050)	0.010	NA	0.00097 J	NA
Acenaphthene	4.2 {S}	mg/L	ND(0.0050)	0.00067 J	NA	0.00062 J	NA
bis(2-Ethylhexyl)phthalate	0.32 {AA}	mg/L	ND(0.0050)	ND(0.0050)	NA	0.0055	NA
Dibenzofuran	{ID}	mg/L	0.00057 J	0.0011 J	NA	0.00080 J	NA
Fluorene	2 {S}	mg/L	0.00071 J	0.0014 J	NA	0.0012 J	NA
Naphthalene	31 {S}	mg/L	0.0020 J	0.0056	NA	0.0040 J	NA
Phenanthrene	1 {S}	mg/L	0.00095 J	0.0029 J	NA	0.0019 J	NA
Phenol	29,000	mg/L	0.0017 J	ND(0.0050)	NA	0.0040 J	NA
Total Methylphenols	810 {J}	mg/L	ND(0.0050)	0.10	NA	0.00096 J	NA
Inorganics							
Aluminum	64,000 {B}	mg/L	1.58 J	1.16 J	NA	5.90 J	NA
Arsenic	4.3	mg/L	0.00120	ND(0.00100 J)	NA	0.00220	NA
Cadmium	190 {B}	mg/L	0.00120	0.00100	NA	0.00100	NA
Calcium	--	mg/L	44.7	41.4	NA	46.3	NA
Copper	7,400 {B}	mg/L	ND(0.0250)	ND(0.0250)	NA	0.0484	NA
Cyanide (total)	57 {P,R}	mg/L	ND(0.00500)	0.00560	NA	ND(0.00500)	NA
Iron	58,000 {B}	mg/L	3.75	3.15	NA	27.5	NA
Lead	{ID}	mg/L	0.0281	0.0282	NA	0.0258	NA
Magnesium	1,000,000 {B,D}	mg/L	9.42	8.48	NA	11.0	NA
Manganese	9,100 {B}	mg/L	0.352	0.287	NA	0.747	NA
Sodium	1,000,000 {D}	mg/L	22.8	21.0	NA	22.8	NA
Zinc	110,000 {B}	mg/L	2.00	1.74	NA	1.50	NA
Miscellaneous							
Hardness	--	mg/L	NA	NA	140	NA	NA

See Notes in Table 15.

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Table 10. Volatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:	Location ID: Sample Depth (ft BGS): Date Collected:	Units	Generic MDEQ Criteria Values					Northern Drainage Channels SD-01 0 - 1.5 06/15/95	Northern Drainage Channels SD-01 1.5 - 3 06/15/95	Northern Drainage Channels SD-01 3 - 4.5 06/15/95	Northern Drainage Channels SD-02 0 - 1.7 06/15/95
			GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI			
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	460 {C}	460 {C}	4	29,000,000	460	4,500	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,1,2,2-Tetrachloroethane	mg/kg	94	240	0.7	68,000	23	34	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070 J)	ND(0.0082)
1,1,2-Trichloroethane	mg/kg	420	840	0.1	250,000	24	57	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,1-Dichloroethane	mg/kg	890 {C}	890 {C}	50	15,000,000	430	2,500	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,1-Dichloroethene	mg/kg	220 {I}	570 {I,C}	0.14 {I}	78,000 {I}	0.33 {I}	3.7 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,2-Dichlorobenzene	mg/kg	210 {C}	210 {C}	14	44,000,000	210 {C}	46,000	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,2-Dichloroethane	mg/kg	380 {I}	420 {I}	0.1 {I}	150,000 {I}	11 {I}	21 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,2-Dichloroethene (total)	mg/kg	--	--	--	--	--	--	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,2-Dichloropropane	mg/kg	320 {I}	550 {I,C}	0.1 {I}	120,000 {I}	7.4 {I}	30 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,2-Dichlorobenzene	mg/kg	51	170 {C}	0.48	{I}	{I}	{I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,4-Dichlorobenzene	mg/kg	140	1,900	1.7	570,000	100	260	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
1,4-Dioxane	mg/kg	34,000 {I}	2,400 {I}	7 {I}	710,000 {I}	{NLV}	{NLV}	NA	NA	NA	NA
2-Butanone	mg/kg	27,000 {I,C}	27,000 {I,C,DD}	760 {I}	29,000,000 {I}	27,000 {C}	35,000 {I}	0.038 J	0.033 J	ND(0.0070 J)	0.014 J
2-Hexanone	mg/kg	2,500 {C}	2,500 {C}	58	1,200,000	1,800	1,300	ND(0.082 J)	ND(0.076 J)	ND(0.070 J)	ND(0.082 J)
4-Methyl-2-pentanone	mg/kg	2,700 {I,C}	2,700 {I,C}	100 {I}	60,000,000 {I}	2,700 {I,C}	53,000 {I}	ND(0.082 J)	ND(0.076 J)	ND(0.070 J)	ND(0.082 J)
Acetone	mg/kg	110,000 {I,C}	73,000 {I}	42 {I}	170,000,000 {I}	110,000 {I,C}	160,000 {I}	0.27 J	0.17 J	0.025 J	0.081 J
Benzene	mg/kg	220 {I}	400 {I,C}	0.1 {I}	470,000 {I}	8.4 {I}	45 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Bromodichloromethane	mg/kg	280	490	1.6 {W}	110,000	6.4	31	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Bromoform	mg/kg	870 {C}	870 {C}	1.6 {W}	3,600,000	770	3,100	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Bromomethane	mg/kg	1,400	1,000	0.58	150,000	1.6	13	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Carbon Disulfide	mg/kg	280 {I,R,C}	280 {I,R,C,DD}	46 {I,R}	21,000,000 {I,R}	140 {I,R}	1,600 {I,R}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Carbon Tetrachloride	mg/kg	92	390 {C}	0.1	170,000	0.99 ⁺	12	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Chlorobenzene	mg/kg	260 {I,C}	260 {I,C}	2 {I}	2,100,000 {I}	220 {I}	920 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Chloroethane	mg/kg	950 {C}	950 {C}	34	290,000,000	950 {C}	36,000	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Chloroform	mg/kg	1,500 {C}	1,500 {C}	1.6 {W}	1,600,000	38	150	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Chloromethane	mg/kg	1,100 {I,C}	1,100 {I,C}	22 {I}	2,600,000 {I}	10 {I}	120 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Dibromochloromethane	mg/kg	360	500	1.6 {W}	160,000	21	80	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Dichlorodifluoromethane	mg/kg	1,000 {C}	1,000 {C}	270	1,500,000,000	1,700	63,000	NA	NA	NA	NA
Ethylbenzene	mg/kg	140 {I,C}	140 {I,C}	1.5 {I}	13,000,000 {I}	140 {I,C}	2,400 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Isobutanol	mg/kg	8,900 {I,C}	8,900 {I,C}	130 {I}	44,000,000 {I}	8,900 {I,C}	95,000 {I}	NA	NA	NA	NA
Methylene Chloride	mg/kg	2,300 {C}	2,300 {C}	0.1	8,300,000	240	700	ND(0.24 J)	ND(0.18 J)	ND(0.0099)	ND(0.14)
Styrene	mg/kg	270	520 {C}	2.7	6,900,000	520 {C}	3,300	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Tetrachloroethene	mg/kg	88 {C}	88 {C}	0.1	6,800,000	60	600	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Toluene	mg/kg	250 {I,C}	250 {I,C}	16 {I}	12,000,000 {I}	250 {I,C}	3,300 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
trans-1,2-Dichloroethene	mg/kg	1,400 {C}	1,400 {C}	2	2,100,000	43	330	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Trichloroethene	mg/kg	440	500 {C,DD}	0.1	2,300,000	37	260	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Vinyl Chloride	mg/kg	20	34	0.04	890,000	2.8	29	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)
Total 1,3-Dichloropropenes	mg/kg	110	240	0.7	590,000	5.4	60	ND(0.0082)	ND(0.0076)	ND(0.0070)	ND(0.0082)
Total Xylenes	mg/kg	150 {I,C}	150 {I,C}	5.6 {I}	130,000,000 {I}	150 {I,C}	54,000 {I}	ND(0.0082 J)	ND(0.0076 J)	ND(0.0070)	ND(0.0082)

See Notes in Table 15.

Table 10. Volatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-02	Northern Drainage Channels SD-02	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-04	Northern Drainage Channels SD-04	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05
Location ID:		1.7 - 3.4	3.4 - 5	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 1.6	1.8 - 3.6	3.6 - 5.4
Sample Depth (ft BGS):		06/15/95	06/15/95	06/15/95	06/15/95	06/15/95	06/19/95	06/19/95	06/21/95	06/21/95	06/21/95
Date Collected:	Units										
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8 J)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036 J)	ND(0.0073)	ND(0.0062)	ND(2.8 J)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,1,2-Trichloroethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,1-Dichloroethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,1-Dichloroethene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,2-Dichlorobenzene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,2-Dichloroethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,2-Dichloroethene (total)	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,2-Dichloropropane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,3-Dichlorobenzene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,4-Dichlorobenzene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	0.039 J	0.0032 J	ND(0.36 J)	0.0074 J	0.0031 J	ND(28)	ND(8.9 J)	ND(0.067 J)	0.0046 J	0.0064 J
2-Hexanone	mg/kg	ND(0.097 J)	ND(0.063 J)	ND(0.36 J)	ND(0.073 J)	ND(0.062 J)	ND(28 J)	ND(8.9 J)	ND(0.067 J)	ND(0.079)	ND(0.069)
4-Methyl-2-pentanone	mg/kg	ND(0.097 J)	ND(0.063 J)	ND(0.36 J)	ND(0.073 J)	ND(0.062 J)	ND(28)	ND(8.9)	ND(0.067)	ND(0.079)	ND(0.069)
Acetone	mg/kg	0.26 J	0.021 J	0.33 J	0.038 J	0.015 J	ND(28)	ND(8.9 J)	0.0046 J	ND(0.079)	ND(0.068)
Benzene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	1.8 J (IDWP)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Bromodichloromethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8 J)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Bromoform	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Bromomethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036 J)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89 J)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Carbon Disulfide	mg/kg	0.0060 J	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8 J)	ND(0.89 J)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Carbon Tetrachloride	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8 J)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Chlorobenzene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Chloroethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036 J)	ND(0.0073)	ND(0.0062)	ND(2.8)	0.89 J	ND(0.0067)	ND(0.0079)	ND(0.0069)
Chloroform	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Chloromethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036 J)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89 J)	ND(0.0067)	ND(0.0079)	ND(0.0069)
cis-1,3-Dichloropropene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Dibromochloromethane	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.070)	ND(0.021)	1.2 (IDWP)	ND(0.029 J)	ND(0.016)	100 (IDWP)	4.0 (IDWP)	ND(0.13)	ND(0.030)	ND(0.020)
Styrene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Tetrachloroethene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Toluene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	0.0090
trans-1,2-Dichloroethene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
trans-1,3-Dichloropropene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Trichloroethene	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Vinyl Chloride	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Total 1,3-Dichloropropenes	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	ND(2.8)	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)
Total Xylenes	mg/kg	ND(0.0097)	ND(0.0063)	ND(0.036)	ND(0.0073)	ND(0.0062)	1.6 J	ND(0.89)	ND(0.0067)	ND(0.0079)	ND(0.0069)

See Notes in Table 15.

Table 10. Volatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-09	Northern Drainage Channels SD-09	Secondary Settling Pond SD-10	Secondary Settling Pond SD-10
Location ID:		0 - 1.6	1.6 - 3.2	3.2 - 4.8	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 0.5	0.75 - 1.25
Sample Depth (ft BGS):		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/20/95	06/20/95
Date Collected:	Units										
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098 J)	R
1,1,2-Trichloroethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
1,1-Dichloroethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
1,1-Dichloroethene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
1,2-Dichlorobenzene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	R
1,2-Dichloroethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
1,2-Dichloroethene (total)	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
1,2-Dichloropropane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
1,3-Dichlorobenzene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	R
1,4-Dichlorobenzene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	R
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	ND(0.078)	0.0069 J	0.0086 J	0.0054 J	ND(0.075)	0.0048 J	ND(0.060)	0.011 J	0.018 J	0.014 J
2-Hexanone	mg/kg	ND(0.078)	ND(0.081)	ND(0.068)	ND(0.061)	ND(0.075 J)	ND(0.075)	ND(0.060)	ND(0.071)	ND(0.098 J)	R
4-Methyl-2-pentanone	mg/kg	ND(0.078)	ND(0.081)	ND(0.068)	ND(0.061)	ND(0.075 J)	ND(0.075)	ND(0.060)	ND(0.071)	ND(0.098 J)	R
Acetone	mg/kg	ND(0.078)	ND(0.081)	ND(0.068)	ND(0.061)	ND(0.075)	0.022 J	0.012 J	0.048 J	0.061 J	0.063 J
Benzene	mg/kg	0.010	ND(0.0081)	ND(0.0068)	ND(0.0061)	0.0070 J	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	0.082 J
Bromodichloromethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Bromoform	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Bromomethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Carbon Disulfide	mg/kg	0.0045 J	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	0.0049 J
Carbon Tetrachloride	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Chlorobenzene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098 J)	R
Chloroethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Chloroform	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Chloromethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
cis-1,3-Dichloropropene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Dibromochloromethane	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098 J)	0.0069 J
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.072)	ND(0.023)	ND(0.038)	ND(0.020)	ND(0.029)	ND(0.036)	ND(0.0069)	ND(0.0070)	ND(0.029)	0.024
Styrene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098 J)	R
Tetrachloroethene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098 J)	R
Toluene	mg/kg	ND(0.0078)	ND(0.0081)	0.0066 J	0.0025 J	0.0035 J	0.0040 J	ND(0.0060)	0.010	ND(0.0098 J)	0.041 J
trans-1,2-Dichloroethene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
trans-1,3-Dichloropropene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Trichloroethene	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Vinyl Chloride	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010 J)
Total 1,3-Dichloropropenes	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098)	ND(0.010)
Total Xylenes	mg/kg	ND(0.0078)	ND(0.0081)	ND(0.0068)	ND(0.0061)	ND(0.0075 J)	ND(0.0075)	ND(0.0060)	ND(0.0071)	ND(0.0098 J)	0.036 J

See Notes in Table 15.

Table 10. Volatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-10	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-13	Secondary Settling Pond SD-13	Secondary Settling Pond SD-13
Location ID:		SD-10	SD-11	SD-11	SD-11	SD-12	SD-12	SD-12	SD-13	SD-13	SD-13
Sample Depth (ft BGS):		1.5 - 2	0.9 - 1.4	1.8 - 2.3	2.3 - 2.9	0 - 0.5	1.05 - 1.55	2.1 - 2.6	0 - 0.5	1.45 - 1.95	2.9 - 3.4
Date Collected:	Units	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Volatile Organics											
1,1,1-Trichloroethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018)	ND(0.0090 J)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
1,1,2-Trichloroethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018)	ND(0.0090 J)
1,1-Dichloroethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018)	ND(0.0090 J)
1,1-Dichloroethene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018)	ND(0.0090 J)
1,2-Dichlorobenzene	mg/kg	ND(0.0068)	ND(0.0089)	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
1,2-Dichloroethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018)	ND(0.0090 J)
1,2-Dichloroethene (total)	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018)	ND(0.0090 J)
1,2-Dichloropropane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018)	ND(0.0090 J)
1,3-Dichlorobenzene	mg/kg	ND(0.0068)	ND(0.0089)	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
1,4-Dichlorobenzene	mg/kg	ND(0.0068)	ND(0.0089)	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.018)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	0.0037 J	0.013 J	0.0051 J	0.021 J	0.018 J	0.045 J [0.011	0.046 J	0.030 J	0.046 J	0.0076 J
2-Hexanone	mg/kg	ND(0.068)	R	ND(0.10)	ND(0.11)	ND(0.13)	ND(0.18)	ND(0.10)	ND(0.15)	ND(0.18 J)	ND(0.090 J)
4-Methyl-2-pentanone	mg/kg	ND(0.068)	R	ND(0.10)	ND(0.11)	ND(0.13)	ND(0.18)	ND(0.10)	ND(0.15)	ND(0.18 J)	ND(0.090 J)
Acetone	mg/kg	0.014 J	0.058 J	0.022 J	0.090 J	0.096 J	0.24 [0.059 J]	0.24	0.12 J	0.19 J	0.031 J
Benzene	mg/kg	ND(0.0068)	0.026 J	ND(0.010)	ND(0.011)	0.0092 J	ND(0.018)	ND(0.010)	0.0084 J	ND(0.018)	ND(0.0090 J)
Bromodichloromethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Bromoform	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Bromomethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Carbon Disulfide	mg/kg	ND(0.0068)	R	0.0079 J	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Carbon Tetrachloride	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Chlorobenzene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
Chloroethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Chloroform	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Chloromethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
cis-1,3-Dichloropropene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Dibromochloromethane	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.026)	R	ND(0.011)	ND(0.036)	ND(0.013)	ND(0.026)	ND(0.017)	ND(0.033)	ND(0.024)	ND(0.16 J)
Styrene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
Tetrachloroethene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
Toluene	mg/kg	ND(0.0068)	0.0084 J	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)
trans-1,2-Dichloroethene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
trans-1,3-Dichloropropene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Trichloroethene	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Vinyl Chloride	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Total 1,3-Dichloropropenes	mg/kg	ND(0.0068)	R	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018)	ND(0.0090 J)
Total Xylenes	mg/kg	ND(0.0068)	0.0066 J	ND(0.010)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.015)	ND(0.018 J)	ND(0.0090 J)

See Notes in Table 15.

Table 10. Volatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-14	Secondary Settling Pond SD-14	Secondary Settling Pond SD-14	Secondary Settling Pond SD-15	Secondary Settling Pond SD-15	Secondary Settling Pond SD-15	Secondary Settling Pond SD-16	Secondary Settling Pond SD-16	Secondary Settling Pond SD-16
Location ID:		SD-14	SD-14	SD-14	SD-15	SD-15	SD-15	SD-16	SD-16	SD-16
Sample Depth (ft BGS):		0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	1.1 - 1.6	2.2 - 2.7
Date Collected:	Units	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Volatile Organics										
1,1,1-Trichloroethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	R	ND(0.0078 J)	R
1,1,2-Trichloroethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
1,1-Dichloroethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
1,1-Dichloroethene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
1,2-Dichlorobenzene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	R	ND(0.0078)	R
1,2-Dichloroethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078 J)	ND(0.0081 J)
1,2-Dichloroethene (total)	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
1,2-Dichloropropane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
1,3-Dichlorobenzene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	R	ND(0.0078 J)	R
1,4-Dichlorobenzene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	R	ND(0.0078 J)	R
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	0.024 J	0.031 J	0.018 J	0.037 J	0.028 J	0.023 J	0.026 J	0.0073 J	0.023 J
2-Hexanone	mg/kg	ND(0.13)	ND(0.18)	ND(0.10)	ND(0.14)	ND(0.14)	ND(0.092)	R	ND(0.078 J)	R
4-Methyl-2-pentanone	mg/kg	ND(0.13)	ND(0.18)	ND(0.10)	ND(0.14)	ND(0.14)	ND(0.092)	R	ND(0.078 J)	R
Acetone	mg/kg	0.13	0.11 JB	ND(0.10)	0.21	0.15	0.10	0.099 J	0.026 J	0.11 J
Benzene	mg/kg	0.0091 J	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	0.036 J	ND(0.0078)	ND(0.0081 J)
Bromodichloromethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Bromoform	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Bromomethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Carbon Disulfide	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	0.0046 J
Carbon Tetrachloride	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Chlorobenzene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	R	ND(0.0078 J)	R
Chloroethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Chloroform	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Chloromethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
cis-1,3-Dichloropropene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Dibromochloromethane	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	0.0044 J	ND(0.0078 J)	R
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.057)	ND(0.081)	ND(0.028)	ND(0.49)	ND(0.075)	ND(0.084)	ND(0.071 J)	ND(0.0059)	ND(0.024 J)
Styrene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	R	ND(0.0078 J)	R
Tetrachloroethene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	R	ND(0.0078 J)	R
Toluene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	0.011 J	ND(0.0078 J)	R
trans-1,2-Dichloroethene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
trans-1,3-Dichloropropene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Trichloroethene	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Vinyl Chloride	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010 J)	ND(0.0078)	ND(0.0081 J)
Total 1,3-Dichloropropenes	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	ND(0.010)	ND(0.0078)	ND(0.0081)
Total Xylenes	mg/kg	ND(0.013)	ND(0.018)	ND(0.010)	ND(0.014)	ND(0.014)	ND(0.0092)	0.019 J	ND(0.0078 J)	ND(0.0081 J)

See Notes in Table 15.

Table 10. Volatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-19	Secondary Settling Pond SD-19	Secondary Settling Pond SD-19
Location ID:		0 - 0.5	0.95 - 1.45	1.9 - 2.4	0 - 0.5	2.25 - 2.75	4.5 - 5	0 - 0.5	1.75 - 2.25	3.5 - 4
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:	Units									
Volatile Organics										
1,1,1-Trichloroethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.016)	ND(0.0087 J)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,1,2-Trichloroethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,1-Dichloroethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,1-Dichloroethene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,2-Dichlorobenzene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,2-Dichloroethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,2-Dichloroethene (total)	mg/kg	NA	NA	NA	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,2-Dichloropropane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,3-Dichlorobenzene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,4-Dichlorobenzene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
1,4-Dioxane	mg/kg	R [R]	R	R	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	0.018 J [0.0082]	0.041 J	0.013 J	0.038 J	0.0057 J	0.0049 J	0.094 J	0.0045 J	ND(0.073)
2-Hexanone	mg/kg	ND(0.16)	ND(0.087 J)	ND(0.078 J)	ND(0.66)	ND(0.11)	ND(0.074)	ND(0.77)	ND(0.11)	ND(0.073)
4-Methyl-2-pentanone	mg/kg	ND(0.16)	ND(0.087 J)	ND(0.078 J)	ND(0.66)	ND(0.11)	ND(0.074)	ND(0.77)	ND(0.11)	ND(0.073)
Acetone	mg/kg	0.089 J [0.040]	0.19 J	0.053 J	0.16 J	0.024 J	0.021 J	0.61 J	0.037 J	0.0097 J
Benzene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Bromodichloromethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Bromoform	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Bromomethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Carbon Disulfide	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Carbon Tetrachloride	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Chlorobenzene	mg/kg	ND(0.016)	ND(0.0087 J)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Chloroethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Chloroform	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Chloromethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
cis-1,3-Dichloropropene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Dibromochloromethane	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Dichlorodifluoromethane	mg/kg	ND(0.016)	0.0087	ND(0.0078 J)	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.016)	ND(0.0087 J)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Isobutanol	mg/kg	ND(1.6) [R]	R	R	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.54)	ND(0.074)	ND(0.044 J)	ND(0.89)	ND(0.011)	ND(0.012)	1.6 (IDWP)	ND(0.028)	ND(0.019)
Styrene	mg/kg	ND(0.016)	ND(0.0087 J)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Tetrachloroethene	mg/kg	ND(0.016)	ND(0.0087 J)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Toluene	mg/kg	ND(0.016)	ND(0.0087 J)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
trans-1,2-Dichloroethene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
trans-1,3-Dichloropropene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Trichloroethene	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Vinyl Chloride	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078 J)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Total 1,3-Dichloropropenes	mg/kg	ND(0.016)	ND(0.0087)	ND(0.0078)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)
Total Xylenes	mg/kg	ND(0.016)	0.0039 J	ND(0.0078)	ND(0.066)	ND(0.011)	ND(0.0074)	ND(0.077)	ND(0.011)	ND(0.0073)

See Notes in Table 15.

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Table 10. Volatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-20	Secondary Settling Pond SD-20	Secondary Settling Pond SD-20	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Stormwater Pond SD-08	Stormwater Pond SD-08	Stormwater Pond SD-08
Location ID:		0 - 1	0.7 - 1.2	1.4 - 1.9	0 - 0.5	0.65 - 1.15	1.3 - 1.8	0 - 1.5	1.5 - 3	3 - 4.5
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95	06/21/95
Date Collected:	Units									
Volatile Organics										
1,1,1-Trichloroethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,1,2,2-Tetrachloroethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,1,2-Trichloroethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,1-Dichloroethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	0.0084 J	ND(0.0067)
1,1-Dichloroethene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,2-Dichlorobenzene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,2-Dichloroethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,2-Dichloroethene (total)	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,2-Dichloropropane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,3-Dichlorobenzene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,4-Dichlorobenzene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
1,4-Dioxane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	0.027 J	0.021 J	0.028 J	ND(0.15)	0.016 J	0.010 J	0.0075 J	0.025 J	0.0042 J
2-Hexanone	mg/kg	ND(0.14)	ND(0.15)	ND(0.093)	ND(0.15)	ND(0.16)	ND(0.088)	ND(0.085 J)	ND(0.084 J)	ND(0.067)
4-Methyl-2-pentanone	mg/kg	ND(0.14)	ND(0.15)	ND(0.093)	ND(0.15)	ND(0.16)	ND(0.088)	ND(0.085 J)	ND(0.084 J)	ND(0.067)
Acetone	mg/kg	ND(0.093)	0.12 J	0.12	ND(0.15)	0.098 J	0.083 J	0.043 J	0.14 J	0.017 J
Benzene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Bromodichloromethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Bromoform	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Bromomethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Carbon Disulfide	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	0.012	0.0035 J
Carbon Tetrachloride	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Chlorobenzene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Chloroethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Chloroform	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Chloromethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
cis-1,3-Dichloropropene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Dibromochloromethane	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Isobutanol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	ND(0.025)	ND(0.061)	ND(0.044)	ND(0.013)	ND(0.021)	ND(0.0093)	ND(0.0054 J)	ND(0.0073 J)	ND(0.016)
Styrene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Tetrachloroethene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Toluene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
trans-1,2-Dichloroethene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
trans-1,3-Dichloropropene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Trichloroethene	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Vinyl Chloride	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Total 1,3-Dichloropropenes	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)
Total Xylenes	mg/kg	ND(0.014)	ND(0.015)	ND(0.0093)	ND(0.015)	ND(0.016)	ND(0.0088)	ND(0.0085 J)	ND(0.0084 J)	ND(0.0067)

See Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Generic MDEQ Criteria Values						Northern Drainage Channels SD-01 0 - 1.5 06/15/95	Northern Drainage Channels SD-01 1.5 - 3 06/15/95	Northern Drainage Channels SD-01 3 - 4.5 06/15/95	Northern Drainage Channels SD-02 0 - 1.7 06/15/95
		GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI				
Semivolatile Organics											
1,2,4-Trichlorobenzene	mg/kg	1,100	1,100 {C,DD}	4.2	11,000,000	1,100 {C}	34,000	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
1,3,5-Trinitrobenzene	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	10,000	36,000	20	2,100,000	{NLV}	{NLV}	0.36 J	0.22 J	ND(0.23)	ND(2.7)
2-Methylnaphthalene	mg/kg	5,500	26,000	170	{ID}	{ID}	{ID}	1.8	0.86 J	0.059 J	1.9 J
2-Methylphenol	mg/kg	--	--	--	--	--	--	0.23 J	ND(1.3)	ND(0.23)	ND(2.7)
3-Methylphenol	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
4-Methylphenol	mg/kg	--	--	--	--	--	--	0.28 J	ND(1.3)	ND(0.23)	ND(2.7)
4-Nitroquinoline-1-oxide	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA
Acenaphthene	mg/kg	970	130,000	880	6,200,000	350,000	97,000	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Acetophenone	mg/kg	1,100 {C}	1,100 {C}	88	14,000,000	1,100 {C}	52,000	NA	NA	NA	NA
Anthracene	mg/kg	41	730,000	41	29,000,000	1,000,000 {D}	1,600,000	0.17 J	0.14 J	ND(0.23)	ND(2.7)
Benzo(a)anthracene	mg/kg	{NLL}	80 {Q}	{NLL}	{ID}	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Benzo(a)pyrene	mg/kg	{NLL}	8 {Q}	{NLL}	1,900 {Q}	{NLV}	{NLV}	0.13 J	ND(1.3)	ND(0.23)	ND(2.7)
Benzo(b)fluoranthene	mg/kg	{NLL}	80 {Q}	{NLL}	{ID}	{ID}	{ID}	0.15 J	ND(1.3)	ND(0.23)	ND(2.7)
Benzo(g,h,i)perylene	mg/kg	{NLL}	7,000	{NLL}	350,000	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Benzo(k)fluoranthene	mg/kg	{NLL}	800 {Q}	{NLL}	{ID}	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
bis(2-Chloroethyl)ether	mg/kg	110 {I}	58 {I}	0.17 {I}	12,000 {I}	44 {I}	13 {I}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
bis(2-Ethylhexyl)phthalate	mg/kg	{NLL}	10,000 {C}	{NLL}	890,000	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Butylbenzylphthalate	mg/kg	310 {C}	310 {C}	310 {C}	21,000,000	{NLV}	{NLV}	ND(1.1)	0.41 J	0.075 J	ND(2.7)
Carbazole	mg/kg	820	2,400	39	{ID}	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Chrysene	mg/kg	{NLL}	8,000 {Q}	{NLL}	{ID}	{ID}	{ID}	ND(1.1)	0.26 J	ND(0.23)	ND(2.7)

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Generic MDEQ Criteria Values						Northern Drainage Channels SD-01 0 - 1.5 06/15/95	Northern Drainage Channels SD-01 1.5 - 3 06/15/95	Northern Drainage Channels SD-01 3 - 4.5 06/15/95	Northern Drainage Channels SD-02 0 - 1.7 06/15/95
		GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI				
Dibenzofuran	mg/kg	{ID}	{ID}	{ID}	{ID}	{ID}	{ID}	0.32 J	0.17 J	ND(0.23)	ND(2.7)
Diethylphthalate	mg/kg	740 {C}	740 {C}	320	1,500,000	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Di-n-Butylphthalate	mg/kg	760 {C}	760 {C}	760 {C}	1,500,000	{NLV}	{NLV}	ND(1.1)	ND(1.3)	2.1	ND(2.7)
Di-n-Octylphthalate	mg/kg	140,000 {C}	20,000	140,000 {C}	{ID}	{NLV}	{NLV}	2.2	1.3	ND(0.23)	ND(2.7)
Fluoranthene	mg/kg	730	130,000	730	4,100,000	1,000,000 {D}	890,000	0.39 J	0.42 J	0.075 J	0.77 J
Fluorene	mg/kg	890	87,000	890	4,100,000	1,000,000 {D}	150,000	0.30 J	ND(1.3)	ND(0.23)	ND(2.7)
Indeno(1,2,3-cd)pyrene	mg/kg	{NLL}	80 {Q}	{NLL}	{ID}	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Isophorone	mg/kg	2,400 {C}	2,400 {C}	62	8,200,000	{NLV}	{NLV}	ND(1.1)	ND(1.3)	ND(0.23)	ND(2.7)
Naphthalene	mg/kg	2,100	52,000	100	88,000	470	350	1.5	0.70 J	0.048 J	1.9 J
Phenanthrene	mg/kg	1,100	5,200	160	2,900	5,100	190	1.1	0.64 J	0.070 J	ND(2.7)
Phenol	mg/kg	12,000 {C}	12,000 {C,DD}	260	18,000,000	{NLV}	{NLV}	0.34 J	ND(1.3)	ND(0.23)	ND(2.7)
Pyrene	mg/kg	480	84,000	480	2,900,000	1,000,000 {D}	780,000	0.30 J	0.25 J	0.059 J	ND(2.7)
Total Methylphenols	mg/kg	16,000 {J}	36,000 {J}	20 {J}	2,900,000 {J}	{NLV}	{NLV}	0.23 J	ND(1.3)	ND(0.23)	ND(2.7)

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-02	Northern Drainage Channels SD-02	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-04	Northern Drainage Channels SD-04	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05
Location ID:		1.7 - 3.4	3.4 - 5	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 1.6	1.8 - 3.6	3.6 - 5.4
Sample Depth (ft BGS):		06/15/95	06/15/95	06/15/95	06/15/95	06/15/95	06/19/95	06/19/95	06/21/95	06/21/95	06/21/95
Date Collected:	Units										
Semivolatile Organics											
1,2,4-Trichlorobenzene	mg/kg	ND(0.64)	ND(0.42)	ND(7.2) [ND(7.0)]	ND(0.24)	ND(0.41)	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	0.63 J	0.13 J	ND(7.2) [ND(7.0)]	0.41	0.28 J	ND(2.2)	ND(0.23)	0.13 J	0.55	ND(0.23)
2-Methylnaphthalene	mg/kg	3.0	0.75	4.9 J [5.2 J]	2.1	1.5	0.55 J	ND(0.23)	0.53	0.65	ND(0.23)
2-Methylphenol	mg/kg	0.36 J	0.070 J	ND(7.2) [ND(7.0)]	0.31	0.15 J	ND(2.2)	ND(0.23)	0.070 J	ND(0.52)	ND(0.23)
3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	0.42 J	0.093 J	ND(7.2) [ND(7.0)]	0.39	0.16 J	ND(2.2)	ND(0.23)	0.077 J	ND(0.52)	ND(0.23)
4-Nitroquinoline-1-oxide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	0.20 J	0.050 J	ND(7.2) [ND(7.0)]	0.15 J	0.092 J	ND(2.2)	ND(0.23)	0.024 J	ND(0.52)	ND(0.23)
Acetophenone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	0.23 J	0.070 J	ND(7.2) [ND(7.0)]	0.18 J	0.11 J	ND(2.2)	ND(0.23)	0.053 J	ND(0.52)	ND(0.23)
Benzo(a)anthracene	mg/kg	0.20 J	0.075 J	ND(7.2) [ND(7.0)]	0.16 J	0.099 J	ND(2.2)	ND(0.23)	0.044 J	ND(0.52)	ND(0.23)
Benzo(a)pyrene	mg/kg	0.22 J	ND(0.42)	ND(7.2) [ND(7.0)]	0.10 J	0.078 J	ND(2.2)	ND(0.23)	0.028 J	ND(0.52)	ND(0.23)
Benzo(b)fluoranthene	mg/kg	0.28 J	0.095 J	ND(7.2) [ND(7.0)]	0.13 J	0.12 J	ND(2.2)	ND(0.23)	0.040 J	ND(0.52)	ND(0.23)
Benzo(g,h,i)perylene	mg/kg	0.15 J	0.045 J	ND(7.2) [ND(7.0)]	0.082 J	0.083 J	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
Benzo(k)fluoranthene	mg/kg	ND(0.64)	ND(0.42)	ND(7.2) [ND(7.0)]	ND(0.24)	ND(0.41)	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
bis(2-Chloroethyl)ether	mg/kg	ND(0.64)	ND(0.42)	ND(7.2) [ND(7.0)]	ND(0.24)	ND(0.41)	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.64)	ND(0.42)	ND(7.2) [ND(7.0)]	0.83	ND(0.41)	ND(2.2 J)	ND(0.23)	ND(0.22)	0.27 J	ND(0.23)
Butylbenzylphthalate	mg/kg	ND(0.64)	ND(0.42)	ND(7.2) [ND(7.0)]	ND(0.24)	ND(0.41)	ND(2.2 J)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
Carbazole	mg/kg	0.070 J	ND(0.42)	ND(7.2) [ND(7.0)]	ND(0.24)	ND(0.41)	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
Chrysene	mg/kg	0.27 J	0.10 J	ND(7.2) [ND(7.0)]	0.21 J	0.13 J	ND(2.2)	ND(0.23)	0.065 J	ND(0.52)	ND(0.23)

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-02	Northern Drainage Channels SD-02	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-04	Northern Drainage Channels SD-04	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05
Location ID:		1.7 - 3.4	3.4 - 5	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 1.6	1.8 - 3.6	3.6 - 5.4
Sample Depth (ft BGS):		06/15/95	06/15/95	06/15/95	06/15/95	06/15/95	06/19/95	06/19/95	06/21/95	06/21/95	06/21/95
Date Collected:	Units										
Dibenzofuran	mg/kg	0.56 J	0.15 J	ND(7.2) [ND(7.0)]	0.45	0.25 J	ND(2.2)	ND(0.23)	0.12 J	0.14 J	ND(0.23)
Diethylphthalate	mg/kg	ND(0.64)	ND(0.42)	ND(7.2) [ND(7.0)]	ND(0.24)	ND(0.41)	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
Di-n-Butylphthalate	mg/kg	0.21 J	0.086 J	ND(7.2) [ND(7.0)]	0.92	0.10 J	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	0.044 J
Di-n-Octylphthalate	mg/kg	0.84 J	0.25 J	ND(7.2) [ND(7.0)]	1.3 J	0.35 J	ND(2.2)	ND(0.23)	ND(0.22)	0.77	ND(0.23)
Fluoranthene	mg/kg	0.71	0.18 J	1.0 J [1.1 J]	0.52	0.29 J	ND(2.2)	ND(0.23)	0.11 J	0.15 J	ND(0.23)
Fluorene	mg/kg	0.52 J	0.13 J	ND(7.2) [ND(7.0)]	0.40	0.23 J	ND(2.2)	ND(0.23)	0.10 J	ND(0.52)	ND(0.23)
Indeno(1,2,3-cd)pyrene	mg/kg	0.070 J	ND(0.42)	ND(7.2) [ND(7.0)]	0.035 J	ND(0.41)	ND(2.2)	ND(0.23)	ND(0.22)	ND(0.52)	ND(0.23)
Isophorone	mg/kg	0.86	0.18 J	ND(7.2) [ND(7.0)]	0.29	0.35 J	ND(2.2)	ND(0.23)	0.18 J	0.20 J	ND(0.23)
Naphthalene	mg/kg	2.8	0.63	3.8 J [4.4 J]	1.7	1.2	0.61 J	ND(0.23)	0.51	0.61	ND(0.23)
Phenanthrene	mg/kg	1.8	0.54	2.2 J [2.3 J]	1.2	0.84	ND(2.2)	ND(0.23)	0.38	0.43 J	ND(0.23)
Phenol	mg/kg	0.39 J	0.073 J	ND(7.2) [ND(7.0)]	0.31	0.14 J	ND(2.2)	ND(0.23)	0.039 J	ND(0.52)	ND(0.23)
Pyrene	mg/kg	0.32 J	0.13 J	0.85 J [ND(7.0)]	0.20 J	0.14 J	ND(2.2)	ND(0.23)	0.062 J	0.099 J	ND(0.23)
Total Methylphenols	mg/kg	0.36 J	0.070 J	ND(7.2) [ND(7.0)]	0.31	0.15 J	ND(2.2)	ND(0.23)	0.070 J	ND(0.52)	ND(0.23)

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-09	Northern Drainage Channels SD-09	Secondary Settling Pond SD-10	Secondary Settling Pond SD-10
Location ID:		0 - 1.6	1.6 - 3.2	3.2 - 4.8	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 0.5	0.75 - 1.25
Sample Depth (ft BGS):		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/20/95	06/20/95
Date Collected:	Units										
Semivolatile Organics											
1,2,4-Trichlorobenzene	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	0.35	0.40 J	ND(0.22)	ND(1.0)	0.44 J	0.41 J	ND(0.80) [ND(0.83)]	ND(0.23)	3.2 J	ND(6.8)
2-Methylnaphthalene	mg/kg	1.1	1.0	0.034 J	0.60 J	0.80	0.36 J	0.23 J [0.18 J]	ND(0.23)	13	2.2 J
2-Methylphenol	mg/kg	0.22 J	0.12 J	ND(0.22)	ND(1.0)	0.23 J	0.078 J	ND(0.80) [ND(0.83)]	ND(0.23)	3.5 J	ND(6.8)
3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	0.20 J	0.22 J	ND(0.22)	ND(1.0)	0.30 J	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
4-Nitroquinoline-1-oxide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Acetophenone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	5.4	NA
Anthracene	mg/kg	0.10 J	0.11 J	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	0.085 J [0.10 J]	ND(0.23)	1.0 J	ND(6.8)
Benzo(a)anthracene	mg/kg	0.077 J	0.085 J	ND(0.22)	ND(1.0)	ND(0.62)	0.069 J	ND(0.80) [0.55 J]	ND(0.23)	ND(6.4)	ND(6.8)
Benzo(a)pyrene	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	0.33 J [0.64 J]	ND(0.23)	ND(6.4)	ND(6.8)
Benzo(b)fluoranthene	mg/kg	0.12 J	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	0.58 J [1.1]	ND(0.23)	ND(6.4)	ND(6.8)
Benzo(g,h,i)perylene	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	0.14 J [0.22 J]	ND(0.23)	ND(6.4)	ND(6.8)
Benzo(k)fluoranthene	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [0.39 J]	ND(0.23)	ND(6.4)	ND(6.8)
bis(2-Chloroethyl)ether	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
bis(2-Ethylhexyl)phthalate	mg/kg	0.11 J	0.82	0.16 J	0.47 J	0.55 J	0.51	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Butylbenzylphthalate	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Carbazole	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Chrysene	mg/kg	0.12 J	0.15 J	ND(0.22)	ND(1.0)	ND(0.62)	0.086 J	0.49 J [0.77 J]	ND(0.23)	ND(6.4)	ND(6.8)

See Generic Notes in Table 15.

Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-09	Northern Drainage Channels SD-09	Secondary Settling Pond SD-10	Secondary Settling Pond SD-10
Location ID:		0 - 1.6	1.6 - 3.2	3.2 - 4.8	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 0.5	0.75 - 1.25
Sample Depth (ft BGS):		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/20/95	06/20/95
Date Collected:	Units										
Dibenzofuran	mg/kg	0.28	0.25 J	ND(0.22)	0.19 J	0.17 J	0.073 J	0.089 J [ND(0.83)]	ND(0.23)	3.0 J	ND(6.8)
Diethylphthalate	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Di-n-Butylphthalate	mg/kg	0.065 J	ND(0.67)	0.032 J	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	7.3	ND(6.8)
Di-n-Octylphthalate	mg/kg	0.13 J	2.4	0.41	0.94 J	1.4	1.2	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Fluoranthene	mg/kg	0.22 J	0.25 J	ND(0.22)	0.27 J	0.15 J	0.15 J	1.2 [1.7]	0.031 J	1.8 J	ND(6.8)
Fluorene	mg/kg	0.18 J	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	ND(0.62)	ND(0.50)	0.14 J [0.24 J]	ND(0.23)	ND(6.4)	ND(6.8)
Isophorone	mg/kg	0.39	0.50 J	ND(0.22)	ND(1.0)	0.38 J	ND(0.50)	ND(0.80) [ND(0.83)]	ND(0.23)	ND(6.4)	ND(6.8)
Naphthalene	mg/kg	1.0	1.1	0.038 J	0.60 J	0.82	0.33 J	0.25 J [0.20 J]	ND(0.23)	12	2.1 J
Phenanthrene	mg/kg	0.75	0.69	0.034 J	0.45 J	0.43 J	0.24 J	0.76 J [1.0]	ND(0.23)	6.7	0.86 J
Phenol	mg/kg	ND(0.26)	ND(0.67)	ND(0.22)	ND(1.0)	0.30 J	0.079 J	ND(0.80) [0.086 J]	ND(0.23)	5.1 J	ND(6.8)
Pyrene	mg/kg	0.13 J	0.20 J	ND(0.22)	0.21 J	0.12 J	0.12 J	0.54 J [0.89]	ND(0.23)	1.3 J	ND(6.8)
Total Methylphenols	mg/kg	0.22 J	0.12 J	ND(0.22)	ND(1.0)	0.23 J	0.078 J	ND(0.80) [ND(0.83)]	ND(0.23)	3.5 J	ND(6.8)

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-10	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-13	Secondary Settling Pond SD-13	Secondary Settling Pond SD-13
Location ID:	Units	1.5 - 2	0.9 - 1.4	1.8 - 2.3	2.3 - 2.9	0 - 0.5	1.05 - 1.55	2.1 - 2.6	0 - 0.5	1.45 - 1.95	2.9 - 3.4
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:											
Semivolatile Organics											
1,2,4-Trichlorobenzene	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	ND(1.1)	1.2	ND(6.6)	ND(1.4)	1.3 J	1.1 J [1.0 J]	ND(1.3)	0.94 J	ND(3.0)	0.18 J
2-Methylnaphthalene	mg/kg	0.16 J	4.0	7.5	1.4	8.9	11 [10]	0.89 J	5.5	6.1	0.76 J
2-Methylphenol	mg/kg	ND(1.1)	1.5	ND(6.6)	ND(1.4)	1.9	0.60 J [0.68 J]	ND(1.3)	0.72 J	ND(3.0)	0.10 J
3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	ND(1.1)	1.2	ND(6.6)	ND(1.4)	1.4 J	0.65 J [0.69 J]	ND(1.3)	ND(2.6)	ND(3.0)	0.16 J
4-Nitroquinoline-1-oxide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	ND(1.1)	0.10 J	ND(6.6)	ND(1.4)	0.54 J	0.67 J [0.66 J]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Acetophenone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	ND(1.1)	0.69	ND(6.6)	0.22 J	0.78 J	1.4 J [0.99 J]	0.82 J	0.44 J	0.50 J	0.094 J
Benzo(a)anthracene	mg/kg	ND(1.1)	0.16 J	ND(6.6)	ND(1.4)	ND(1.7)	0.94 J [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	0.080 J
Benzo(a)pyrene	mg/kg	ND(1.1)	0.073 J	ND(6.6)	ND(1.4)	0.25 J	0.47 J [0.35 J]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Benzo(b)fluoranthene	mg/kg	ND(1.1)	0.14 J	ND(6.6)	ND(1.4)	0.46 J	0.98 J [0.69 J]	0.15 J	ND(2.6)	ND(3.0)	ND(0.74 J)
Benzo(g,h,i)perylene	mg/kg	ND(1.1)	0.045 J	ND(6.6)	ND(1.4)	0.20 J	0.29 J [0.22 J]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Benzo(k)fluoranthene	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
bis(2-Chloroethyl)ether	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(1.1)	0.099 J	ND(6.6)	0.23 J	0.29 J	1.1 J [0.65 J]	ND(1.3)	ND(2.6)	0.75 J	ND(0.74 J)
Butylbenzylphthalate	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Carbazole	mg/kg	ND(1.1)	0.31	ND(6.6)	ND(1.4)	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Chrysene	mg/kg	ND(1.1)	0.20 J	ND(6.6)	ND(1.4)	0.63 J	1.4 J [0.91 J]	0.22 J	ND(2.6)	0.65 J	0.12 J

See Generic Notes in Table 15.

Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-10	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-13	Secondary Settling Pond SD-13	Secondary Settling Pond SD-13
Location ID:		1.5 - 2	0.9 - 1.4	1.8 - 2.3	2.3 - 2.9	0 - 0.5	1.05 - 1.55	2.1 - 2.6	0 - 0.5	1.45 - 1.95	2.9 - 3.4
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:	Units										
Dibenzofuran	mg/kg	ND(1.1)	0.85	1.6 J	0.39 J	2.2	2.4 [2.5]	0.20 J	1.2 J	1.3 J	0.15 J
Diethylphthalate	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Di-n-Butylphthalate	mg/kg	ND(1.1)	ND(0.29)	6.2 J	1.2 J	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	0.54 J	4.5	ND(0.74 J)
Di-n-Octylphthalate	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	1.1 J [ND(2.1)]	ND(1.3)	ND(2.6)	0.88 J	ND(0.74 J)
Fluoranthene	mg/kg	ND(1.1)	1.9	1.2 J	0.31 J	1.8	2.6 [2.4]	0.42 J	0.80 J	1.0 J	0.17 J
Fluorene	mg/kg	ND(1.1)	0.62	ND(6.6)	0.47 J	1.5 J	2.1 J [1.8 J]	0.32 J	ND(2.6)	1.3 J	0.19 J
Indeno(1,2,3-cd)pyrene	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	ND(2.3) [ND(2.1)]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Isophorone	mg/kg	ND(1.1)	ND(0.29)	ND(6.6)	ND(1.4)	ND(1.7)	1.5 J [0.74 J]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74 J)
Naphthalene	mg/kg	0.18 J	3.6	6.3 J	0.99 J	8.3	8.1 [8.0]	0.67 J	5.0	5.6	1.0 J
Phenanthrene	mg/kg	ND(1.1)	2.1	3.7 J	0.89 J	5.0	6.2 [5.4]	0.80 J	2.5 J	3.0	0.62 J
Phenol	mg/kg	ND(1.1)	2.2	ND(6.6)	ND(1.4)	2.5	0.49 J [0.61 J]	ND(1.3)	ND(2.6)	ND(3.0)	ND(0.74)
Pyrene	mg/kg	ND(1.1)	0.24 J	0.83 J	0.31 J	0.90 J	1.5 J [1.4 J]	0.28 J	0.50 J	0.72 J	0.12 J
Total Methylphenols	mg/kg	ND(1.1)	1.5	ND(6.6)	ND(1.4)	1.9	0.60 J [0.68 J]	ND(1.3)	0.72 J	ND(3.0)	0.10 J

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-14	Secondary Settling Pond SD-14	Secondary Settling Pond SD-14	Secondary Settling Pond SD-15	Secondary Settling Pond SD-15	Secondary Settling Pond SD-15	Secondary Settling Pond SD-16	Secondary Settling Pond SD-16	Secondary Settling Pond SD-16	Secondary Settling Pond SD-17
Location ID:		SD-14	SD-14	SD-14	SD-15	SD-15	SD-15	SD-16	SD-16	SD-16	SD-17
Sample Depth (ft BGS):		0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	1.1 - 1.6	2.2 - 2.7	0 - 0.5
Date Collected:	Units	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Semivolatile Organics											
1,2,4-Trichlorobenzene	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	0.068 J	ND(1.3)	ND(1.0)	ND(0.54)	ND(0.65) [ND(0.53)]
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	R [R]
2,4-Dimethylphenol	mg/kg	0.91 J	0.60 J	ND(1.4)	0.61 J	0.48 J	0.066 J	0.94 J	0.88 J	0.20 J	0.90 [0.62]
2-Methylnaphthalene	mg/kg	4.6	5.4	1.1 J	3.9	4.0	0.60	3.9	7.0 J	0.53 J	6.6 [4.7]
2-Methylphenol	mg/kg	0.97 J	ND(2.3)	ND(1.4)	0.61 J	0.32 J	0.041 J	0.77 J	0.65 J	ND(0.54)	0.56 J [0.40]
3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.55 [0.37]
4-Methylphenol	mg/kg	0.64 J	ND(2.3)	ND(1.4)	0.55 J	0.35 J	0.058 J	0.58 J	0.73 J	ND(0.54)	0.55 [0.37]
4-Nitroquinoline-1-oxide	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	R [ND(5.3)]
Acenaphthene	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	0.29 J	0.053 J	ND(1.3)	0.38 J	ND(0.54)	0.40 J [0.25 J] 0.33 J [ND(0.53)]
Acetophenone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Anthracene	mg/kg	0.35 J	0.62 J	0.15 J	ND(2.4)	0.43 J	0.076 J	0.32 J	0.50 J	ND(0.54)	0.62 J [0.45 J]
Benzo(a)anthracene	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	0.27 J	0.075 J	ND(1.3)	0.31 J	ND(0.54)	0.33 J [0.26 J]
Benzo(a)pyrene	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	0.25 J	ND(0.54)	0.18 J [0.12 J]
Benzo(b)fluoranthene	mg/kg	ND(1.7)	0.38 J	ND(1.4)	ND(2.4)	ND(1.9)	0.053 J	ND(1.3)	0.39 J	ND(0.54)	0.35 J [0.25 J]
Benzo(g,h,i)perylene	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	0.15 J	ND(0.54)	0.14 J [0.093 J]
Benzo(k)fluoranthene	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	ND(1.0 J)	ND(0.54)	ND(0.65) [ND(0.53)]
bis(2-Chloroethyl)ether	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	ND(1.0 J)	0.41 J (IDWP)	ND(0.65) [ND(0.53)]
bis(2-Ethylhexyl)phthalate	mg/kg	ND(1.7)	1.1 J	0.23 J	0.28 J	1.1 J	0.099 J	ND(1.3)	0.19 J	ND(0.54)	0.12 J [ND(0.53)]
Butylbenzylphthalate	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4 J)	ND(1.9 J)	ND(0.30 J)	ND(1.3)	ND(1.0 J)	ND(0.54)	ND(0.65) [ND(0.53)]
Carbazole	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	0.12 J	ND(0.54)	NA
Chrysene	mg/kg	0.35 J	0.66 J	ND(1.4)	0.27 J	0.43 J	0.13 J	ND(1.3)	0.51 J	0.10 J	0.55 J [0.40]

See Generic Notes in Table 15.

Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond
Location ID:	Units	SD-14	SD-14	SD-14	SD-15	SD-15	SD-15	SD-16	SD-16	SD-16	SD-17
Sample Depth (ft BGS):		0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	1.1 - 1.6	2.2 - 2.7	0 - 0.5
Date Collected:		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Dibenzofuran	mg/kg	1.1 J	1.6 J	0.30 J	0.91 J	0.93 J	0.11 J	0.90 J	0.94 J	0.12 J	1.6 [1.1]
Diethylphthalate	mg/kg	0.76 J	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	ND(1.0 J)	ND(0.54)	ND(0.65) [ND(0.53)]
Di-n-Butylphthalate	mg/kg	7.6	1.5 J	1.2 J	ND(2.4)	ND(1.9)	ND(0.30)	2.1	0.36 J	5.6	0.46 J [6.6]
Di-n-Octylphthalate	mg/kg	ND(1.7)	1.7 J	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	ND(1.0 J)	ND(0.54)	ND(0.65) [ND(0.53)]
Fluoranthene	mg/kg	0.72 J	1.1 J	0.34 J	0.53 J	0.74 J	0.20 J	0.54 J	1.2 J	0.15 J	1.1 [0.80]
Fluorene	mg/kg	0.70 J	1.0 J	0.37 J	0.56 J	0.85 J	0.18 J	ND(1.3)	1.1 J	ND(0.54)	1.3 [0.93]
Indeno(1,2,3-cd)pyrene	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	ND(1.0 J)	ND(0.54)	ND(0.65) [ND(0.53)]
Isophorone	mg/kg	ND(1.7)	ND(2.3)	ND(1.4)	ND(2.4)	ND(1.9)	ND(0.30)	ND(1.3)	ND(1.0 J)	ND(0.54)	0.62 J [0.49]
Naphthalene	mg/kg	4.1	4.5	0.76 J	3.8	3.4	0.45	3.4	4.8 J	0.68	5.9 [4.4]
Phenanthrene	mg/kg	2.2	2.9	0.78 J	1.7 J	2.3	0.43	1.9	3.4 J	0.43 J	4.4 [3.2]
Phenol	mg/kg	1.1 J	0.47 J	ND(1.4)	0.74 J	ND(1.9)	0.040 J	0.84 J	0.53 J	ND(0.54)	0.44 J [0.29]
Pyrene	mg/kg	0.40 J	0.90 J	0.35 J	0.41 J	0.69 J	0.18 J	0.33 J	0.70 J	0.098 J	0.56 J [0.39]
Total Methylphenols	mg/kg	0.97 J	ND(2.3)	ND(1.4)	0.61 J	0.32 J	0.041 J	0.77 J	0.65 J	ND(0.54)	1.1 J [0.77]

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-19	Secondary Settling Pond SD-19	Secondary Settling Pond SD-19	Secondary Settling Pond SD-20	Secondary Settling Pond SD-20
Location ID:		0.95 - 1.45	1.9 - 2.4	0 - 0.5	2.25 - 2.75	4.5 - 5	0 - 0.5	1.75 - 2.25	3.5 - 4	0 - 1	0.7 - 1.2
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:	Units										
Semivolatile Organics											
1,2,4-Trichlorobenzene	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
1,3,5-Trinitrobenzene	mg/kg	R	R	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	0.34 J	0.46 J	0.35 J	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	0.35 J	ND(4.5)	ND(2.0)
2-Methylnaphthalene	mg/kg	2.3	2.5	2.1	6.4	0.64	8.3	5.4	1.9	2.8 J	3.0
2-Methylphenol	mg/kg	0.16 J	0.27 J	0.26 J	ND(3.6)	0.075 J	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
3-Methylphenol	mg/kg	0.17 J	0.30 J	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	0.17 J	0.30 J	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
4-Nitroquinoline-1-oxide	mg/kg	ND(7.2 J)	R	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	0.15 J	0.22 J	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Acetophenone	mg/kg	ND(0.72)	ND(1.3)	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	0.25 J	0.22 J	0.19 J	0.69 J	0.092 J	0.75 J	0.47 J	0.15 J	ND(4.5)	0.34 J
Benzo(a)anthracene	mg/kg	0.18 J	0.17 J	ND(0.87)	ND(3.6)	0.051 J	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Benzo(a)pyrene	mg/kg	0.10 J	ND(1.3)	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Benzo(b)fluoranthene	mg/kg	0.16 J	ND(1.3)	ND(0.87)	0.41 J	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Benzo(g,h,i)perylene	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Benzo(k)fluoranthene	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
bis(2-Chloroethyl)ether	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	2.6 J	0.27 J	ND(5.1)	3.6	ND(0.97)	ND(4.5)	1.2 J
Butylbenzylphthalate	mg/kg	ND(0.72)	0.34 J	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Carbazole	mg/kg	NA	NA	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Chrysene	mg/kg	0.26 J	0.26 J	ND(0.87)	ND(3.6)	0.082 J	ND(5.1)	ND(3.5)	0.18 J	ND(4.5)	ND(2.0)

See Generic Notes in Table 15.

Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-19	Secondary Settling Pond SD-19	Secondary Settling Pond SD-19	Secondary Settling Pond SD-20	Secondary Settling Pond SD-20
Location ID:		0.95 - 1.45	1.9 - 2.4	0 - 0.5	2.25 - 2.75	4.5 - 5	0 - 0.5	1.75 - 2.25	3.5 - 4	0 - 1	0.7 - 1.2
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:	Units										
Dibenzofuran	mg/kg	0.54 J	0.41 J	0.50 J	1.4 J	0.13 J	1.7 J	1.0 J	0.35 J	0.63 J	0.74 J
Diethylphthalate	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	ND(3.6)	0.57	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Di-n-Butylphthalate	mg/kg	ND(0.72)	3.9	0.19 J	8.7	5.1	ND(5.1)	ND(3.5)	0.27 J	3.4 J	ND(2.0)
Di-n-Octylphthalate	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	3.5 J	0.32 J	ND(5.1)	5.0	ND(0.97)	ND(4.5)	1.4 J
Fluoranthene	mg/kg	0.40 J	0.42 J	0.29 J	1.1 J	0.11 J	1.1 J	0.90 J	0.21 J	ND(4.5)	0.59 J
Fluorene	mg/kg	0.53 J	0.50 J	0.38 J	1.5 J	0.16 J	1.4 J	1.1 J	0.32 J	ND(4.5)	0.70 J
Indeno(1,2,3-cd)pyrene	mg/kg	ND(0.72)	ND(1.3)	ND(0.87)	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Isophorone	mg/kg	0.77	ND(1.3)	0.40 J	ND(3.6)	ND(0.49)	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)
Naphthalene	mg/kg	2.0	2.1	2.0	6.1	0.56	8.1	4.1	1.4	2.4 J	2.2
Phenanthrene	mg/kg	1.7	1.6	1.3	4.3	0.46 J	4.0 J	3.1 J	0.96 J	1.5 J	1.7 J
Phenol	mg/kg	0.098 J	ND(1.3)	0.20 J	ND(3.6)	ND(0.49)	ND(5.1)	0.51 J	ND(0.97)	ND(4.5)	ND(2.0)
Pyrene	mg/kg	0.25 J	0.25 J	0.20 J	1.0 J	0.10 J	0.88 J	0.72 J	0.26 J	ND(4.5)	0.48 J
Total Methylphenols	mg/kg	0.33 J	0.57 J	0.26 J	ND(3.6)	0.075 J	ND(5.1)	ND(3.5)	ND(0.97)	ND(4.5)	ND(2.0)

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-20	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Storm Water Pond SD-08	Storm Water Pond SD-08	Storm Water Pond SD-08
Location ID:		SD-20	SD-21	SD-21	SD-21	SD-08	SD-08	SD-08
Sample Depth (ft BGS):		1.4 - 1.9	0 - 0.5	0.65 - 1.15	1.3 - 1.8	0 - 1.5	1.5 - 3	3 - 4.5
Date Collected:	Units	06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95	06/21/95
Semivolatile Organics								
1,2,4-Trichlorobenzene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
1,3,5-Trinitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	0.19 J	ND(1.4)	ND(0.22)
2-Methylnaphthalene	mg/kg	0.59 J	6.6 J	4.6	1.0	0.71	1.5	0.22 J
2-Methylphenol	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	0.18 J	ND(1.4)	ND(0.22)
3-Methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	0.14 J	ND(1.4)	ND(0.22)
4-Nitroquinoline-1-oxide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Acetophenone	mg/kg	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	ND(1.5)	ND(9.8)	0.41 J	0.12 J	ND(0.28)	ND(1.4)	ND(0.22)
Benzo(a)anthracene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	0.11 J	ND(0.28)	ND(1.4)	ND(0.22)
Benzo(a)pyrene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Benzo(b)fluoranthene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Benzo(g,h,i)perylene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Benzo(k)fluoranthene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
bis(2-Chloroethyl)ether	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
bis(2-Ethylhexyl)phthalate	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	0.13 J	ND(0.28)	ND(1.4)	0.035 J
Butylbenzylphthalate	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Carbazole	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Chrysene	mg/kg	ND(1.5)	ND(9.8)	0.52 J	0.16 J	ND(0.28)	ND(1.4)	ND(0.22)

See Generic Notes in Table 15.

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Table 11. Semivolatile Organic Compounds Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Secondary Settling Pond SD-20 1.4 - 1.9 06/20/95	Secondary Settling Pond SD-21 0 - 0.5 06/20/95	Secondary Settling Pond SD-21 0.65 - 1.15 06/20/95	Secondary Settling Pond SD-21 1.3 - 1.8 06/20/95	Storm Water Pond SD-08 0 - 1.5 06/21/95	Storm Water Pond SD-08 1.5 - 3 06/21/95	Storm Water Pond SD-08 3 - 4.5 06/21/95
Dibenzofuran	mg/kg	ND(1.5)	1.5 J	1.2 J	0.33 J	0.12 J	0.26 J	0.048 J
Diethylphthalate	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Di-n-Butylphthalate	mg/kg	1.3 J	ND(9.8)	0.75 J	0.34 J	ND(0.28)	ND(1.4)	0.043 J
Di-n-Octylphthalate	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	0.087 J	ND(0.28)	ND(1.4)	ND(0.22)
Fluoranthene	mg/kg	ND(1.5)	ND(9.8)	0.76 J	0.24 J	ND(0.28)	0.21 J	0.060 J
Fluorene	mg/kg	ND(1.5)	ND(9.8)	0.89 J	0.25 J	ND(0.28)	ND(1.4)	ND(0.22)
Indeno(1,2,3-cd)pyrene	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Isophorone	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	0.40 J	ND(0.28)	ND(1.4)	ND(0.22)
Naphthalene	mg/kg	0.42 J	6.6 J	3.7	0.81	0.71	1.5	0.22 J
Phenanthrene	mg/kg	0.51 J	3.9 J	2.2 J	0.61 J	0.29	0.72 J	0.14 J
Phenol	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	ND(0.28)	ND(1.4)	ND(0.22)
Pyrene	mg/kg	ND(1.5)	ND(9.8)	0.60 J	0.17 J	ND(0.28)	0.22 J	0.042 J
Total Methylphenols	mg/kg	ND(1.5)	ND(9.8)	ND(2.6)	ND(0.72)	0.18 J	ND(1.4)	ND(0.22)

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Generic MDEQ Criteria Values						Northern Drainage Channels SD-01 0 - 1.5 06/15/95	Northern Drainage Channels SD-01 1.5 - 3 06/15/95	Northern Drainage Channels SD-01 3 - 4.5 06/15/95	Northern Drainage Channels SD-02 0 - 1.7 06/15/95	Northern Drainage Channels SD-02 1.7 - 3.4 06/15/95
		GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI					
PCBs												
Aroclor-1242	mg/kg	--	--	--	--	--	--	0.24 J	0.36	ND(0.47)	ND(0.27)	0.16 J
Aroclor-1248	mg/kg	--	--	--	--	--	--	ND(0.27)	ND(0.25)	ND(0.47)	ND(0.27)	ND(0.32)
Aroclor-1254	mg/kg	--	--	--	--	--	--	0.32	0.42	ND(0.47)	0.20 J	ND(0.32)
Aroclor-1260	mg/kg	--	--	--	--	--	--	ND(0.27)	ND(0.25)	ND(0.47)	ND(0.27)	0.35
Total PCBs	mg/kg	{NLL}	16 {J,T}	{NLL}	6,500 {J,T}	16,000 {J,T}	810 {J,T}	0.56 J	0.78	ND(0.47)	0.20 J	0.51 J
Organochlorine Pesticides												
Endosulfan Sulfate	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA
Kepone	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA
Herbicides												
None Detected	--	--	--	--	--	--	--	NA	NA	NA	NA	NA
Dioxins/Furans												
2,3,7,8-TCDD	pg/g	{NLL}	{O}	{NLL}	{O}	{NLV}	{NLV}	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	pg/g	--	--	--	--	--	--	NA	NA	NA	NA	NA
Total Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--	--	--	NA	NA	NA	NA	NA
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--	--	--	NA	NA	NA	NA	NA
Total Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--	--	--	NA	NA	NA	NA	NA
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--	--	--	NA	NA	NA	NA	NA
Total Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--	--	--	NA	NA	NA	NA	NA
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--	--	--	NA	NA	NA	NA	NA
Miscellaneous												
Total Solids	%	--	--	--	--	--	--	60.7	65.5	71.3	61.1	51.5

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-02	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-03	Northern Drainage Channels SD-04	Northern Drainage Channels SD-04	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05	Northern Drainage Channels SD-05
Location ID:		3.4 - 5	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 1.6	1.8 - 3.6	3.6 - 5.4
Sample Depth (ft BGS):		06/15/95	06/15/95	06/15/95	06/15/95	06/19/95	06/19/95	06/21/95	06/21/95	06/21/95
Date Collected:	Units									
PCBs										
Aroclor-1242	mg/kg	ND(0.21)	ND(0.36) [ND(0.35)]	ND(0.24)	ND(0.20)	ND(0.22)	ND(0.23)	ND(0.22)	ND(0.26)	ND(0.23)
Aroclor-1248	mg/kg	ND(0.21)	ND(0.36) [ND(0.35)]	ND(0.24)	ND(0.20)	ND(0.22)	ND(0.23)	ND(0.22)	ND(0.26)	ND(0.23)
Aroclor-1254	mg/kg	ND(0.21)	0.36 J [ND(0.35)]	0.099 J	ND(0.20)	ND(0.22)	ND(0.23)	ND(0.22)	ND(0.26)	ND(0.23)
Aroclor-1260	mg/kg	ND(0.21)	0.47 [0.38]	ND(0.24)	0.14 J	0.099 J	ND(0.23)	ND(0.22)	ND(0.26)	ND(0.23)
Total PCBs	mg/kg	ND(0.21)	0.83 J [0.38]	0.099 J	0.14 J	0.099 J	ND(0.23)	ND(0.22)	ND(0.26)	ND(0.23)
Organochlorine Pesticides										
Endosulfan Sulfate	mg/kg	NA	NA	NA	NA	NA	NA	ND(0.0045 *)	0.0052 *	ND(0.0023)
Kepone	mg/kg	NA	NA	NA	NA	NA	NA	ND(0.11)	ND(0.13)	ND(0.11)
Herbicides										
None Detected	--	NA	NA	NA	NA	NA	NA	--	--	--
Dioxins/Furans										
2,3,7,8-TCDD	pg/g	NA	NA	NA	NA	NA	NA	5.8 J	8.7	ND(1.3)
2,3,7,8-TCDD (TEQ)	pg/g	NA	NA	NA	NA	NA	NA	27	58	1.4
Total Hexachlorodibenzofuran (HxCDF)	pg/g	NA	NA	NA	NA	NA	NA	130	130	ND(3)
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	NA	NA	NA	NA	NA	NA	140	240	13
Total Pentachlorodibenzofuran (PeCDF)	pg/g	NA	NA	NA	NA	NA	NA	94	210	ND(6.6)
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	NA	NA	NA	NA	NA	NA	9.9	32	ND(2.4)
Total Tetrachlorodibenzofuran (TCDF)	pg/g	NA	NA	NA	NA	NA	NA	260	470	40
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	NA	NA	NA	NA	NA	NA	ND(50)	ND(5)	ND(5)
Miscellaneous										
Total Solids	%	79.5	45.9 [47.2]	68.8	81	75	70.6	74.6	63.5	73

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-06	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-09	Northern Drainage Channels SD-09	Secondary Settling Pond SD-10
Location ID:		0 - 1.6	1.6 - 3.2	3.2 - 4.8	0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 0.5
Sample Depth (ft BGS):		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/20/95
Date Collected:	Units									
PCBs										
Aroclor-1242	mg/kg	ND(0.26)	ND(0.27)	ND(0.22)	ND(0.20)	0.98	ND(0.25)	ND(0.20) [ND(0.21)]	ND(0.23)	ND(0.32 J)
Aroclor-1248	mg/kg	ND(0.26)	ND(0.27)	ND(0.22)	ND(0.20)	ND(0.25)	ND(0.25)	0.29 [0.33]	ND(0.23)	ND(0.32 J)
Aroclor-1254	mg/kg	ND(0.26)	ND(0.27)	ND(0.22)	0.63	1.3	0.30	ND(0.20) [ND(0.21)]	ND(0.23)	ND(0.32 J)
Aroclor-1260	mg/kg	ND(0.26)	ND(0.27)	ND(0.22)	ND(0.20)	ND(0.50)	ND(0.25)	0.12 J [0.12 J]	ND(0.23)	0.32 J
Total PCBs	mg/kg	ND(0.26)	ND(0.27)	ND(0.22)	0.63	2.3	0.30	0.41 J [0.45 J]	ND(0.23)	0.32 J
Organochlorine Pesticides										
Endosulfan Sulfate	mg/kg	ND(0.0052 *)	ND(0.0054 *)	ND(0.0045 *)	ND(0.016)	ND(0.05)	ND(0.02)	NA	NA	NA
Kepone	mg/kg	ND(0.12)	ND(0.13)	ND(0.11)	0.21 *	ND(0.4)	ND(0.16)	NA	NA	NA
Herbicides										
None Detected	--	--	--	--	--	--	--	NA	NA	NA
Dioxins/Furans										
2,3,7,8-TCDD	pg/g	4 J	8	ND(1.4)	13	6.4 J	11	NA	NA	NA
2,3,7,8-TCDD (TEQ)	pg/g	52	117	16	47	645	293	NA	NA	NA
Total Hexachlorodibenzofuran (HxCDF)	pg/g	63	200 J	19	82	370	480	NA	NA	NA
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	52	140	16	79	95	200	NA	NA	NA
Total Pentachlorodibenzofuran (PeCDF)	pg/g	290	570	56	160	2,500	1,300	NA	NA	NA
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	ND(6.7)	20 J	ND(2.8)	ND(6.5)	ND(11)	50	NA	NA	NA
Total Tetrachlorodibenzofuran (TCDF)	pg/g	620	1,200	200	390	6,600	2,400	NA	NA	NA
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	NA	NA	NA
Miscellaneous										
Total Solids	%	64.2	61.8	73.7	82.1	66.3	66.3	82.7 [79.4]	70.6	51.3

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-10	Secondary Settling Pond SD-10	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-12	Secondary Settling Pond SD-13
Location ID:		0.75 - 1.25	1.5 - 2	0.9 - 1.4	1.8 - 2.3	2.3 - 2.9	0 - 0.5	1.05 - 1.55	2.1 - 2.6	0 - 0.5
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:	Units									
PCBs										
Aroclor-1242	mg/kg	ND(0.34)	ND(0.23)	ND(0.29)	ND(0.33)	ND(0.35)	ND(0.43)	ND(0.58 J) [ND(0.53 J)]	ND(0.33)	ND(0.51)
Aroclor-1248	mg/kg	0.15 J	ND(0.23)	ND(0.29)	ND(0.33)	0.23 J	ND(0.43)	ND(0.58 J) [ND(0.53 J)]	0.46	0.33 J
Aroclor-1254	mg/kg	ND(0.34)	ND(0.23)	ND(0.29)	ND(0.33)	ND(0.35)	ND(0.43)	0.92 J [ND(0.53 J)]	0.37	ND(0.51)
Aroclor-1260	mg/kg	0.65	ND(0.23)	ND(0.29)	ND(0.33)	ND(0.35)	ND(0.43)	ND(0.58 J) [ND(0.53 J)]	ND(0.33)	ND(0.51)
Total PCBs	mg/kg	0.80 J	ND(0.23)	ND(0.29)	ND(0.33)	0.23 J	ND(0.43)	0.92 J [ND(0.53 J)]	0.83	0.33 J
Organochlorine Pesticides										
Endosulfan Sulfate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kepone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Herbicides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
2,3,7,8-TCDD	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Hexachlorodibenzofuran (HxCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Pentachlorodibenzofuran (PeCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Tetrachlorodibenzofuran (TCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Total Solids	%	48.7	73.3	56	50.2	46.5	38.6	28.5 [30.9]	50	32.3

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-13	Secondary Settling Pond SD-13	Secondary Settling Pond SD-14	Secondary Settling Pond SD-14	Secondary Settling Pond SD-14	Secondary Settling Pond SD-15	Secondary Settling Pond SD-15	Secondary Settling Pond SD-15	Secondary Settling Pond SD-16
Location ID:		1.45 - 1.95	2.9 - 3.4	0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:	Units									
PCBs										
Aroclor-1242	mg/kg	ND(0.60)	ND(0.30)	ND(0.43)	ND(0.59)	ND(0.34)	ND(0.47)	ND(0.47)	ND(0.30)	ND(0.33 J)
Aroclor-1248	mg/kg	ND(0.60)	ND(0.30)	ND(0.43)	ND(0.59)	ND(0.34)	ND(0.47)	ND(0.47)	ND(0.30)	ND(0.33 J)
Aroclor-1254	mg/kg	0.49 J	ND(0.30)	ND(0.43)	ND(0.59)	ND(0.34)	ND(0.47)	ND(0.47)	ND(0.30)	0.49
Aroclor-1260	mg/kg	ND(0.60)	ND(0.30)	ND(0.43)	ND(0.59)	ND(0.34)	ND(0.47)	ND(0.47)	ND(0.30)	ND(0.33 J)
Total PCBs	mg/kg	0.49 J	ND(0.30)	ND(0.43)	ND(0.59)	ND(0.34)	ND(0.47)	ND(0.47)	ND(0.30)	0.49
Organochlorine Pesticides										
Endosulfan Sulfate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kepone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Herbicides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans										
2,3,7,8-TCDD	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Hexachlorodibenzofuran (HxCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Pentachlorodibenzofuran (PeCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Tetrachlorodibenzofuran (TCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous										
Total Solids	%	27.7	55.6	38	28.1	48.3	34.9	34.8	54.1	50.1

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-16	Secondary Settling Pond SD-16	Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-19
Location ID:		SD-16	SD-16	SD-17	SD-17	SD-17	SD-18	SD-18	SD-18	SD-19
Sample Depth (ft BGS):		1.1 - 1.6	2.2 - 2.7	0 - 0.5	0.95 - 1.45	1.9 - 2.4	0 - 0.5	2.25 - 2.75	4.5 - 5	0 - 0.5
Date Collected:	Units	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
PCBs										
Aroclor-1242	mg/kg	ND(0.26 J)	ND(0.27)	ND(0.26) [ND(0.27)]	ND(0.29)	ND(0.26)	ND(0.35)	ND(0.36)	ND(0.25)	ND(0.51)
Aroclor-1248	mg/kg	ND(0.26)	ND(0.27)	ND(0.26) [ND(0.27)]	ND(0.29)	ND(0.26)	ND(0.35)	ND(0.36)	ND(0.25)	ND(0.51)
Aroclor-1254	mg/kg	1.1 J	0.29	ND(0.26) [ND(0.27)]	ND(0.29)	0.82	ND(0.35)	ND(0.36)	ND(0.25)	ND(0.51)
Aroclor-1260	mg/kg	ND(0.26 J)	ND(0.27)	ND(0.26) [ND(0.27)]	ND(0.29)	ND(0.26)	ND(0.35)	ND(0.36)	ND(0.25)	ND(0.51)
Total PCBs	mg/kg	1.1 J	0.29	ND(0.26) [ND(0.27)]	ND(0.29)	0.82	ND(0.35)	ND(0.36)	ND(0.25)	ND(0.51)
Organochlorine Pesticides										
Endosulfan Sulfate	mg/kg	NA	NA	ND(0.0042 J*) [ND(0.0054 J*)]	ND(0.012 J*)	ND(0.01 J)	NA	NA	NA	NA
Kepone	mg/kg	NA	NA	ND(0.13) [ND(0.13)]	ND(0.14)	ND(0.12)	NA	NA	NA	NA
Herbicides										
None Detected	--	NA	NA	-- [-]	--	--	NA	NA	NA	NA
Dioxins/Furans										
2,3,7,8-TCDD	pg/g	NA	NA	ND(1.8) [1.9 J]	6.5 J	14	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	pg/g	NA	NA	20 [17]	40	94	NA	NA	NA	NA
Total Hexachlorodibenzofuran (HxCDF)	pg/g	NA	NA	38 [20]	69	430	NA	NA	NA	NA
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	NA	NA	45 [36]	230	530	NA	NA	NA	NA
Total Pentachlorodibenzofuran (PeCDF)	pg/g	NA	NA	140 [68]	220	470	NA	NA	NA	NA
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	NA	NA	ND(5.2) [ND(4.7)]	11	95	NA	NA	NA	NA
Total Tetrachlorodibenzofuran (TCDF)	pg/g	NA	NA	570 [440]	680	1,000	NA	NA	NA	NA
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	NA	NA	16 [19]	69	130	NA	NA	NA	NA
Miscellaneous										
Total Solids	%	64.5	61.5	63.9 [61.8]	57.2	64.5	47.6	45.8	67.3	32.4

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-19	Secondary Settling Pond SD-19	Secondary Settling Pond SD-20	Secondary Settling Pond SD-20	Secondary Settling Pond SD-20	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Stormwater pond SD-08
Location ID:		1.75 - 2.25	3.5 - 4	0 - 1	0.7 - 1.2	1.4 - 1.9	0 - 0.5	0.65 - 1.15	1.3 - 1.8	0 - 1.5
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/21/95
Date Collected:	Units									
PCBs										
Aroclor-1242	mg/kg	ND(0.35)	ND(0.24)	ND(0.45)	ND(0.50)	ND(0.31)	ND(0.49)	ND(0.53)	ND(0.29)	ND(0.28)
Aroclor-1248	mg/kg	0.38	ND(0.24)	ND(0.45)	ND(0.50)	0.45	ND(0.49)	ND(0.53)	ND(0.29)	ND(0.28)
Aroclor-1254	mg/kg	0.76	0.53	ND(0.45)	ND(0.50)	0.48	ND(0.49)	ND(0.53)	ND(0.29)	ND(0.28)
Aroclor-1260	mg/kg	ND(0.35)	ND(0.24)	ND(0.45)	ND(0.50)	ND(0.31)	ND(0.49)	ND(0.53)	ND(0.29)	ND(0.28)
Total PCBs	mg/kg	1.1	0.53	ND(0.45)	ND(0.50)	0.93	ND(0.49)	ND(0.53)	ND(0.29)	ND(0.28)
Organochlorine Pesticides										
Endosulfan Sulfate	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0028)
Kepone	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	ND(0.14)
Herbicides										
None Detected	--	NA	NA	NA	NA	NA	NA	NA	NA	--
Dioxins/Furans										
2,3,7,8-TCDD	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	2.8 J
2,3,7,8-TCDD (TEQ)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	56
Total Hexachlorodibenzofuran (HxCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	75
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	37
Total Pentachlorodibenzofuran (PeCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	350 J
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.9)
Total Tetrachlorodibenzofuran (TCDF)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	730
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	NA	NA	NA	NA	NA	NA	NA	NA	ND(5)
Miscellaneous										
Total Solids	%	47.5	68.3	37	32.8	53.7	33.8	31.1	57.1	58.6

See Generic Notes in Table 15.

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Table 12. Polychlorinated Biphenyls, Pesticides, Herbicides, and Dioxin/Furans Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Stormwater pond SD-08	Stormwater pond SD-08	Stormwater pond SD-49	Stormwater pond SD-50	Stormwater pond SD-51	Stormwater pond SD-52
Location ID:		1.5 - 3	3 - 4.5	0 - 1	0 - 1	0 - 1	0 - 1
Sample Depth (ft BGS):		06/21/95	06/21/95	08/06/98	08/06/98	08/06/98	08/06/98
Date Collected:	Units						
PCBs							
Aroclor-1242	mg/kg	ND(0.28)	ND(0.22)	1.7	ND(0.33)	ND(0.33)	1.2 [2.7]
Aroclor-1248	mg/kg	ND(0.28)	ND(0.22)	ND(0.38)	ND(0.33)	ND(0.33)	ND(0.33) [ND(0.33)]
Aroclor-1254	mg/kg	ND(0.28)	ND(0.22)	ND(0.38)	ND(0.33)	ND(0.33)	ND(0.33) [ND(0.33)]
Aroclor-1260	mg/kg	ND(0.28)	ND(0.22)	0.86	ND(0.33)	ND(0.33)	1.6 [4.0]
Total PCBs	mg/kg	ND(0.28)	ND(0.22)	2.6	ND(0.33)	ND(0.33)	2.8 [6.7]
Organochlorine Pesticides							
Endosulfan Sulfate	mg/kg	ND(0.0056 *)	ND(0.0089 *)	NA	NA	NA	NA
Kepone	mg/kg	ND(0.13)	ND(0.11)	NA	NA	NA	NA
Herbicides							
None Detected	--	--	--	NA	NA	NA	NA
Dioxins/Furans							
2,3,7,8-TCDD	pg/g	2.6 J	1.8 J	NA	NA	NA	NA
2,3,7,8-TCDD (TEQ)	pg/g	39	21	NA	NA	NA	NA
Total Hexachlorodibenzofuran (HxCDF)	pg/g	57	44	NA	NA	NA	NA
Total Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	49	64	NA	NA	NA	NA
Total Pentachlorodibenzofuran (PeCDF)	pg/g	330 J	120	NA	NA	NA	NA
Total Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	ND(5.4)	ND(6.5)	NA	NA	NA	NA
Total Tetrachlorodibenzofuran (TCDF)	pg/g	720	280	NA	NA	NA	NA
Total Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	ND(5)	ND(5)	NA	NA	NA	NA
Miscellaneous							
Total Solids	%	59.6	74.5	NA	NA	NA	NA

See Generic Notes in Table 15.

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Table 13. Inorganic Constituents Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area: Location ID: Sample Depth (ft BGS): Date Collected:	Units	Generic MDEQ Criteria Values						Northern Drainage Channels SD-01 0 - 1.5 06/15/95	Northern Drainage Channels SD-01 1.5 - 3 06/15/95	Northern Drainage Channels SD-01 3 - 4.5 06/15/95	Northern Drainage Channels SD-02 0 - 1.7 06/15/95	Northern Drainage Channels SD-02 1.7 - 3.4 06/15/95	Northern Drainage Channels SD-02 3.4 - 5 06/15/95
		GCCP	IDC	IDWP	IPSIC	ISVIA	IVSICI						
Inorganics													
Aluminum	mg/kg	1,000,000 (B,D)	370,000 (B,DD)	6,900 (SDBL)	{ID}	{NLV}	{NLV}	12,500 (IDWP)	11,200 (IDWP)	8,700 (IDWP)	13,600 (IDWP)	11,600 (IDWP)	13,900 (IDWP)
Antimony	mg/kg	49,000	670	4.3	5,900	{NLV}	{NLV}	1.63 J	ND(0.763 J)	ND(0.701 J)	ND(0.818 J)	ND(0.971 J)	1.33 J
Arsenic	mg/kg	2,000	37	23	910	{NLV}	{NLV}	9.03	17.7	10.2	7.69	11.1	8.43
Barium	mg/kg	1,000,000 (B,D)	130,000 (B)	1,300 (B)	150,000 (B)	{NLV}	{NLV}	92.3	94.6	81.0	100	88.6	103
Beryllium	mg/kg	1,000,000 (D)	1,600	51	590	{NLV}	{NLV}	0.989	0.763	ND(0.701)	1.06	1.17	0.881
Cadmium	mg/kg	230,000 (B)	2,100 (B)	6 (B)	2,200 (B)	{NLV}	{NLV}	1.10	1.08	0.335	0.936	0.407	0.109
Calcium	mg/kg	--	--	--	--	--	--	28,300	42,300	42,300	34,600	28,100	39,600
Chromium Total	mg/kg	140,000	9,200	30	240	{NLV}	{NLV}	67.4 (IDWP)	59.9 (IDWP)	34.7 (IDWP)	83.9 (IDWP)	58.7 (IDWP)	84.2 (IDWP)
Copper	mg/kg	1,000,000 (B,D)	73,000 (B)	5,800 (B)	59,000 (B)	{NLV}	{NLV}	66.7 J	87.0 J	41.2 J	40.4 J	ND(60.8 J)	33.2 J
Cyanide (total)	mg/kg	250 (P,R)	250 (P,R)	4 (P,R)	250 (P,R)	{NLV}	{NLV}	ND(0.410 J)	ND(0.380 J)	ND(0.350 J)	ND(0.410 J)	ND(0.490 J)	ND(0.310 J)
Iron	mg/kg	1,000,000 (B,D)	580,000 (B)	12,000 (SDBL)	{ID}	{NLV}	{NLV}	53,500 (IDWP)	35,100 (IDWP)	18,300 (IDWP)	30,500 (IDWP)	50,800 (IDWP)	26,800 (IDWP)
Lead	mg/kg	{ID}	900 (B,DD)	700 (B)	44,000 (B)	{NLV}	{NLV}	101	113	21.3	53.0	43.0	11.2
Magnesium	mg/kg	1,000,000 (B,D)	1,000,000 (B,D)	22,000 (B)	2,900,000 (B)	{NLV}	{NLV}	7,020 J	13,100 J	14,200 J	5,850 J	9,220 J	6,040 J
Manganese	mg/kg	180,000 (B)	90,000 (B)	440 (SDBL)	1,500 (B)	{NLV}	{NLV}	2,370 (IDWP,IPSIC)	1,570 (IDWP,IPSIC)	966 (IDWP)	4,290 (IDWP,IPSIC)	1,870 (IDWP,IPSIC)	4,670 (IDWP,IPSIC)
Mercury	mg/kg	47 (B,Z)	580 (B,Z)	1.7 (B,Z)	8,800 (B,Z)	89 (B,Z)	62 (B,Z)	ND(0.0824)	0.150	0.0859	ND(0.0818)	ND(0.0971)	ND(0.0629)
Nickel	mg/kg	1,000,000 (B,D)	150,000 (B)	100 (B)	16,000 (B)	{NLV}	{NLV}	29.1	30.0	19.8	19.1	31.2	17.7
Potassium	mg/kg	--	--	--	--	--	--	1,350	1,580	1,150	1,380	1,210	1,750
Selenium	mg/kg	78,000 (B)	9,600 (B)	4 (B)	59,000 (B)	{NLV}	{NLV}	1.76 J	1.35 J	ND(0.701 J)	1.09 J	2.29 J	1.31 J
Sodium	mg/kg	1,000,000 (D)	1,000,000 (D)	7,000	{ID}	{NLV}	{NLV}	ND(824)	ND(763)	ND(701)	1,280	1,150	845
Vanadium	mg/kg	1,000,000 (D)	5,500 (DD)	990	{ID}	{NLV}	{NLV}	12.4	17.6	19.6	18.3	12.6	26.4
Zinc	mg/kg	1,000,000 (B,D)	630,000 (B)	5,000 (B)	{ID}	{NLV}	{NLV}	207	185	67.3	1,060	125	36.0

See Notes in Table 15.

Table 13. Inorganic Constituents Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels	Northern Drainage Channels
Location ID:		SD-03	SD-03	SD-03	SD-04	SD-04	SD-05	SD-05	SD-05	SD-06	SD-06	SD-06
Sample Depth (ft BGS):		0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 1.6	1.8 - 3.6	3.6 - 5.4	0 - 1.6	1.6 - 3.2	3.2 - 4.8
Date Collected:	Units	06/15/95	06/15/95	06/15/95	06/19/95	06/19/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
Inorganics												
Aluminum	mg/kg	10,200 (IDWP) [11,600 (IDWP)]	8,130 (IDWP)	6,570	95,600 (IDWP)	3,290	19,200 J (IDWP)	10,400 J (IDWP)	6,770 J	8,460 J (IDWP)	10,400 J (IDWP)	4,080 J
Antimony	mg/kg	ND(1.09 J) [ND(1.06 J)]	ND(0.727 J)	0.708 J	ND(1.33 J)	ND(0.354 J)	ND(6.70 J)	1.20 J	ND(0.685 J)	ND(0.778 J)	1.39 J	0.465 J
Arsenic	mg/kg	9.03 [7.47]	6.22	4.32	3.84	5.31	2.78 J	5.91 J	3.02 J	7.85 J	5.79 J	3.66 J
Barium	mg/kg	82.9 [88.0]	54.9	46.2	89.3	32.0	134	62.6	58.5	56.7	62.8	38.7
Beryllium	mg/kg	1.09 [1.17]	0.873	ND(0.617)	0.734	ND(0.709)	1.41	0.788	ND(0.685)	1.01	0.972	ND(0.678)
Cadmium	mg/kg	2.09 [1.74]	0.342	0.174	0.442	0.115	0.208	0.442	0.166	0.427	0.503	0.147
Calcium	mg/kg	14,200 [14,800] 34.3 (IDWP)	15,900	18,400	41,800	36,700	73,100	24,300	40,800	12,200	24,000	26,300
Chromium Total	mg/kg	[36.5 (IDWP)]	37.9 (IDWP)	34.6 (IDWP)	68.4 (IDWP)	7.65	195 J (IDWP)	44.4 J (IDWP)	44.0 J (IDWP)	29.7 J	43.5 J (IDWP)	13.9 J
Copper	mg/kg	59.7 J [63.7 J]	26.8 J	14.7 J	22.6 J	4.52 J	19.0	43.3	11.7	31.0	43.3	13.1
Cyanide (total)	mg/kg	ND(0.540 J) [0.850 J]	ND(0.360 J)	ND(0.310 J)	ND(0.330 J)	0.510 J	ND(0.340)	ND(0.390)	0.720	ND(0.390)	ND(0.400)	ND(0.340)
Iron	mg/kg	36,300 (IDWP) [37,400 (IDWP)]	34,100 (IDWP)	17,000 (IDWP)	22,300 (IDWP)	7,460	30,700 (IDWP)	42,200 (IDWP)	14,400 (IDWP)	37,600 (IDWP)	46,900 (IDWP)	13,800 (IDWP)
Lead	mg/kg	89.4 [90.0]	21.2	11.6	31.3	2.55	18.4	42.8	6.20	33.3	57.8	11.1
Magnesium	mg/kg	6,780 J [7,340 J]	4,050 J	3,530 J	7,710 J	11,700 J	3,550	10,000	11,000	4,390	9,820	8,500
Manganese	mg/kg	826 (IDWP) [876 (IDWP)]	1,440 (IDWP)	1,800 (IDWP,IPSIC)	4,280 (IDWP,IPSIC)	279	16,700 (IDWP,IPSIC)	1,440 (IDWP)	2,970 (IDWP,IPSIC)	730 (IDWP)	955 (IDWP)	500 (IDWP)
Mercury	mg/kg	ND(0.109) [ND(0.106)]	ND(0.0727)	ND(0.0617)	ND(0.0667)	ND(0.0709)	ND(0.0670)	ND(0.0788)	ND(0.0685)	ND(0.0778)	0.0935	ND(0.0678)
Nickel	mg/kg	23.4 [23.9]	19.7	9.63	13.9	6.73	22.8	22.6	10.8	19.3	24.1	8.34
Potassium	mg/kg	ND(1,090) [1,070]	ND(727)	699	1,120	ND(709)	1,700	1,070	981	ND(778)	944	684
Selenium	mg/kg	3.21 J [2.75 J]	2.46 J	0.723 J	ND(1.33 J)	ND(0.354 J)	ND(6.70 J)	ND(0.788 J)	ND(0.685 J)	ND(0.778 J)	ND(0.810 J)	ND(0.339 J)
Sodium	mg/kg	ND(1,090) [ND(1,060)]	ND(727)	ND(617)	ND(667)	ND(709)	894	ND(788)	ND(685)	ND(778)	ND(810)	ND(678)
Vanadium	mg/kg	10.1 [11.1]	7.56	10.4	18.6	11.5	23.7	8.83	14.5	1.79	5.51	9.02
Zinc	mg/kg	2,560 [2,660]	176	49.1	881	21.0	213	91.7	27.1	280	126	32.8

See Notes in Table 15.

Table 13. Inorganic Constituents Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-07	Northern Drainage Channels SD-09	Northern Drainage Channels SD-09	Secondary Settling Pond SD-10	Secondary Settling Pond SD-10	Secondary Settling Pond SD-10	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11	Secondary Settling Pond SD-11
Location ID:		SD-07	SD-07	SD-07	SD-09	SD-09	SD-10	SD-10	SD-10	SD-11	SD-11	SD-11
Sample Depth (ft BGS):		0 - 1.3	1.3 - 2.6	2.6 - 3.9	0 - 1.5	1.5 - 3	0 - 0.5	0.75 - 1.25	1.5 - 2	0.9 - 1.4	1.8 - 2.3	2.3 - 2.9
Date Collected:	Units	06/21/95	06/21/95	06/21/95	06/21/95	06/21/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Inorganics												
Aluminum	mg/kg	13,900 J (IDWP)	9,760 J (IDWP)	7,950 J (IDWP)	7,500 (IDWP) [11,400 (IDWP)]	3,220	9,160 (IDWP)	8,990 (IDWP)	5,470	14,600 (IDWP)	10,600 (IDWP)	12,000 (IDWP)
Antimony	mg/kg	ND(3.05 J)	1.20 J	1.08 J	ND(3.02 J*) [ND(3.15 J*)]	ND(0.354 J)	ND(0.488 J)	0.903 J	ND(0.341 J)	0.913 J	1.51 J	1.42 J
Arsenic	mg/kg	4.02 J	4.41 J	5.35 J	1.96 [4.72]	9.63	4.83 J	7.49 J	4.48 J	5.68 J	5.62 J	5.94 J
Barium	mg/kg	126	54.4	57.7	77.5 [114]	35.4	86.6	73.4	44.6	117	67.7	93.1
Beryllium	mg/kg	1.04	1.06	0.829	ND(0.604) [0.756]	ND(0.708)	0.975	ND(1.03)	ND(0.683)	1.25	0.997	ND(1.08)
Cadmium	mg/kg	0.339	0.409	0.424	0.171 [0.180]	0.166	1.89	0.968	0.127	1.14	0.485	0.660
Calcium	mg/kg	45,700	11,800	21,200	33,000 J [49,300 J]	38,100 J	5,620	13,500	34,000	6,450	8,360	27,100
Chromium Total	mg/kg	129 J (IDWP)	42.5 J (IDWP)	40.9 J (IDWP)	77.9 (IDWP) [128 (IDWP)]	13.9	29.0	39.1 (IDWP)	17.3	27.0	45.1 (IDWP)	33.0 (IDWP)
Copper	mg/kg	28.0	35.0	40.8	17.1 [23.4]	5.74	65.6	51.3	13.0	50.8	45.7	52.6
Cyanide (total)	mg/kg	ND(0.300)	ND(0.380)	ND(0.380)	ND(0.300) [ND(0.310)]	ND(0.350)	ND(0.490 J)	0.570 J	ND(0.340 J)	ND(0.450 J)	0.660 J	ND(0.540 J)
Iron	mg/kg	37,400 (IDWP)	42,700 (IDWP)	41,300 (IDWP)	19,200 (IDWP) [30,700 (IDWP)]	8,090	32,800 (IDWP)	36,800 (IDWP)	13,000 (IDWP)	32,800 (IDWP)	54,300 (IDWP)	36,500 (IDWP)
Lead	mg/kg	27.6	38.1	50.9	15.6 [15.0]	2.98	101	63.6	19.1	61.0	32.0	163
Magnesium	mg/kg	3,260	3,760	6,870	3,000 [3,290]	11,400	3,640	3,520	12,200	5,520	3,720	10,600
Manganese	mg/kg	10,200 (IDWP,IPSIC)	1,310 (IDWP)	1,650 (IDWP,IPSIC)	6,510 (IDWP,IPSIC) [11,000 (IDWP,IPSIC)]	838 (IDWP)	744 (IDWP)	1,290 (IDWP)	821 (IDWP)	692 (IDWP)	882 (IDWP)	701 (IDWP)
Mercury	mg/kg	ND(0.0609)	0.0823	0.0829	ND(0.0604) [ND(0.0630)]	ND(0.0708)	ND(0.0975)	ND(0.103)	ND(0.0683)	ND(0.0893)	ND(0.0997)	0.129
Nickel	mg/kg	20.0	21.1	21.9	35.1 [55.7]	9.99	21.1	27.5	14.6	17.2	36.1	36.2
Potassium	mg/kg	1,210	ND(754)	ND(754)	697 [1,090]	ND(708)	ND(975)	ND(1,030)	761	1,260	ND(997)	1,120
Selenium	mg/kg	ND(3.05 J)	1.19 J	ND(0.754 J)	ND(3.02 J*) [ND(3.15 J*)]	ND(0.354 J)	0.901 J	0.593 J	ND(0.341 J)	ND(0.893 J*)	1.98 J	1.60 J
Sodium	mg/kg	766	ND(754)	ND(754)	607 [830]	ND(708)	ND(975)	ND(1,030)	ND(683)	ND(893)	ND(997)	ND(1,080)
Vanadium	mg/kg	17.4	3.02	6.18	16.4 [25.4]	9.85	11.3	15.4	14.3	7.85	13.5	23.1
Zinc	mg/kg	415	105	114	164 [142]	20.8	3,570	1,370	92.3	2,510	675	233

See Notes in Table 15.

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Table 13. Inorganic Constituents Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond	Secondary Settling Pond
Location ID:		SD-12	SD-12	SD-12	SD-13	SD-13	SD-13	SD-14	SD-14	SD-14	SD-15	SD-15
Sample Depth (ft BGS):		0 - 0.5	1.05 - 1.55	2.1 - 2.6	0 - 0.5	1.45 - 1.95	2.9 - 3.4	0 - 0.5	0.9 - 1.4	1.8 - 2.3	0 - 0.5	0.9 - 1.4
Date Collected:	Units	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Inorganics												
Aluminum	mg/kg	10,600 (IDWP)	11,100 (IDWP) [13,900 (IDWP)]	13,000 (IDWP)	14,700 (IDWP)	17,300 (IDWP)	11,100 (IDWP)	16,900 (IDWP)	18,800 (IDWP)	16,200 (IDWP)	16,400 (IDWP)	17,600 (IDWP)
Antimony	mg/kg	0.968 J	ND(1.75 J*) [ND(1.62 J*)]	0.979 J	ND(1.55 J)	1.19 J	0.612 J	1.59 J	ND(1.78 J*)	1.51 J	1.57 J	1.67 J
Arsenic	mg/kg	5.45	9.81 [11.3]	9.60	5.98 J	15.2 J	7.66 J	5.02	6.65	7.43	7.37 J	9.06 J
Barium	mg/kg	93.6	77.1 [77.1]	98.7	94.2	86.9	74.1	103	92.8	115	90.8	80.1
Beryllium	mg/kg	ND(1.30)	ND(1.75) [ND(1.62)]	ND(1.00)	ND(1.55)	ND(1.80)	ND(0.899)	1.32	ND(1.78)	1.14	ND(1.43)	ND(1.44)
Cadmium	mg/kg	1.95	1.28 [1.78 J]	0.943 S	1.83	0.900	0.319	1.68 J	1.30 J	0.810 J	1.44	1.88
Calcium	mg/kg	7,130 J	10,900 J [10,400]	27,600 J	7,560	11,800	27,900	8,180	11,100	28,600	7,100 J	10,100 J
Chromium Total	mg/kg	35.3 (IDWP)	34.5 (IDWP) [41.1 (IDWP)]	29.3	42.3 (IDWP)	48.3 (IDWP)	23.4	39.8 (IDWP)	44.3 (IDWP)	41.3 (IDWP)	42.0 (IDWP)	47.8 (IDWP)
Copper	mg/kg	79.5	52.6 [54.7]	40.7	72.2	60.6	42.9	73.1 J	46.6 J	52.3 J	69.2	51.9
Cyanide (total)	mg/kg	ND(0.650)	ND(0.880) [ND(0.810)]	ND(0.500)	0.820 J	0.920 J	ND(0.450)	ND(0.660 J)	ND(0.890 J)	ND(0.520 J)	ND(0.720)	0.810
Iron	mg/kg	41,900 (IDWP)	40,900 (IDWP) [48,700 (IDWP)]	26,200 (IDWP)	44,800 (IDWP)	51,300 (IDWP)	28,400 (IDWP)	45,300 (IDWP)	51,400 (IDWP)	43,700 (IDWP)	42,900 J (IDWP)	51,100 J (IDWP)
Lead	mg/kg	111	139 [139]	119	110	138	21.1	111	95.2	123	83.3	112
Magnesium	mg/kg	4,190	3,610 [4,250]	13,900	5,350	4,770	11,700	6,240 J	5,980 J	13,000 J	5,640	4,860
Manganese	mg/kg	998 (IDWP)	724 (IDWP) [787 (IDWP)]	645 (IDWP)	921 (IDWP)	806 (IDWP)	495 (IDWP)	983 (IDWP)	718 (IDWP)	821 (IDWP)	781 (IDWP)	800 (IDWP)
Mercury	mg/kg	ND(0.130)	ND(0.175) [ND(0.162)]	ND(0.100)	ND(0.155)	ND(0.180)	0.109	ND(0.132 J)	ND(0.178 J)	0.114 J	ND(0.143 J)	ND(0.144 J)
Nickel	mg/kg	25.9	31.7 [34.8]	30.0	28.7	35.4	26.0	24.4	34.5	36.7	26.9	36.4
Potassium	mg/kg	ND(1,300)	ND(1,750) [ND(1,620)]	1,660	ND(1,550)	ND(1,800)	1,020	ND(1,320)	ND(1,780)	2,230	ND(1,430)	ND(1,440)
Selenium	mg/kg	ND(1.30 J*)	ND(1.75 *) [ND(1.62 J*)]	ND(1.00 *)	ND(1.55 J)	1.66 J	1.23 J	ND(1.32 *)	ND(1.78 *)	ND(1.03 *)	1.40	2.46
Sodium	mg/kg	ND(1,300)	ND(1,750) [ND(1,620)]	ND(1,000)	ND(1,550)	ND(1,800)	ND(899)	ND(1,320)	ND(1,780)	ND(1,030)	ND(1,430)	ND(1,440)
Vanadium	mg/kg	12.8	16.8 [18.0]	29.6	16.9	22.0	21.9	7.77	10.7	26.0	17.5	21.4
Zinc	mg/kg	4,030	761 [1,740]	177	3,270	468	72.5	2,800 J	1,080 J	214 J	1,890	1,350

See Notes in Table 15.

Table 13. Inorganic Constituents Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-15	Secondary Settling Pond SD-16	Secondary Settling Pond SD-16	Secondary Settling Pond SD-16	Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-17	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-18	Secondary Settling Pond SD-19
Location ID:		1.8 - 2.3	0 - 0.5	1.1 - 1.6	2.2 - 2.7	0 - 0.5	0.95 - 1.45	1.9 - 2.4	0 - 0.5	2.25 - 2.75	4.5 - 5	0 - 0.5
Sample Depth (ft BGS):		06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95
Date Collected:	Units											
Inorganics												
Aluminum	mg/kg	8,320 (IDWP)	10,900 (IDWP)	11,400 (IDWP)	11,000 (IDWP)	NA	NA	NA	15,800 J (IDWP)	17,300 (IDWP)	9,550 (IDWP)	19,000 (IDWP)
Antimony	mg/kg	0.969 J	ND(0.999 J)	1.38 J	0.769 J	1.48 J [ND(0.809 J)]	1.30 J	1.47 J	ND(2.10 J)	1.34 J	ND(0.743 J*)	ND(1.54 J*)
Arsenic	mg/kg	5.73 J	9.37 J	6.24 J	4.59 J	8.72 J [6.03 J]	5.46 J	9.85 J	5.46 J	7.47	6.60	5.78
Barium	mg/kg	62.2	67.3	52.5	59.5	61.2 [67.6]	70.1	75.7	74.0	88.5	66.0	96.8
Beryllium	mg/kg	ND(0.924)	0.999	0.776	ND(0.813)	0.939 [0.971]	1.05	1.01	1.57	1.53	0.743	1.70
Cadmium	mg/kg	0.677	0.774	0.436	0.102	0.180 J [0.175 J]	0.294 J	0.473 J	1.20	0.669 J	0.340 J	2.56 SJ
Calcium	mg/kg	55,100 J	7,450	8,200	18,600	NA	NA	NA	10,000	15,400	42,500	10,600
Chromium Total	mg/kg	19.4	28.6	33.1 (IDWP)	22.8	54.4 (IDWP) [53.4 (IDWP)]	27.8	32.1 (IDWP)	30.6 J (IDWP)	44.5 (IDWP)	22.0	40.6 (IDWP)
Copper	mg/kg	25.6	51.0	47.5	41.0	42.2 [27.3]	36.1	56.6	37.4	58.0 J	28.2 J	66.9 J
Cyanide (total)	mg/kg	ND(0.460)	0.650 J	0.700 J	ND(0.410 J)	0.440 J [ND(0.400 J)]	0.660	0.590 J	0.550	0.560 J	ND(0.370 J)	0.780 J
Iron	mg/kg	18,300 J (IDWP)	39,800 (IDWP)	43,300 (IDWP)	39,400 (IDWP)	NA	NA	NA	36,400 (IDWP)	49,200 (IDWP)	29,300 (IDWP)	48,400 (IDWP)
Lead	mg/kg	91.5	72.1	104	15.8	22.7 [25.3]	44.0	72.2	59.1	75.5	25.3	167
Magnesium	mg/kg	20,700	3,490	2,790	7,020	NA	NA	NA	4,940	6,140 J	14,100 J	6,620 J
Manganese	mg/kg	455 (IDWP)	824 (IDWP)	773 (IDWP)	781 (IDWP)	NA	NA	NA	662 (IDWP)	959 (IDWP)	649 (IDWP)	994 (IDWP)
Mercury	mg/kg	ND(0.0924 J)	ND(0.0999)	ND(0.0776)	ND(0.0813)	ND(0.0782) [ND(0.0809)]	ND(0.0874)	0.0790	0.118	0.125 J	ND(0.0743 J)	ND(0.154 J)
Nickel	mg/kg	21.1	24.6	28.3	25.9	31.1 [28.2]	24.9	30.7	19.8	30.0	19.1	25.3
Potassium	mg/kg	1,310	ND(999)	ND(776)	949	NA	NA	NA	ND(1,050)	1,380	1,040	ND(1,540)
Selenium	mg/kg	ND(0.462)	ND(0.999 J)	1.51 J	0.799 J	ND(0.391 J) [ND(0.809 J)]	ND(0.874 *)	1.96	ND(2.10 J)	ND(1.09 *)	ND(0.743 *)	ND(1.54 *)
Sodium	mg/kg	ND(924)	ND(999)	ND(776)	ND(813)	NA	NA	NA	ND(1,050)	ND(1,090)	ND(743)	ND(1,540)
Vanadium	mg/kg	19.2	13.0	15.4	17.9	15.9 [17.6]	15.3	20.5	5.77	11.7	15.9	8.50
Zinc	mg/kg	146	2,020	163	39.9	212 [231]	128	148	1,350	169 J	59.7 J	4,950 J

See Notes in Table 15.

Table 13. Inorganic Constituents Detected in Sediment, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sampling Area:		Secondary Settling Pond SD-19	Secondary Settling Pond SD-19	Secondary Settling Pond SD-20	Secondary Settling Pond SD-20	Secondary Settling Pond SD-20	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Secondary Settling Pond SD-21	Stormwater Pond SD-08	Stormwater Pond SD-08	Stormwater Pond SD-08
Location ID:		SD-19	SD-19	SD-20	SD-20	SD-20	SD-21	SD-21	SD-21	SD-08	SD-08	SD-08
Sample Depth (ft BGS):		1.75 - 2.25	3.5 - 4	0 - 1	0.7 - 1.2	1.4 - 1.9	0 - 0.5	0.65 - 1.15	1.3 - 1.8	0 - 1.5	1.5 - 3	3 - 4.5
Date Collected:	Units	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95	06/21/95
Inorganics												
Aluminum	mg/kg	14,500 (IDWP)	8,310 (IDWP)	12,300 (IDWP)	16,200 (IDWP)	9,270 (IDWP)	13,800 (IDWP)	20,400 (IDWP)	10,300 (IDWP)	12,400 J (IDWP)	10,400 J (IDWP)	7,390 (IDWP)
Antimony	mg/kg	1.35 J	0.778 J	ND(1.35 J*)	1.95 J	1.20 J	ND(1.48 J*)	1.67 J	1.07 J	1.13 J	1.09 J	0.828 J
Arsenic	mg/kg	8.94	3.86	7.05	6.61	4.60	5.18	5.36	3.54	11.8 J	6.08 J	4.33 J
Barium	mg/kg	80.5	45.0	104	93.6	83.2	109	98.6	74.7	84.5	59.2	70.9
Beryllium	mg/kg	1.37	0.806	1.49	1.83	ND(0.931)	1.48	1.77	ND(0.875)	1.20	1.09	0.671
Cadmium	mg/kg	0.872 J	0.400 J	2.60 J	1.62 J	1.09 J	2.63 J	1.86 J	0.568 J	0.651	0.950	0.287
Calcium	mg/kg	18,100	26,000	11,100	12,700	52,400	8,920	12,400	34,800	10,700	11,700	28,200
Chromium Total	mg/kg	50.5 (IDWP)	24.2	49.4 (IDWP)	40.1 (IDWP)	22.3	40.5 (IDWP)	40.0 (IDWP)	22.4	48.8 J (IDWP)	58.0 J (IDWP)	56.6 J (IDWP)
Copper	mg/kg	64.9 J	30.0 J	79.9 J	58.0 J	36.6 J	93.8 J	40.9 J	25.9 J	49.8	44.1	38.3
Cyanide (total)	mg/kg	0.750 J	0.570 J	ND(0.680 J)	ND(0.760 J)	ND(0.470 J)	ND(0.740 J)	1.00 J	ND(0.440 J)	ND(0.430)	ND(0.420)	ND(0.340)
Iron	mg/kg	51,100 (IDWP)	31,100 (IDWP)	47,700 (IDWP)	53,000 (IDWP)	23,600 (IDWP)	49,500 (IDWP)	44,000 (IDWP)	25,000 (IDWP)	47,600 (IDWP)	63,300 (IDWP)	35,600 (IDWP)
Lead	mg/kg	112	42.1	149	111	118	147	85.6	32.9	38.1	34.5	30.8
Magnesium	mg/kg	6,250 J	9,480 J	4,690 J	5,000 J	19,100 J	5,450 J	7,290 J	18,000 J	5,870	5,270	8,130
Manganese	mg/kg	1,060 (IDWP)	612 (IDWP)	1,630 (IDWP,IPASIC)	854 (IDWP)	593 (IDWP)	1,090 (IDWP)	619 (IDWP)	484 (IDWP)	1,090 (IDWP)	1,090 (IDWP)	1,910 (IDWP,IPASIC)
Mercury	mg/kg	ND(0.105 J)	ND(0.0733 J)	ND(0.135 J)	0.199 J	0.137 J	0.258 J	ND(0.161 J)	0.121 J	ND(0.0854)	0.0905	0.0788
Nickel	mg/kg	36.0	18.9	26.6	34.5	25.1	26.9	31.6	24.1	26.1	35.8	23.3
Potassium	mg/kg	1,160	ND(733)	ND(1,350)	ND(1,530)	1,460	ND(1,480)	ND(1,610)	1,340	942	ND(839)	789
Selenium	mg/kg	ND(1.05 *)	ND(0.733 *)	ND(1.35 *)	ND(1.53 *)	ND(0.931 *)	ND(1.48 *)	ND(1.61 *)	ND(0.875 *)	ND(0.854 J)	ND(0.839 J)	ND(0.671 J)
Sodium	mg/kg	ND(1,050)	ND(733)	ND(1,350)	ND(1,530)	ND(931)	ND(1,480)	ND(1,610)	ND(875)	ND(854)	ND(839)	ND(671)
Vanadium	mg/kg	7.79	6.96	6.75	11.6	19.4	7.40	12.8	19.3	4.87	ND(1.68)	8.79
Zinc	mg/kg	213 J	81.2 J	4,310 J	1,030 J	169 J	4,140 J	1,910 J	251 J	731	541	100

See Notes in Table 15.

Table 14. Organic and Inorganic Constituents Detected in NAPL, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sample ID: Date Collected:	Units	LNAPL Assessment Area: MW-147WT 07/30/95	LNAPL Assessment Area: MW-147WT 05/21/00	LNAPL Assessment Area: MW-169WT 08/06/98	LNAPL Assessment Area: MW-170WT 05/23/00	LNAPL Assessment Area: MW-172WT 08/29/96	LNAPL Assessment Area: RW-1 05/07/96	Parking Lot Area/ Buffer Basin: MW-178WT 08/29/96
PCBs								
Aroclor-1242	mg/kg	ND(2,000)	ND(100)	ND(5.1) [ND(5.1)]	ND(10)	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1248	mg/kg	3,800	380	ND(5.1) [ND(5.1)]	ND(10)	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1254	mg/kg	ND(2,000)	ND(100)	ND(5.1) [ND(5.1)]	ND(10)	ND(1.0)	ND(1.0)	3.5
Aroclor-1260	mg/kg	5,800	870	30 [27]	18	ND(1.0)	1.3 J	ND(1.0)
Total PCBs	mg/kg	9,600	1,300	30 [27]	18	ND(1.0)	1.3 J	3.5
Volatile Organics								
1,2,3-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/kg	ND(25 J)	ND(50)	NA	NA	ND(2.5)	ND(2.5 J)	ND(2.5)
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/kg	7.9 JB	7.1 JB	NA	NA	1.8	0.46 J	ND(2.5)
Benzene	mg/kg	ND(6.2)	ND(12)	NA	NA	ND(0.62)	0.57 J	ND(0.62)
Chloromethane	mg/kg	ND(12)	ND(24)	NA	NA	ND(1.2)	ND(1.2 J)	ND(1.2)
cis-1,2-Dichloroethene	mg/kg	NA	ND(6.2)	NA	NA	ND(0.31)	3.7 J	ND(0.31)
Ethylbenzene	mg/kg	4.8 J	1.9 J	NA	NA	ND(0.62)	0.89 J	ND(0.62)
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	ND(6.2)	ND(12)	NA	NA	ND(0.62)	0.98 J	ND(0.62)
Tetrachloroethene	mg/kg	ND(6.2)	ND(12)	NA	NA	0.27	ND(0.62 J)	ND(0.62)
Toluene	mg/kg	ND(6.2)	ND(12)	NA	NA	ND(0.62)	2.3 J	ND(0.62)
Trichloroethene	mg/kg	ND(6.2)	ND(12)	NA	NA	ND(0.62)	3.6 J	ND(0.62)
Vinyl Chloride	mg/kg	ND(12)	ND(24)	NA	NA	ND(1.2)	0.33 J	ND(1.2)
Total Xylenes	mg/kg	140	34	NA	NA	ND(0.62)	2.5 J	ND(0.62)
Semivolatile Organics								
2-Methylnaphthalene	mg/kg	240 J	NA	NA	NA	ND(100)	ND(1,000)	ND(100)
Fluoranthene	mg/kg	74 J	NA	NA	NA	ND(100)	ND(1,000)	ND(100)
Fluorene	mg/kg	63 J	NA	NA	NA	ND(100)	ND(1,000)	ND(100)
Phenanthrene	mg/kg	150 J	NA	NA	NA	ND(100)	ND(1,000)	ND(100)
Pyrene	mg/kg	66 J	NA	NA	NA	ND(100)	ND(1,000)	ND(100)
TPH								
Total Petroleum Hydrocarbons	mg/kg	25,000	NA	NA	NA	NA	NA	NA
Inorganics								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Inorganics-TCLP								
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes in Table 15.

Table 14. Organic and Inorganic Constituents Detected in NAPL, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sample ID: Date Collected:	Units	Quench Pit: QPTW-1 04/13/97	Quench Pit: QPTW-1 03/01/07	Quench Pit: QPTW-2 04/12/97	Quench Pit: QPTW-3 03/16/97	Quench Pit: QPTW-3 04/13/97	Quench Pit: QPTW-3 03/01/07	Quench Pit: QPTW-4 03/16/97
PCBs								
Aroclor-1242	mg/kg	ND(1.0)	ND(1.0)	ND(2.5)	ND(2.5)	NA	ND(1.0)	ND(1.0)
Aroclor-1248	mg/kg	ND(1.0)	ND(1.0)	ND(2.5)	ND(2.5)	NA	ND(1.0)	ND(1.0)
Aroclor-1254	mg/kg	1.6	ND(1.0 J)	16	ND(5.0)	NA	ND(1.0)	ND(1.0)
Aroclor-1260	mg/kg	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	NA	ND(1.0)	ND(1.0)
Total PCBs	mg/kg	1.6	ND(1.0)	16	ND(5.0)	NA	ND(1.0)	ND(1.0)
Volatile Organics								
1,2,3-Trimethylbenzene	mg/kg	NA	ND(10 Y)	NA	NA	NA	ND(10 Y)	NA
2-Butanone	mg/kg	ND(2.5)	ND(80 Y)	ND(2.5)	NA	ND(2.5)	ND(80 Y)	NA
2-Methylnaphthalene	mg/kg	NA	40 Y	NA	NA	NA	ND(30 Y)	NA
Acetone	mg/kg	ND(2.5)	ND(100 Y)	ND(2.5)	NA	ND(2.5)	ND(100 Y)	NA
Benzene	mg/kg	1.8	ND(5.0 Y)	ND(0.62)	NA	ND(0.62)	ND(5.0 Y)	NA
Chloromethane	mg/kg	ND(1.2)	ND(30 Y)	ND(1.2)	NA	ND(1.2)	ND(30 Y)	NA
cis-1,2-Dichloroethene	mg/kg	NA	ND(5.0 Y)	NA	NA	NA	ND(5.0 Y)	NA
Ethylbenzene	mg/kg	2.0	6.0 Y	ND(0.62)	NA	0.79	ND(5.0 Y)	NA
Naphthalene	mg/kg	NA	70 Y	NA	NA	NA	40 Y	NA
n-Butylbenzene	mg/kg	NA	ND(5.0 Y)	NA	NA	NA	ND(5.0 Y)	NA
Styrene	mg/kg	3.0	ND(5.0 Y)	ND(0.62)	NA	ND(0.62)	ND(5.0 Y)	NA
Tetrachloroethene	mg/kg	ND(0.62)	ND(5.0 Y)	ND(0.62)	NA	ND(0.62)	ND(5.0 Y)	NA
Toluene	mg/kg	4.1	ND(10 Y)	ND(0.62)	NA	0.62	ND(10 Y)	NA
Trichloroethene	mg/kg	ND(0.62)	ND(5.0 Y)	ND(0.62)	NA	ND(0.62)	ND(5.0 Y)	NA
Vinyl Chloride	mg/kg	ND(1.2)	ND(5.0 Y)	ND(1.2)	NA	ND(1.2)	ND(5.0 Y)	NA
Total Xylenes	mg/kg	5.5	ND(10)	ND(0.62)	NA	1.9	ND(10)	NA
Semivolatile Organics								
2-Methylnaphthalene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	NA	ND(1,000)	ND(200 XT)	NA
Fluoranthene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	NA	ND(1,000)	ND(200 XT)	NA
Fluorene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	NA	ND(1,000)	ND(200 XT)	NA
Phenanthrene	mg/kg	ND(1,000)	200 XT	ND(1,000)	NA	ND(1,000)	ND(200 XT)	NA
Pyrene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	NA	ND(1,000)	ND(200 XT)	NA
TPH								
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA
Inorganics								
Aluminum	mg/kg	ND(20.0)	NA	28.6	NA	369	NA	NA
Calcium	mg/kg	ND(500)	NA	ND(500)	NA	ND(500)	NA	NA
Chromium Total	mg/kg	ND(1.00)	NA	1.70	NA	2.70	NA	NA
Copper	mg/kg	ND(2.50)	NA	2.60	NA	ND(2.50)	NA	NA
Iron	mg/kg	61.3	NA	63.3	NA	101	NA	NA
Lead	mg/kg	ND(0.300)	NA	2.30	NA	0.370	NA	NA
Manganese	mg/kg	3.80	NA	6.10	NA	25.2	NA	NA
Selenium	mg/kg	ND(0.500)	NA	0.870	NA	ND(0.500)	NA	NA
Vanadium	mg/kg	ND(5.00)	NA	ND(5.00)	NA	5.80	NA	NA
Inorganics-TCLP								
Arsenic	mg/L	NA	0.09	NA	NA	NA	ND(0.03)	NA
Barium	mg/L	NA	0.12	NA	NA	NA	0.05	NA
Cadmium	mg/L	NA	0.009	NA	NA	NA	ND(0.005)	NA
Chromium Total	mg/L	NA	ND(0.05)	NA	NA	NA	ND(0.05)	NA
Lead	mg/L	NA	ND(0.03)	NA	NA	NA	0.07	NA
Selenium	mg/L	NA	0.07	NA	NA	NA	ND(0.05)	NA
Silver	mg/L	NA	0.007	NA	NA	NA	ND(0.005)	NA

See Notes in Table 15.

Table 14. Organic and Inorganic Constituents Detected in NAPL, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sample ID: Date Collected:	Units	Quench Pit: QPTW-4 04/13/97	Quench Pit: QPTW-4 03/01/07	Quench Pit: QPTW-5 04/13/97	Quench Pit: QPTW-5 03/01/07	Quench Pit: QPTW-10 04/03/97	Quench Pit: QPTW-10 04/13/97	Quench Pit: QPTW-10 03/01/07
PCBs								
Aroclor-1242	mg/kg	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.5)	NA	ND(1.0)
Aroclor-1248	mg/kg	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.5)	NA	ND(1.0)
Aroclor-1254	mg/kg	NA	2.7	3.0	3.3	ND(5.0)	NA	6.0
Aroclor-1260	mg/kg	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.5)	NA	ND(1.0)
Total PCBs	mg/kg	NA	2.7	3.0	3.3	ND(5.0)	NA	6.0
Volatile Organics								
1,2,3-Trimethylbenzene	mg/kg	NA	ND(2.0 Y)	NA	ND(2.0 Y)	NA	NA	1.0 X
2-Butanone	mg/kg	ND(2.5)	ND(20 Y)	ND(2.5)	ND(20 Y)	NA	ND(2.5)	ND(8.0 X)
2-Methylnaphthalene	mg/kg	NA	ND(7.0 Y)	NA	11 Y	NA	NA	ND(3.0 X)
Acetone	mg/kg	ND(2.5)	ND(20 Y)	ND(2.5)	ND(20 Y)	NA	ND(2.5)	ND(10 X)
Benzene	mg/kg	ND(0.62)	ND(1.0 Y)	ND(0.62)	ND(1.0 Y)	NA	ND(0.62)	ND(0.50 X)
Chloromethane	mg/kg	ND(1.2)	ND(5.0 Y)	ND(1.2)	ND(5.0 Y)	NA	ND(1.2)	ND(3.0 X)
cis-1,2-Dichloroethene	mg/kg	NA	ND(1.0 Y)	NA	ND(1.0 Y)	NA	NA	ND(0.50 X)
Ethylbenzene	mg/kg	ND(0.62)	ND(1.0 Y)	ND(0.62)	ND(1.0 Y)	NA	ND(0.62)	ND(0.50 X)
Naphthalene	mg/kg	NA	9.0 Y	NA	22 Y	NA	NA	ND(3.0 X)
n-Butylbenzene	mg/kg	NA	ND(1.0 Y)	NA	ND(2.0 XY)	NA	NA	0.80 X
Styrene	mg/kg	ND(0.62)	ND(1.0 Y)	0.63	ND(1.0 Y)	NA	ND(0.62)	ND(0.50 X)
Tetrachloroethene	mg/kg	ND(0.62)	ND(1.0 Y)	ND(0.62)	ND(1.0 Y)	NA	ND(0.62)	ND(0.50 X)
Toluene	mg/kg	ND(0.62)	ND(2.0 Y)	ND(0.62)	ND(2.0 Y)	NA	ND(0.62)	ND(1.0 X)
Trichloroethene	mg/kg	ND(0.62)	ND(1.0 Y)	ND(0.62)	ND(1.0 Y)	NA	ND(0.62)	ND(0.50 X)
Vinyl Chloride	mg/kg	ND(1.2)	ND(1.0 Y)	ND(1.2)	ND(1.0 Y)	NA	ND(1.2)	ND(0.50 X)
Total Xylenes	mg/kg	0.70	ND(2.0)	1.0	ND(2.0)	NA	1.1	ND(1.0)
Semivolatile Organics								
2-Methylnaphthalene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(200 XT)	NA	ND(1,000)	ND(200 XT)
Fluoranthene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(200 XT)	NA	ND(1,000)	ND(200 XT)
Fluorene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(200 XT)	NA	ND(1,000)	ND(200 XT)
Phenanthrene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(200 XT)	NA	ND(1,000)	ND(200 XT)
Pyrene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(200 XT)	NA	ND(1,000)	ND(200 XT)
TPH								
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA	NA
Inorganics								
Aluminum	mg/kg	ND(20.0)	NA	ND(20.0)	NA	NA	ND(20.0)	NA
Calcium	mg/kg	ND(500)	NA	ND(500)	NA	NA	ND(500)	NA
Chromium Total	mg/kg	ND(1.00)	NA	ND(1.00)	NA	NA	ND(1.00)	NA
Copper	mg/kg	ND(2.50)	NA	ND(2.50)	NA	NA	ND(2.50)	NA
Iron	mg/kg	18.0	NA	24.2	NA	NA	24.5	NA
Lead	mg/kg	ND(0.300)	NA	0.360	NA	NA	0.400	NA
Manganese	mg/kg	1.60	NA	1.70	NA	NA	2.40	NA
Selenium	mg/kg	ND(0.500)	NA	ND(0.500)	NA	NA	0.500	NA
Vanadium	mg/kg	ND(5.00)	NA	ND(5.00)	NA	NA	ND(5.00)	NA
Inorganics-TCLP								
Arsenic	mg/L	NA	ND(0.03)	NA	0.04	NA	NA	0.06
Barium	mg/L	NA	ND(0.05)	NA	ND(0.05)	NA	NA	ND(0.05)
Cadmium	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA	NA	ND(0.005)
Chromium Total	mg/L	NA	ND(0.05)	NA	ND(0.05)	NA	NA	ND(0.05)
Lead	mg/L	NA	ND(0.03)	NA	ND(0.03)	NA	NA	0.03
Selenium	mg/L	NA	ND(0.05)	NA	ND(0.05)	NA	NA	ND(0.05)
Silver	mg/L	NA	ND(0.005)	NA	ND(0.005)	NA	NA	ND(0.005)

See Notes in Table 15.

Table 14. Organic and Inorganic Constituents Detected in NAPL, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

Sample ID: Date Collected:	Units	Quench Pit: QPTW-13 09/10/97	Quench Pit: QPTW-13 03/01/07	SMI: SEWER-30 08/29/96	SMI: SEWER-42 08/29/96	Stormwater Pond: SW-22 08/06/98	Stormwater Pond: SW-23 08/06/98
PCBs							
Aroclor-1242	mg/kg	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	13 J	11 J
Aroclor-1248	mg/kg	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(4.8)
Aroclor-1254	mg/kg	16	4.0	ND(1.0)	ND(1.0)	ND(5.0)	ND(4.8)
Aroclor-1260	mg/kg	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	14	13
Total PCBs	mg/kg	16	4.0	ND(1.0)	ND(1.0)	27 J	24 J
Volatile Organics							
1,2,3-Trimethylbenzene	mg/kg	NA	ND(1.0 X)	NA	NA	NA	NA
2-Butanone	mg/kg	ND(12)	ND(8.0 X)	ND(2.5 J)	0.85 J	NA	NA
2-Methylnaphthalene	mg/kg	NA	ND(3.0 X)	NA	NA	NA	NA
Acetone	mg/kg	ND(12)	ND(10 X)	0.43 J	1.2 J	NA	NA
Benzene	mg/kg	ND(3.1)	ND(0.50 X)	2.3 J	2.0 J	NA	NA
Chloromethane	mg/kg	ND(6.0)	ND(3.0 X)	ND(1.2 J)	0.51 J	NA	NA
cis-1,2-Dichloroethene	mg/kg	NA	ND(0.50 X)	ND(0.31 J)	ND(0.31 J)	NA	NA
Ethylbenzene	mg/kg	ND(3.1)	ND(0.50 X)	0.89 J	0.88 J	NA	NA
Naphthalene	mg/kg	NA	ND(3.0 X)	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	ND(0.50 X)	NA	NA	NA	NA
Styrene	mg/kg	ND(3.1)	ND(0.50 X)	2.1 J	1.7 J	NA	NA
Tetrachloroethene	mg/kg	ND(3.1)	ND(0.50 X)	ND(0.62 J)	ND(0.62 J)	NA	NA
Toluene	mg/kg	ND(3.1)	ND(1.0 X)	ND(0.62 J)	ND(0.62 J)	NA	NA
Trichloroethene	mg/kg	ND(3.1)	ND(0.50 X)	ND(0.62 J)	ND(0.62 J)	NA	NA
Vinyl Chloride	mg/kg	ND(6.0)	ND(0.50 X)	ND(1.2 J)	ND(1.2 J)	NA	NA
Total Xylenes	mg/kg	ND(3.1)	ND(1.0)	2.4 J	2.3 J	NA	NA
Semivolatile Organics							
2-Methylnaphthalene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(1,000)	NA	NA
Fluoranthene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(1,000)	NA	NA
Fluorene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(1,000)	NA	NA
Phenanthrene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000)	ND(1,000)	NA	NA
Pyrene	mg/kg	ND(1,000)	ND(200 XT)	ND(1,000 J)	ND(1,000 J)	NA	NA
TPH							
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	NA
Inorganics							
Aluminum	mg/kg	53.4	NA	NA	NA	NA	NA
Calcium	mg/kg	675	NA	NA	NA	NA	NA
Chromium Total	mg/kg	3.50	NA	NA	NA	NA	NA
Copper	mg/kg	3.40	NA	NA	NA	NA	NA
Iron	mg/kg	588	NA	NA	NA	NA	NA
Lead	mg/kg	2.00	NA	NA	NA	NA	NA
Manganese	mg/kg	19.9	NA	NA	NA	NA	NA
Selenium	mg/kg	1.30	NA	NA	NA	NA	NA
Vanadium	mg/kg	5.00	NA	NA	NA	NA	NA
Inorganics-TCLP							
Arsenic	mg/L	NA	ND(0.03)	NA	NA	NA	NA
Barium	mg/L	NA	0.1	NA	NA	NA	NA
Cadmium	mg/L	NA	0.014	NA	NA	NA	NA
Chromium Total	mg/L	NA	0.05	NA	NA	NA	NA
Lead	mg/L	NA	ND(0.03)	NA	NA	NA	NA
Selenium	mg/L	NA	ND(0.05)	NA	NA	NA	NA
Silver	mg/L	NA	ND(0.005)	NA	NA	NA	NA

See Notes in Table 15.

Table 15. Table Notes, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

General Notes:

Data for constituents detected in one or more sample are shown.
 Duplicate results are presented in brackets.
 Groundwater concentrations are presented in milligram per liter (mg/L), except where noted.
 Total PCBs reported as the sum of PCB Aroclors.
 Shaded and bolded cells represent constituent concentrations that exceed at least one of the listed Michigan Part 201 Criteria:

For Groundwater:

FE = Flammability and Explosivity Criteria
 GAI = Groundwater Acute Inhalation Criteria
 GCC = Groundwater Contact Criteria
 IDW = Industrial Drinking Water criteria
 IGVA = Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria

For Soil and Sediment:

GCCP = Groundwater Contact Protection Criteria
 IDC = Industrial Direct Contact Criteria
 IDWP = Industrial Drinking Water Protection Criteria
 IPSIC = Industrial Particulate Soil Inhalation Criteria
 ISVIA = Industrial Soil Volatilization to Indoor Air Criteria
 IVSICI = Industrial Infinite Source Volatile Soil Inhalation Criteria

For Surface Water:

GCC = Groundwater Contact Criteria

Data Qualifiers:

J = Estimated value.
 R = Rejected.
 ND = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 NA = Not analyzed.
 # = Represent combine of m-cresol and p-cresol.
 * = Duplicate analysis not within control limits.
 B = Method blank contamination
 D = Compounds at secondary dilution factor.
 E = Estimated because of the presence of interference.
 N = Sample recovery not within control limits.
 S = Value determined by the Method of Standard Additions.

MDEQ Criteria Qualifiers:

ID = *Inadequate data* to develop criterion.
 NA = Criterion or value is *not available* or, as is the case for Csat, *not applicable*.
 NLV = Hazardous substance is *not likely to volatilize* under most conditions.

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 pa 399, mcl 325.1005.
- (B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated cleanup criterion.
- (C) Value presented is a screening level based on the chemical-specific generic soil saturation concentration since the calculated risk-based criterion is greater than Csat. Concentrations greater than Csat are acceptable cleanup criteria for this pathway where a site-specific demonstration indicates that free-phase material containing a hazardous substance is not present.
- (D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value provided in the following table:

Hazardous Substance	Chemical Abstract Service Number	Residential Health-Based Drinking Water Value (ug/L)	Industrial-Commercial Health-Based Drinking Water Value (ug/L)
Aluminum	7429905	300	4,100
tertiary Amyl methyl ether	994058	910	2,600
Copper	7440508	1,400	4,000
Diethyl ether	60297	3,700	10,000
Ethylbenzene	100414	700	700
Iron	7439896	2,000	5,600
Manganese	7439965	860	2,500
Methyl-tert-butyl ether (MTBE)	1634044	240	690
Toluene	108883	1,000	1,000
1,2,4-Trimethylbenzene	95636	1,000	2,900
1,3,5-Trimethylbenzene	108678	1,000	2,900
Xylenes	1330207	10,000	10,000

Table 15. Table Notes, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

MDEQ Criteria Qualifiers (continued):

- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO₃/L, use 400 mg CaCO₃/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Hazardous Substance	FCV Formula (ug/L)	FCV Conversion	WV (ug/L)	HNDV (ug/L)
Acetate	EXP(0.2732*(pH) + 7.0362)	NA	NA	1.30E+06
Barium ^x	EXP(1.0629*(LnH)+1.1869)	NA	NA	1.60E+05
Beryllium	EXP(2.5279*(LnH)-10.7689)	NA	NA	1,200
Cadmium ^x	(EXP(0.7852*(LnH)-2.715))*CF	1.101672-((LnH)*(0.041838))	NA	130
Chromium (III) ^x	(EXP(0.819*(LnH)+0.6848))*CF	0.86	NA	9,400
Copper	(EXP(0.8545*(LnH)-1.702)) *CF	0.96	NA	64,000
Lead ^x	(EXP(1.273*(LnH)-3.296))*CF	1.46203-((LnH)*(0.14571))	NA	190
Manganese	EXP(0.8784*(LnH)+3.5199)	NA	NA	59,000
Nickel	(EXP(0.846*(LnH)+0.0584))*CF	0.997	NA	2.10E+05
Pentachlorophenol ^x	EXP(1.005*(pH)-5.134)	NA	NA	2.8
Zinc	(EXP(0.8473*(LnH)+0.884))*CF	0.986	NA	22,000

where,

^x =The GSI criterion developed here may not be protective for surface water that is used as a drinking water source.

- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001),
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable combinations of site-specific soil and drinking water concentrations are presented in the following table:

Acceptable Combinations of Lead in Drinking Water and Soil

Drinking Water Concentration (ug/L)	Soil Concentration (mg/kg)
5	386-395
6	376-385
7	376-385
8	366-375
9	356-365
10	346-355
11	336-345
12	336-345
13	326-335
14	316-325
15	306-315

Table 15. Table Notes, ENCORE, Saginaw Malleable Iron Plant, Saginaw, Michigan

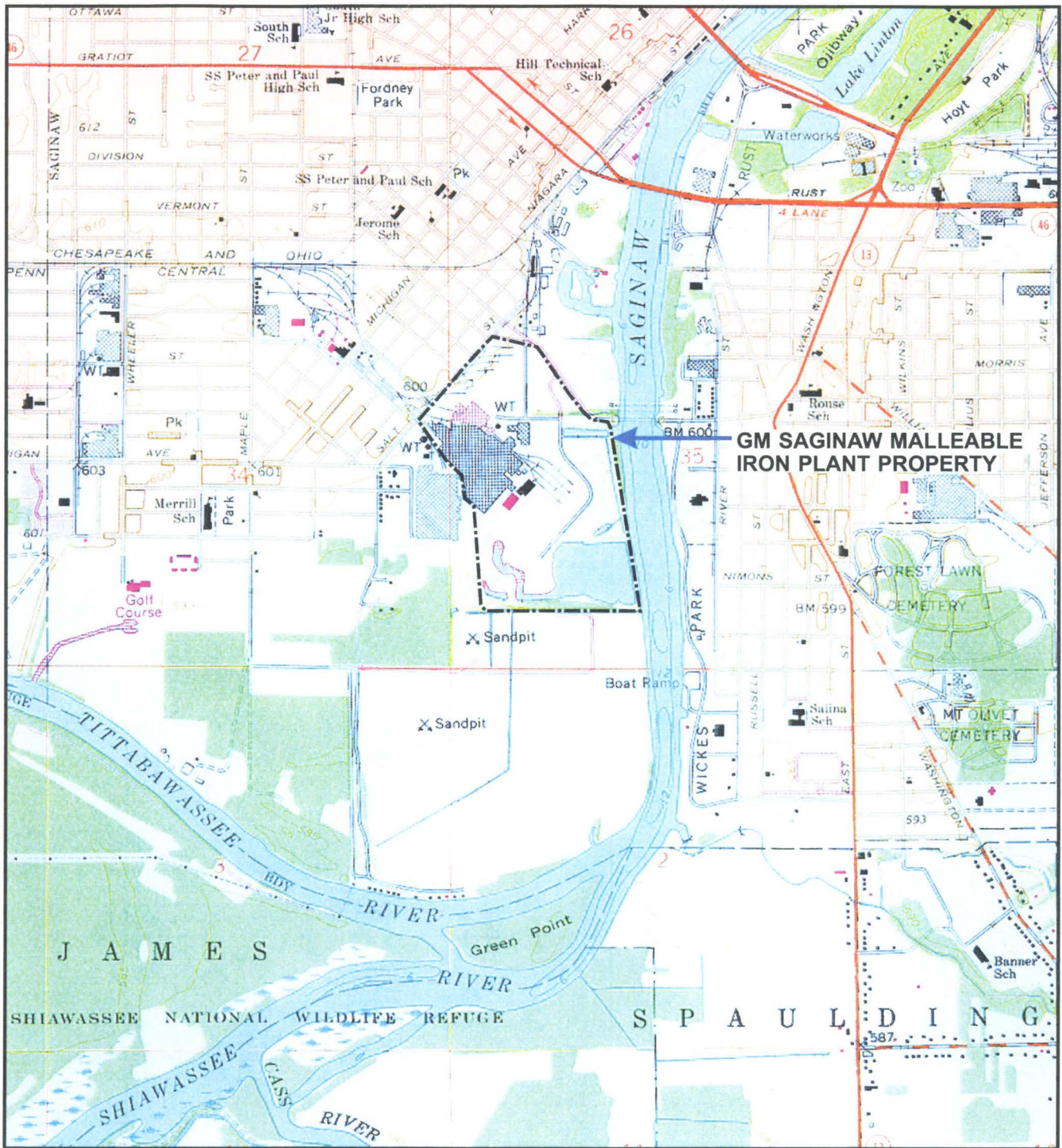
MDEQ Criteria Qualifiers (continued):

- (M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (P) Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Industrial-commercial direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cyanide gas.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001)
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. see formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Hazardous Substance	Chemical Abstract Service Number	Surface Water Human Drinking Water Values (HDV) (ug/L)	Soil GSI Protection Criteria (HDV) (ug/L)
Acrylonitrile	107131	2.0 (M); 0.87	100 (M); 17
Alachlor	15972608	3.5	91
Antimony	7440360	2	1,400
Arsenic	7440382	50	23,000
Atrazine	1912249	4.3	86
Barium	7440393	1,900*	*
Benzene	71432	12	240
bis(2-Chloroethyl)ether	111444	1 (M); 0.79	100 (M); 20
Bromate	15541454	10 (M); 0.5	200 (M); 10
Butyl benzyl phthalate	85687	6.9	13,000
Cadmium	7440439	2.5*	*
Carbon tetrachloride	56235	5.6	110
Chloride	16887006	50,000	1.00E+06
Chloroform	67663	77	1,500
Chromium (III)	16065831	120*	*
Cyanazine	21725462	2 (M); 0.93	200 (M); 40
3,3'-Dichlorobenzidine	91941	0.3 (M); 0.14	2,000 (M); 7.7
1,2-Dichloroethane	107062	6	120
1,1-Dichloroethylene	75354	24	480
1,2-Dichloropropane	78875	9.1	180
N,N-Dimethylacetamide	127195	700	14,000
1,4-Dioxane	123911	34	680
Ethylene dibromide	106934	0.05 (M); 0.006	20 (M); 1.0
Ethylene glycol	107211	56,000	1.10E+06
Heptachlor	76448	0.01 (M); 0.0017	NLL
beta-Hexachlorocyclohexane	319857	0.024	20 (M)
Hexachloroethane	67721	5.3	310
Isophorone	78591	310	6,200
Isopropyl alcohol	67630	28,000	5.60E+05
Lead	7439921	14*	*
Manganese	7439965	3600	72,000
Methyl-tert-butyl ether (MTBE)	1634044	100	2,000
Methylene chloride	75092	47	940
Mirex	2385855	0.02 (M); 1.6E-5	NLL
Molybdenum	7439987	120	2,400
Nitrobenzene	98953	4.7	330 (M); 94
Pentachlorophenol	87865	1.8*	*
1,2,4,5-Tetrachlorobenzene	95943	2.8	3,300
1,1,1,2-Tetrachloroethane	630206	19	380
1,1,2,2-Tetrachloroethane	79345	3.2	64
Tetrachloroethylene	127184	11	220
Tetrahydrofuran	109999	350	7,000
Thallium	7440280	2.0 (M); 1.2	2,300
1,1,2-Trichloroethane	79005	12	240
Trichloroethylene	79016	29	580

{AA} = Comparison to these criteria may take into account an evaluation of whether the hazardous substances are adsorbed to particulates rather than dissolved in water and whether filtered groundwater samples were used to evaluate groundwater.

Figures



NOTES:

1. Base map source: USGS 7.5 Min. Topo. Quad., Saginaw, Mich. (1967, Photorevised 1973).
2. Locations of Green Point Landfill and Drum Remediation Area are approximate.
3. All property boundary lines are approximate.



APPROX. SCALE 1" = 2,000 Feet



Area Enlargement

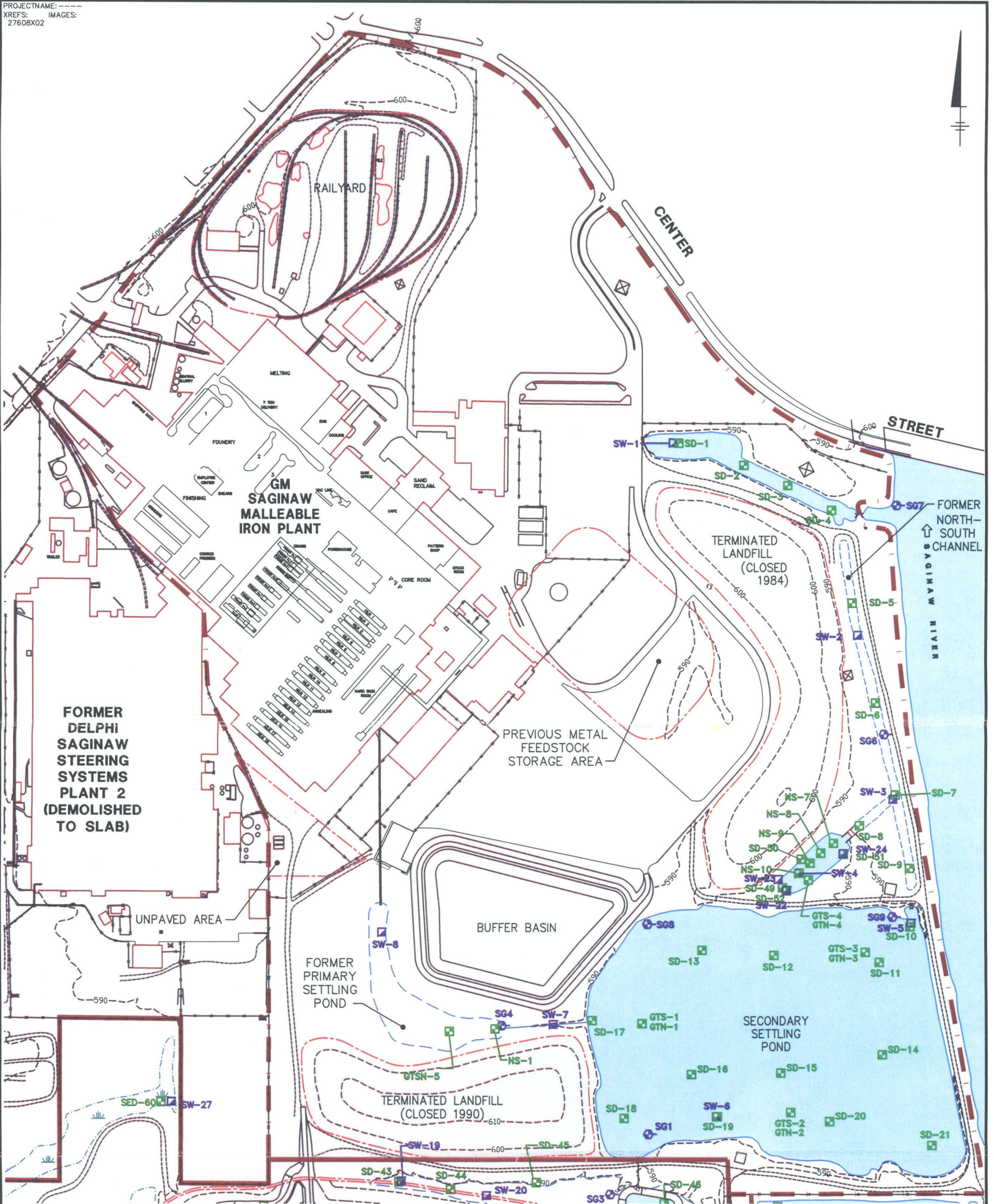
GM SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SITE LOCATION MAP



FIGURE
1

PROJECTNAME: ----
 XREFS: IMAGES:
 27608X02

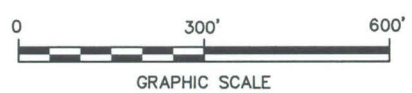


LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- SEDIMENT SAMPLE
- STAFF GAUGE
- SURFACE WATER SAMPLE

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96. GEOTECHNICAL SEDIMENT LOCATIONS GTS-1 THROUGH GTS-4, GTN-1 THROUGH GTN-4, AND GTSN-5 WERE NOT SURVEYED AND ARE APPROXIMATE.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.

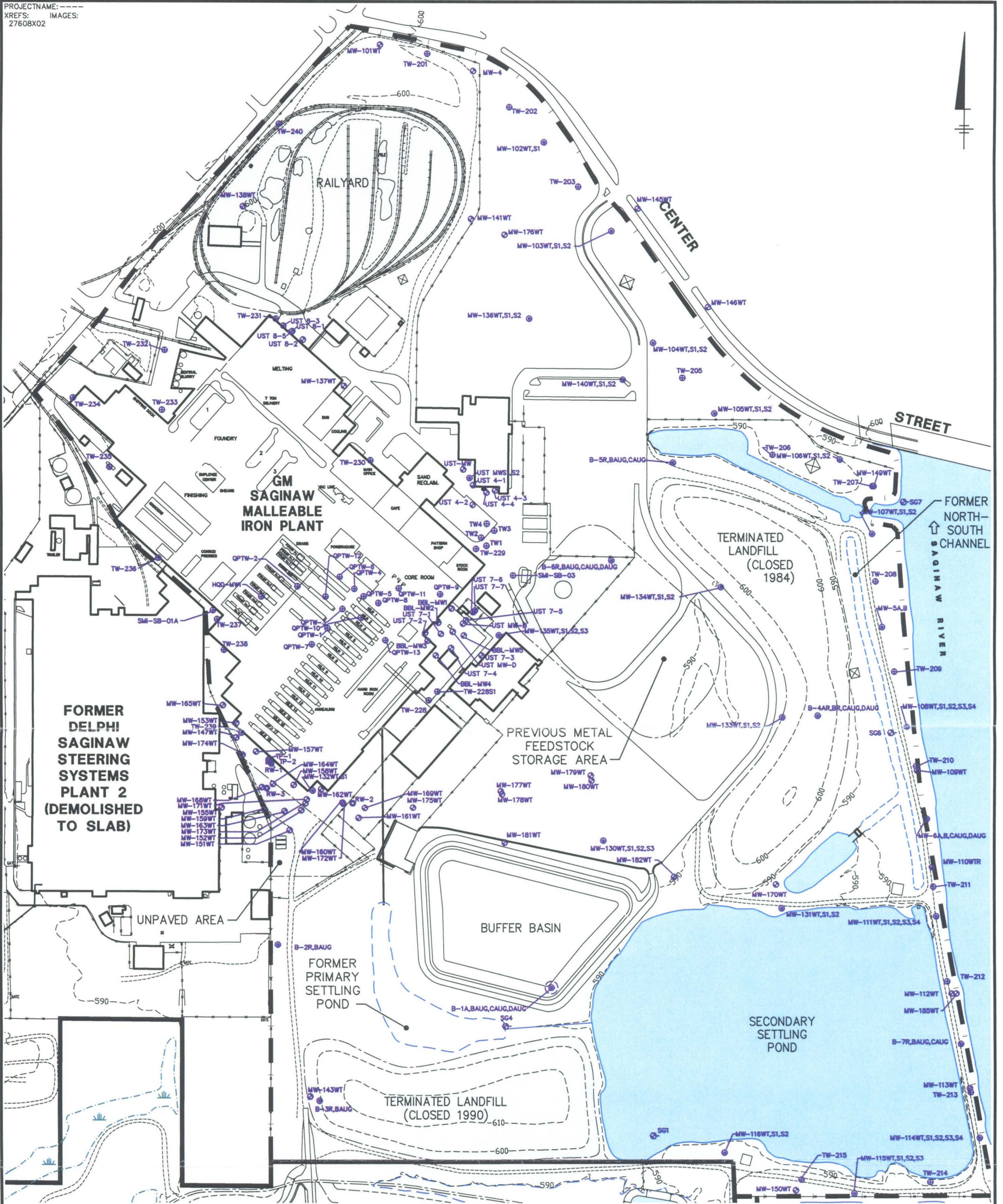


**GENERAL MOTORS
 SAGINAW MALLEABLE IRON PLANT PROPERTY
 SAGINAW, MICHIGAN
 DUE CARE PLAN**

**SURFACE WATER AND SEDIMENT
 SAMPLING LOCATION MAP**

**FIGURE
 2**

PROJECTNAME: ---
 XREFS: IMAGES:
 27608X02

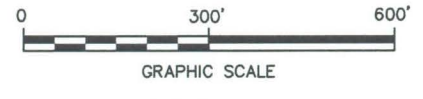


LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MONITORING WELL
- MONITORING WELL CLUSTER
- TEMPORARY MONITORING WELL
- STAFF GAUGE
- PIEZOMETER
- RECOVERY WELL
- ABANDONED MONITORING WELL

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND GM DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. MOST SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96. TEMPORARY WELLS SMI-SB-01A AND SMI-SB-03 WERE NOT SURVEYED; LOCATIONS ARE APPROXIMATE.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.



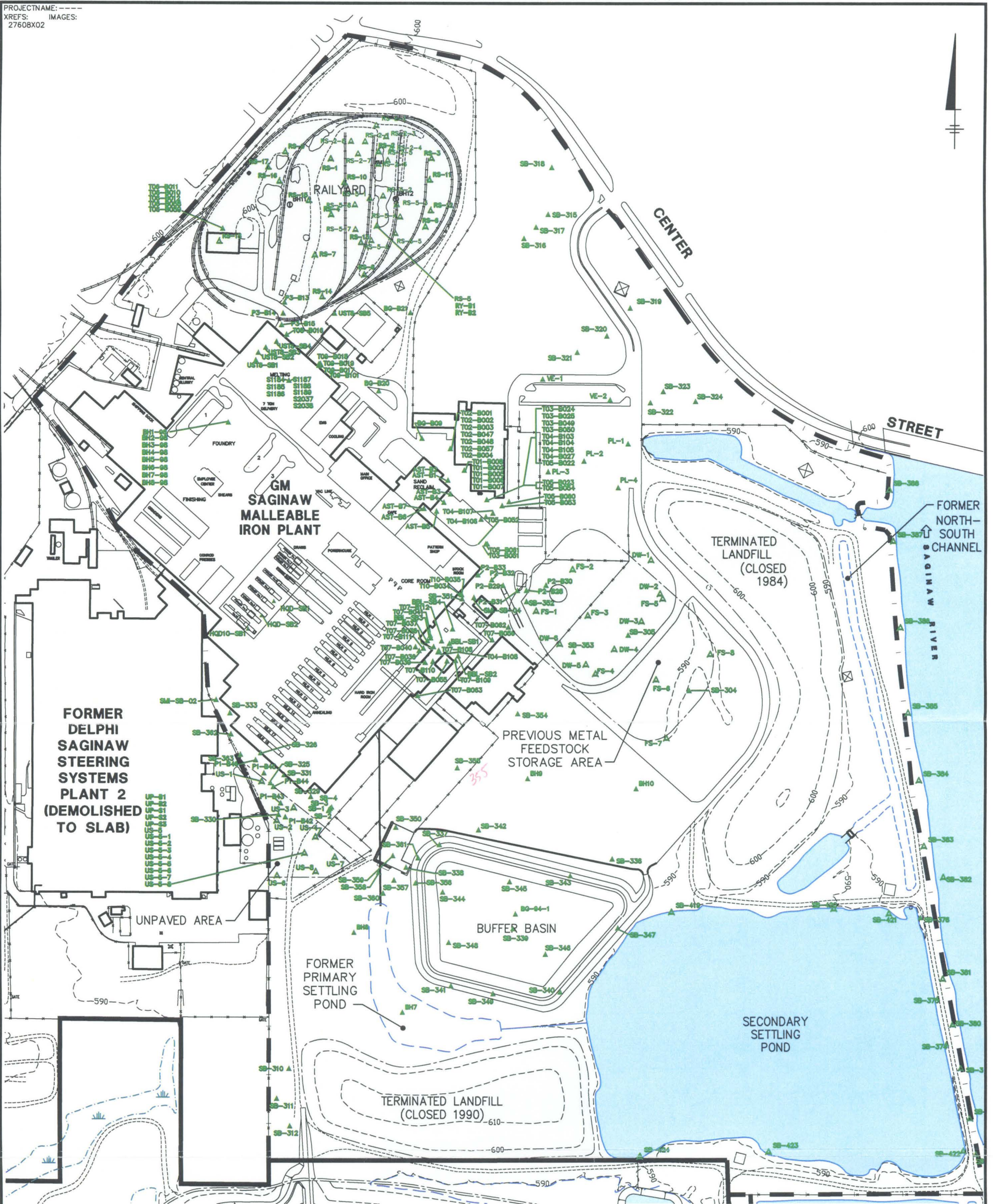
**GENERAL MOTORS
 SAGINAW MALLEABLE IRON PLANT PROPERTY
 SAGINAW, MICHIGAN
 DUE CARE PLAN**

**MONITORING WELL AND
 TEMPORARY WELL LOCATION MAP**

ARCADIS BBL
infrastructure, environment, facilities

FIGURE
3

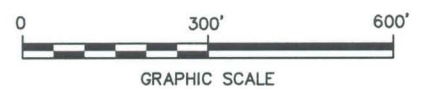
PROJECTNAME:-----
 XREFS: IMAGES:
 27608X02



NOTES:

LEGEND	
	GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
	REALM, INC. PROPERTY LINE (APPROX.)
	UNPAVED ROAD
	GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
	FENCE LINE
	SWAMPY AREA
	SOIL BORING
	SURFACE SOIL SAMPLE
	TEST PIT
	POST-EXCAVATION CONFIRMATION SOIL SAMPLE

- THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND GM DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
- MOST SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96. SOIL BORINGS VE-1, VE-2, PL-1 THROUGH PL-4, SM1-SB-02, AND SM1-SB-04 WERE NOT SURVEYED; LOCATIONS ARE APPROXIMATE.
- VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
- BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY 1998.
- PROPERTY BOUNDARY FOR REALM, INC, DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
- THE LOCATIONS OF BH9-BH12 WERE DIGITIZED FROM FIELD MAP PREPARED BY CRA AND WERE NOT SURVEYED.



GENERAL MOTORS
 SAGINAW MALLEABLE IRON PLANT PROPERTY
 SAGINAW, MICHIGAN
DUE CARE PLAN

SOIL BORING AND SURFACE SOIL SAMPLING LOCATION MAP

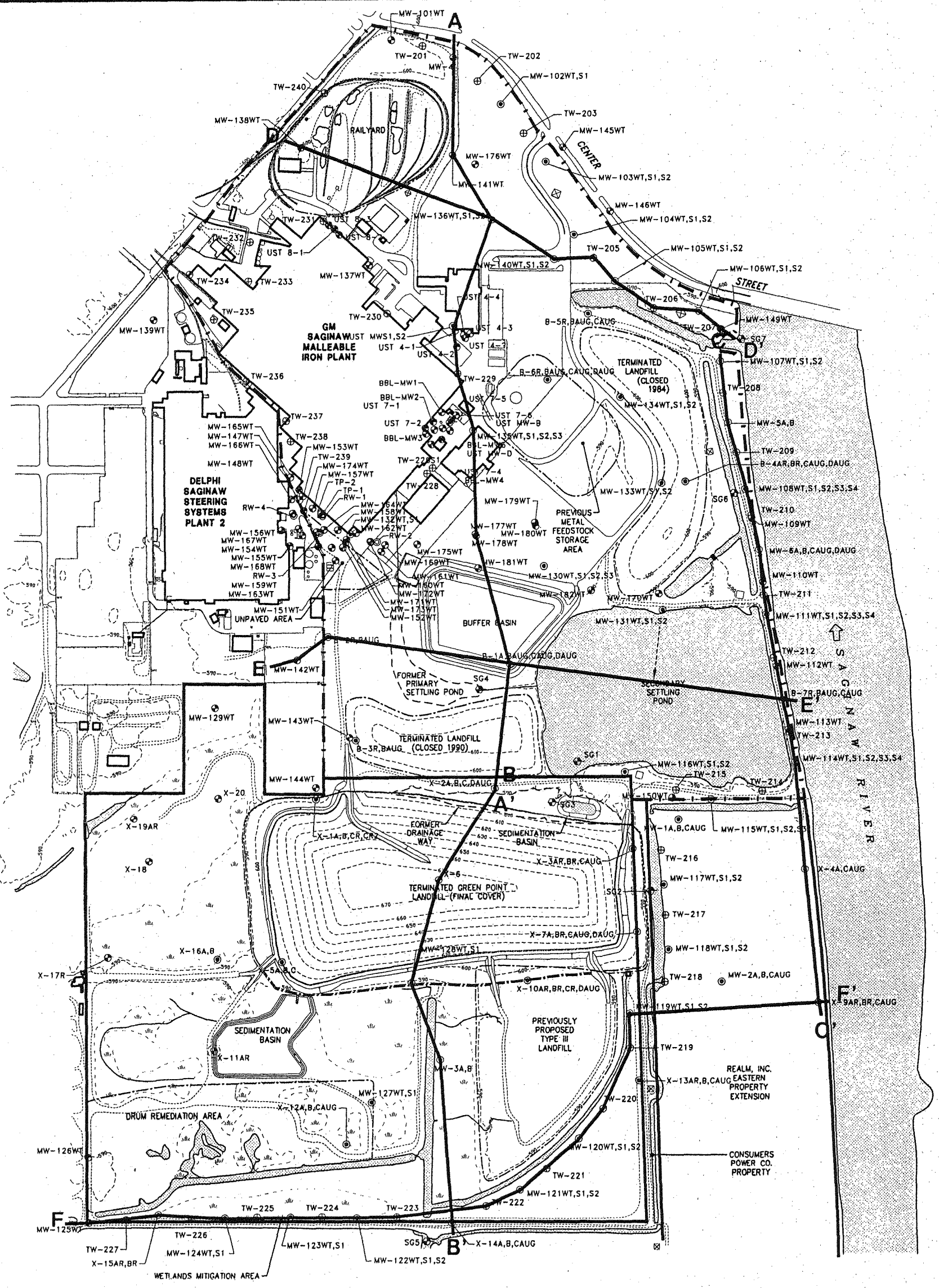
ARCADIS BBL
 Infrastructure, environment, facilities

FIGURE
4

Appendices

Appendix A

Cross-Sections, and Water Table
and Potentiometric Surface
Groundwater Contour Maps

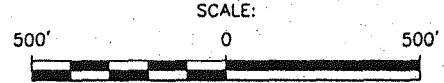


LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- - - GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 ● MONITORING WELL
- MW-102WT,S1 ● MONITORING WELL CLUSTER
- TW-203 ● TEMPORARY MONITORING WELL
- SG5 ● STAFF GAUGE
- TP-2 □ PIEZOMETER
- RW-4 ● RECOVERY WELL
- X-11AR ● ABANDONED MONITORING WELL
- A—A' CROSS SECTION LOCATION

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96; REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.



SAGINAW MALLEABLE IRON PLANT PROPERTY,
GREEN POINT LANDFILL,
AND DRUM REMEDIATION AREA
SAGINAW, MICHIGAN

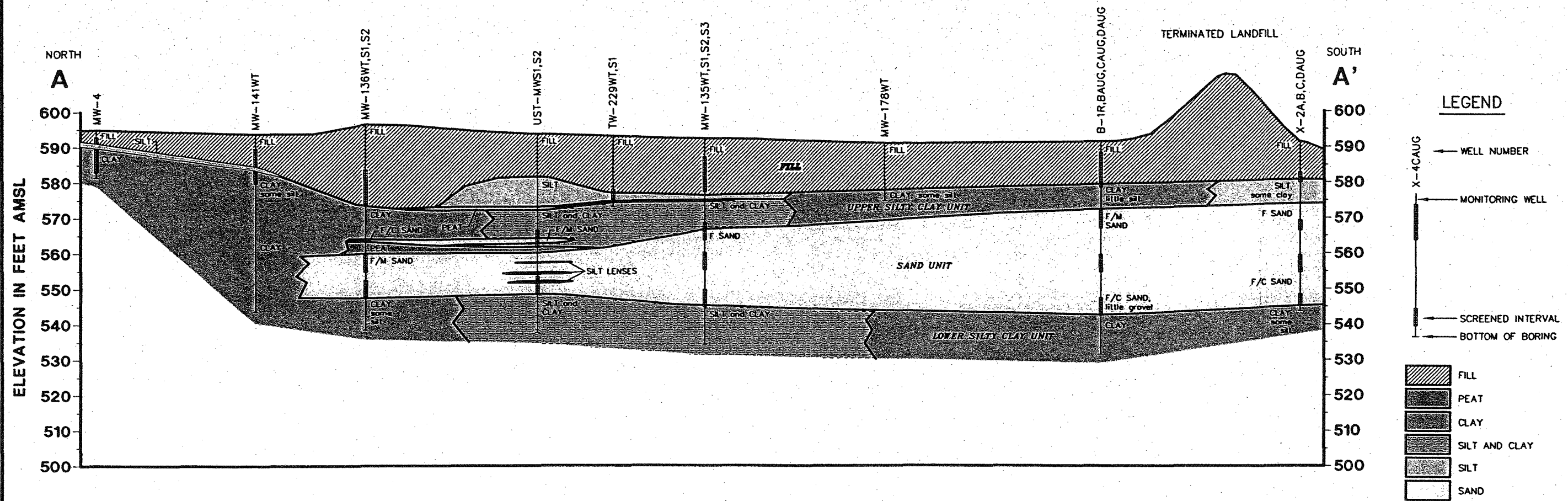
REMEDIAL INVESTIGATION

CROSS SECTION LOCATION MAP

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

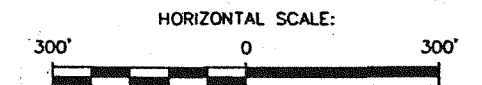
FIGURE 3-1

X: 27608X01.DWG
L: ON=, OFF=REF
P: HP-BLGM.PCP
11/9/00 SYR-54-GMS
27608090/SMI-R1/27608001.DWG



NOTES:

1. GEOLOGIC INTERPRETATION DEVELOPED BY BBL, INC. USING DATA FROM SITEWIDE RI/FS.
2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (AMSL) RELATIVE TO NGVD OF 1929.
3. F, M, C = FINE, MEDIUM, COARSE.



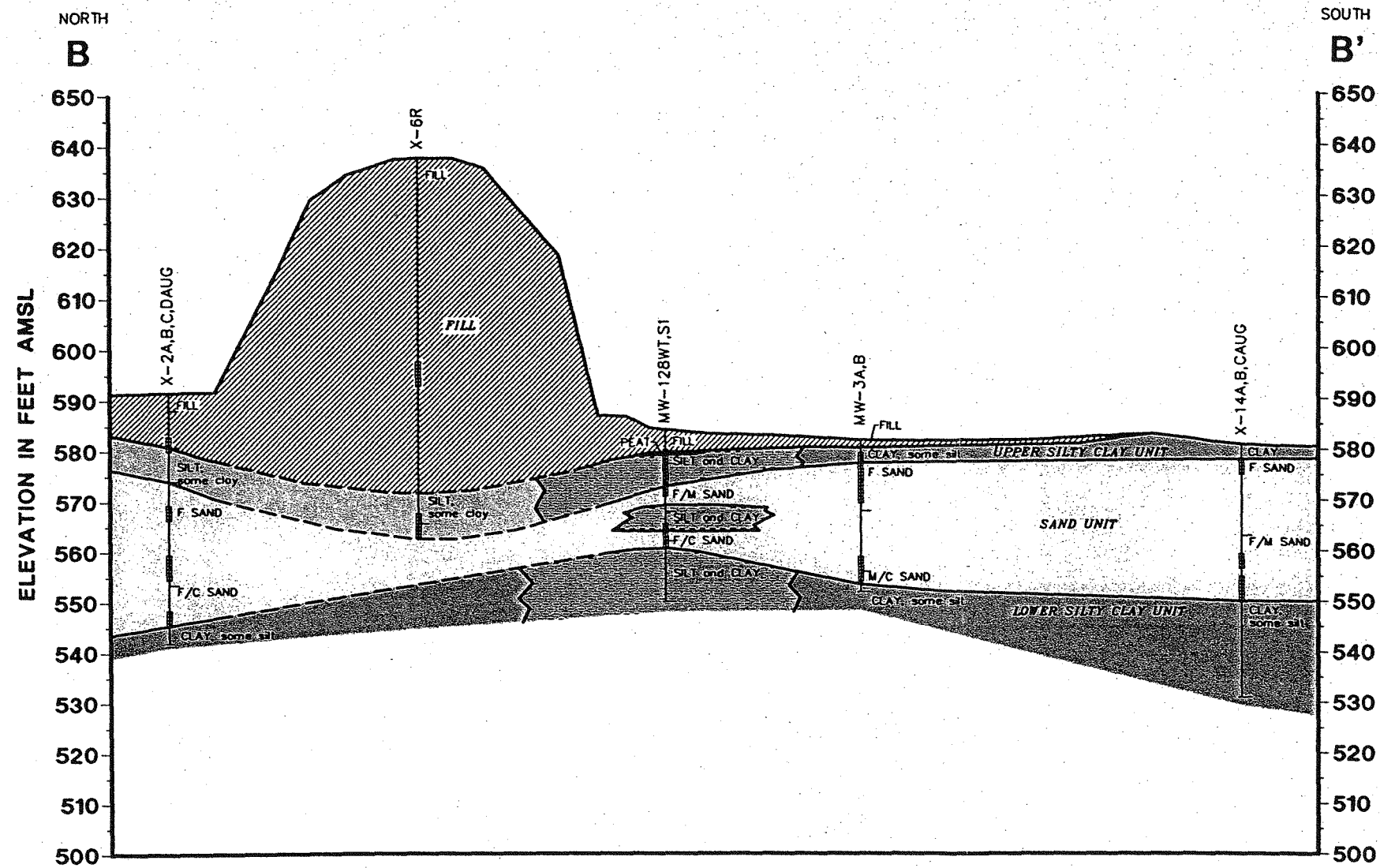
SAGINAW MALLEABLE IRON PLANT PROPERTY,
 GREEN POINT LANDFILL,
 AND DRUM REMEDIATION AREA
 SAGINAW, MICHIGAN

REMEDIAL INVESTIGATION

GEOLOGIC CROSS SECTION A-A'

BBL BLASLAND, BOUCK & LEE, INC.
 engineers & scientists

FIGURE 3-2



NOTES:

1. GEOLOGIC INTERPRETATION DEVELOPED BY BBL, INC. USING DATA FROM SITEWIDE RI/FS.
2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (AMSL) RELATIVE TO NGVD OF 1929.
3. F, M, C = FINE, MEDIUM, COARSE.
4. TEMPORARY WELLS NOT SHOWN.

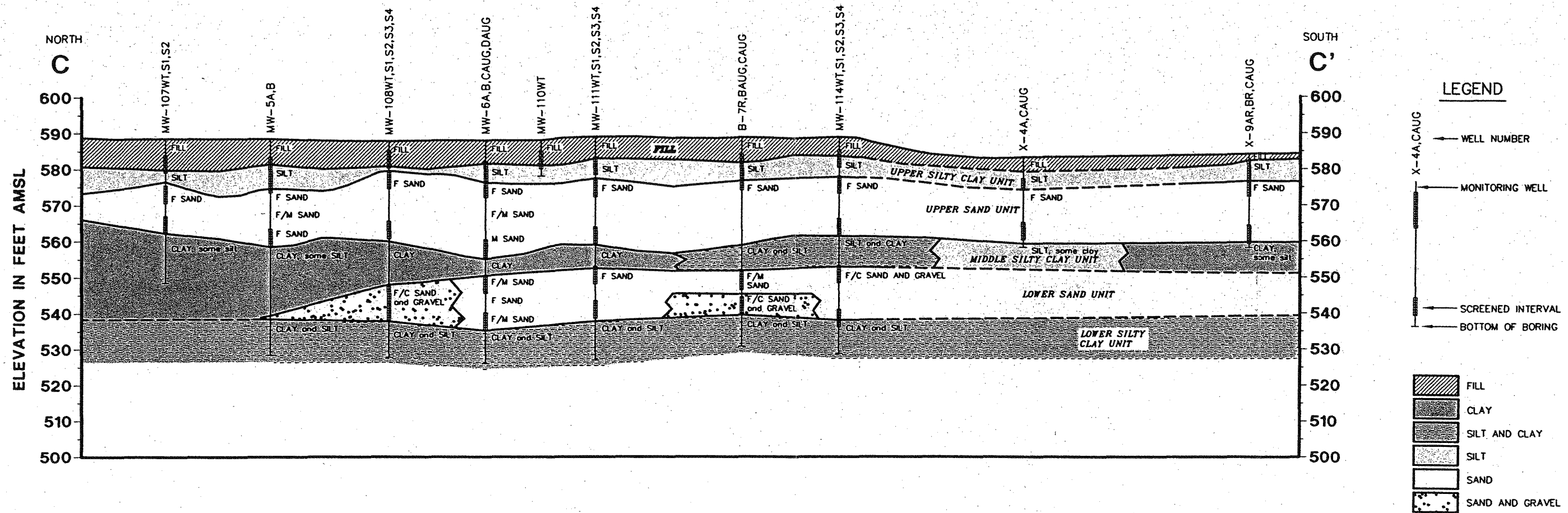
SAGINAW MALLEABLE IRON PLANT PROPERTY,
GREEN POINT LANDFILL,
AND DRUM REMEDIATION AREA
SAGINAW, MICHIGAN

REMEDIAL INVESTIGATION

GEOLOGIC CROSS SECTION B-B'

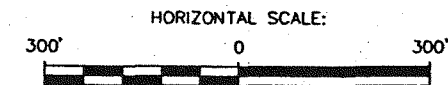
BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
3-3



NOTES:

1. GEOLOGIC INTERPRETATION DEVELOPED BY BBL, INC. USING DATA FROM SITEWIDE RI/FS.
2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (AMSL) RELATIVE TO NGVD OF 1929.
3. F, M, C = FINE, MEDIUM, COARSE.
4. TEMPORARY WELLS NOT SHOWN.

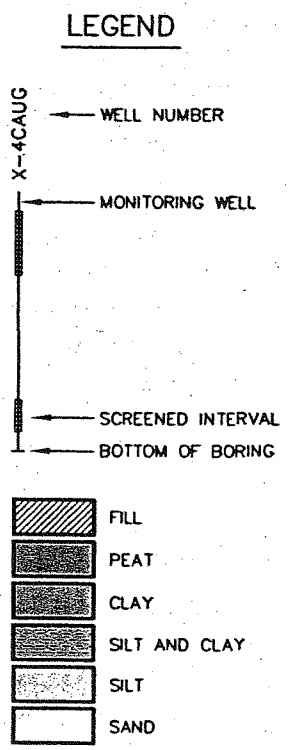
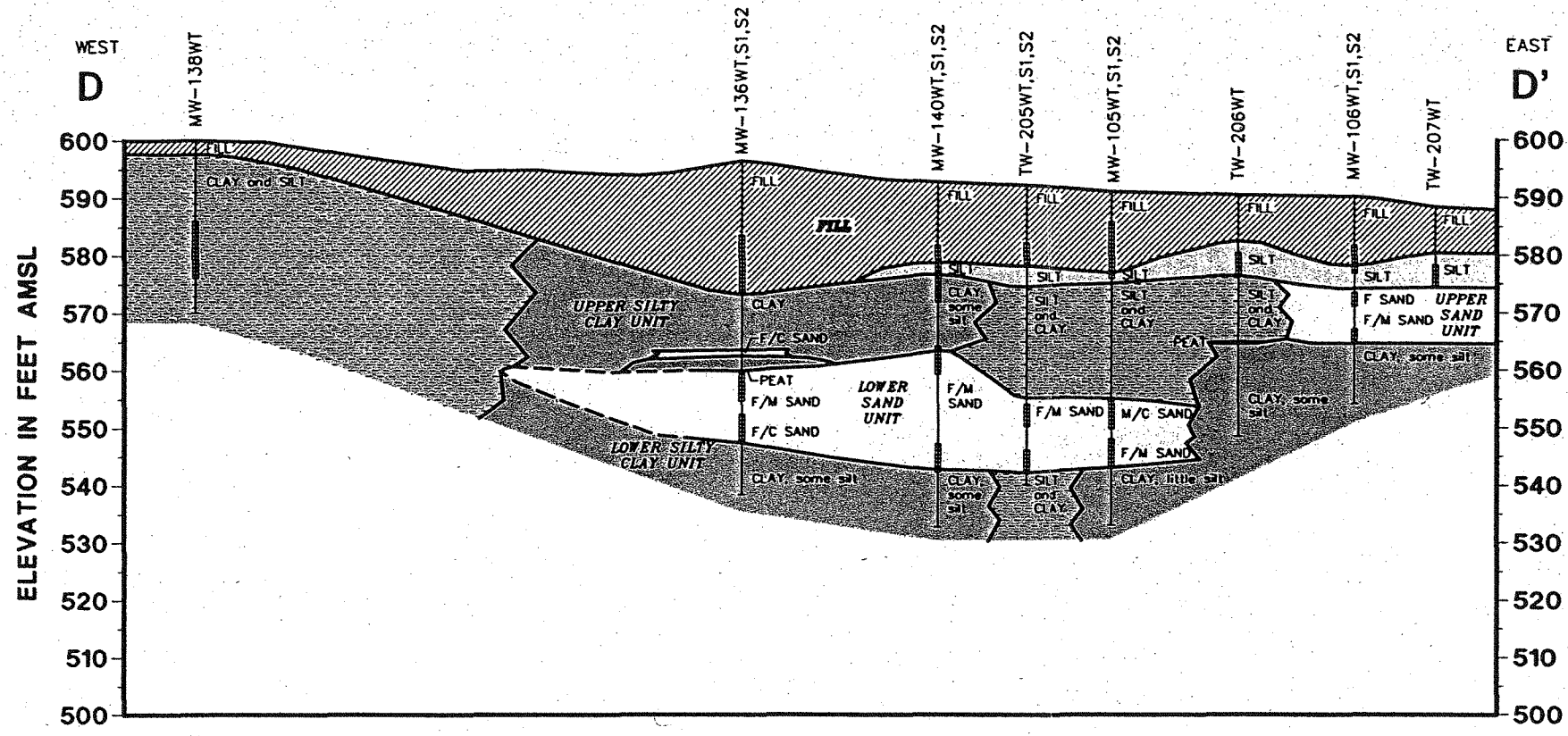


SAGINAW MALLEABLE IRON PLANT PROPERTY,
 GREEN POINT LANDFILL,
 AND DRUM REMEDIATION AREA
 SAGINAW, MICHIGAN

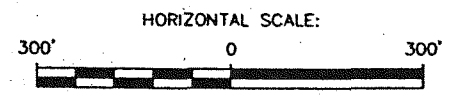
REMEDIAL INVESTIGATION

GEOLOGIC CROSS SECTION C-C'

L: DN=*, OFF=REF
 P: STD BL.PCP
 11/10/00 SYR-54-GWS RCA
 27608090/SMI-RI/27608V03.DWG



- NOTES:**
1. GEOLOGIC INTERPRETATION DEVELOPED BY BBL, INC. USING DATA FROM SITEWIDE RI/FS.
 2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (AMSL) RELATIVE TO NGVD OF 1929.
 3. F, M, C = FINE, MEDIUM, COARSE.



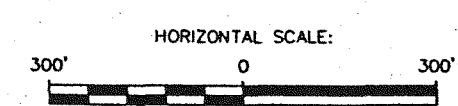
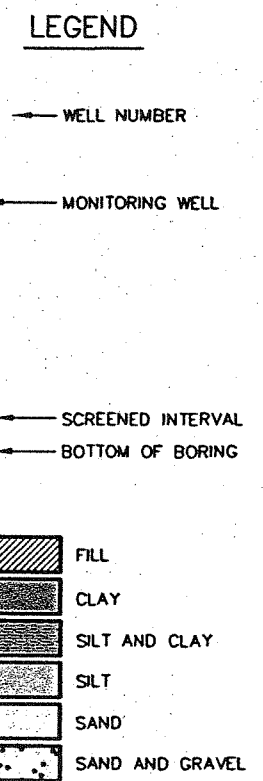
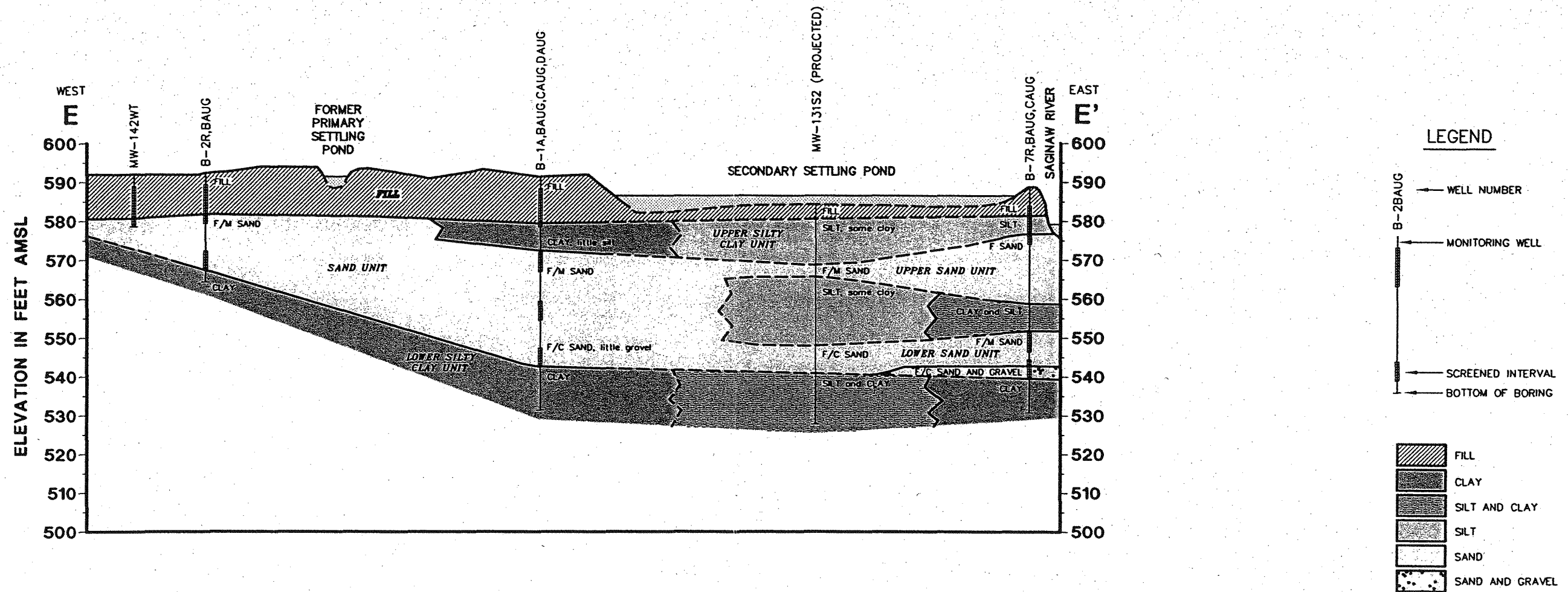
SAGINAW MALLEABLE IRON PLANT PROPERTY,
 GREEN POINT LANDFILL,
 AND DRUM REMEDIATION AREA
 SAGINAW, MICHIGAN

REMEDIAL INVESTIGATION

GEOLOGIC CROSS SECTION D-D'

BBL BLASLAND, BOUCK & LEE, INC.
 engineers & scientists

FIGURE 3-5



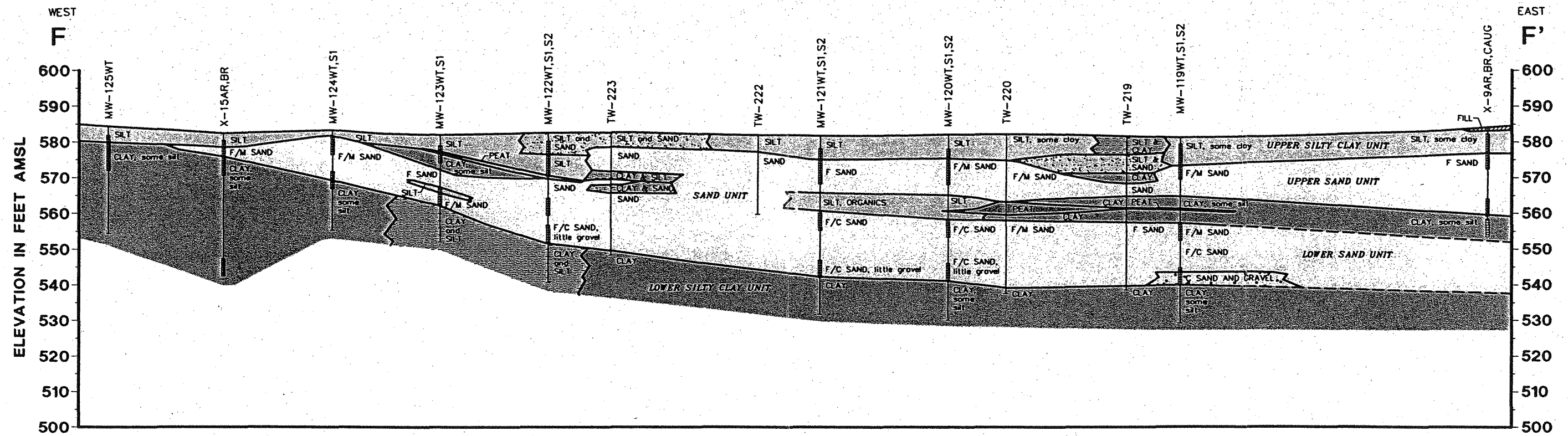
- NOTES:**
1. GEOLOGIC INTERPRETATION DEVELOPED BY BBL, INC. USING DATA FROM SITEWIDE RI/FS.
 2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (AMSL) RELATIVE TO NGVD OF 1929.
 3. F, M, C = FINE, MEDIUM, COARSE.

SAGINAW MALLEABLE IRON PLANT PROPERTY,
 GREEN POINT LANDFILL,
 AND DRUM REMEDIATION AREA
 SAGINAW, MICHIGAN

REMEDIAL INVESTIGATION

GEOLOGIC CROSS SECTION E-E'

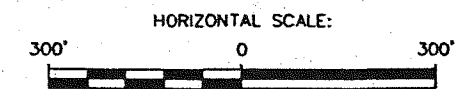
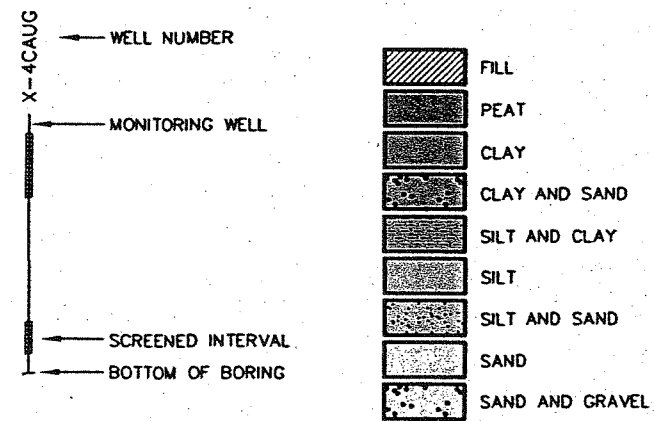
L: ON=*, OFF=REF
 P: STD-PCP/BL-PCP
 11/10/00 SYR-54-GMS RCA
 27608090/SMI-R/27608V05.DWG



NOTES:

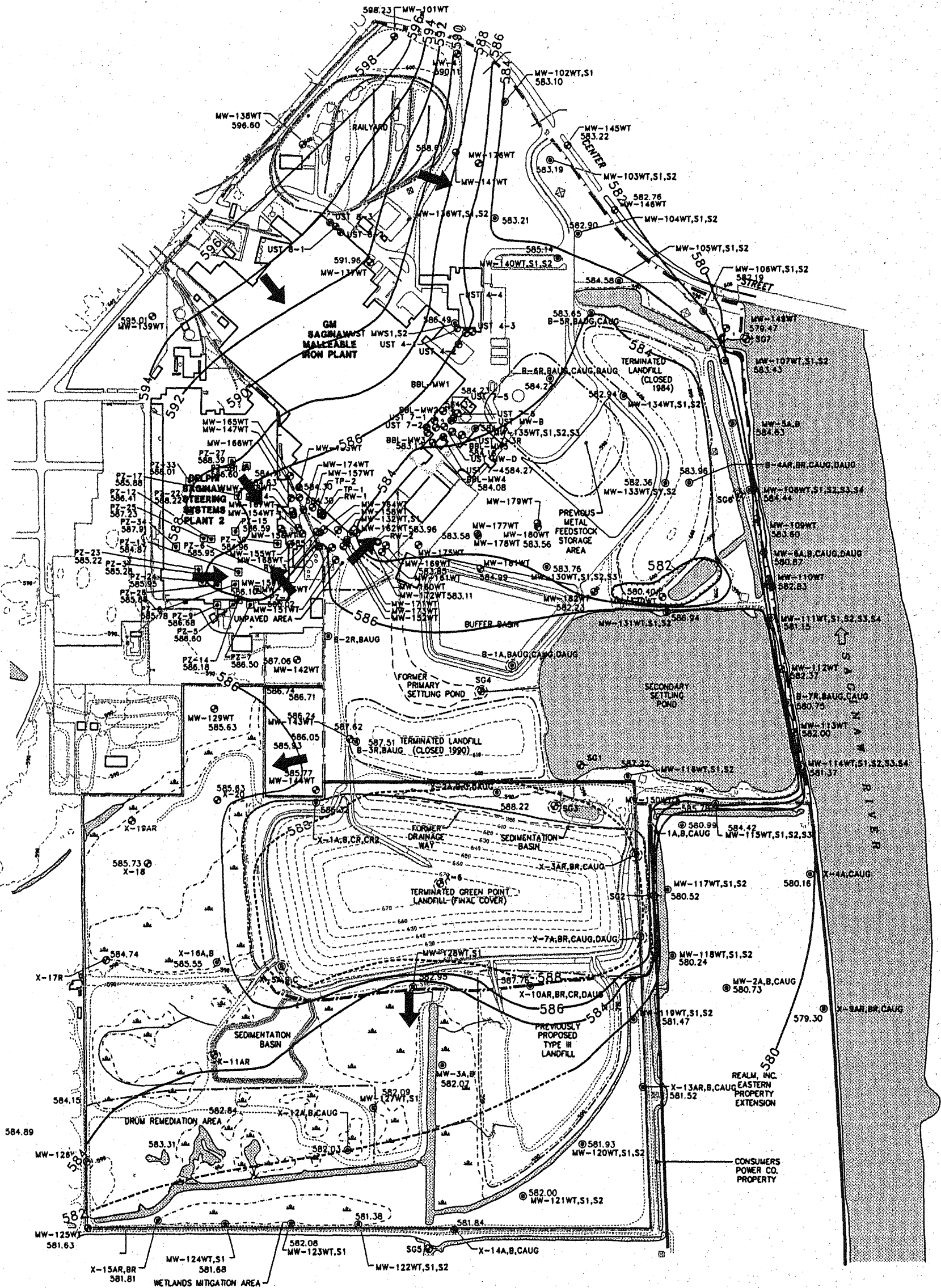
1. GEOLOGIC INTERPRETATION DEVELOPED BY BBL, INC. USING DATA FROM SITESIDE RI/FS.
2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (AMSL) RELATIVE TO NGVD OF 1929.
3. F, M, C = FINE, MEDIUM, COARSE.

LEGEND



SAGINAW MALLEABLE IRON PLANT PROPERTY,
 GREEN POINT LANDFILL,
 AND DRUM REMEDIATION AREA
 SAGINAW, MICHIGAN
 REMEDIAL INVESTIGATION

GEOLOGIC CROSS SECTION F-F'



LEGEND

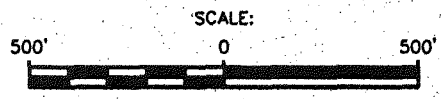
- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 ⊙ MONITORING WELL
- MW-102WT,S1 ⊙ MONITORING WELL CLUSTER
- SG5 ⊙ STAFF GAGE
- TP-2 ⊙ PIEZOMETER
- RW-4 ⊙ RECOVERY WELL
- X-6 ⊙ ABANDONED MONITORING WELL
- SG3 ⊙ ABANDONED STAFF GAGE

- 582.88 GROUNDWATER ELEVATION (FEET AMSL)
- 582 --- GROUNDWATER ELEVATION CONTOUR LINE (FEET AMSL), DASHED WHERE INFERRED
- ➔ GROUNDWATER FLOW DIRECTION

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
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3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.

4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN, SEDIMENTATION BASINS, WETLANDS MITIGATION AREA, AND GREEN POINT LANDFILL (GPL) FINAL COVER FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.



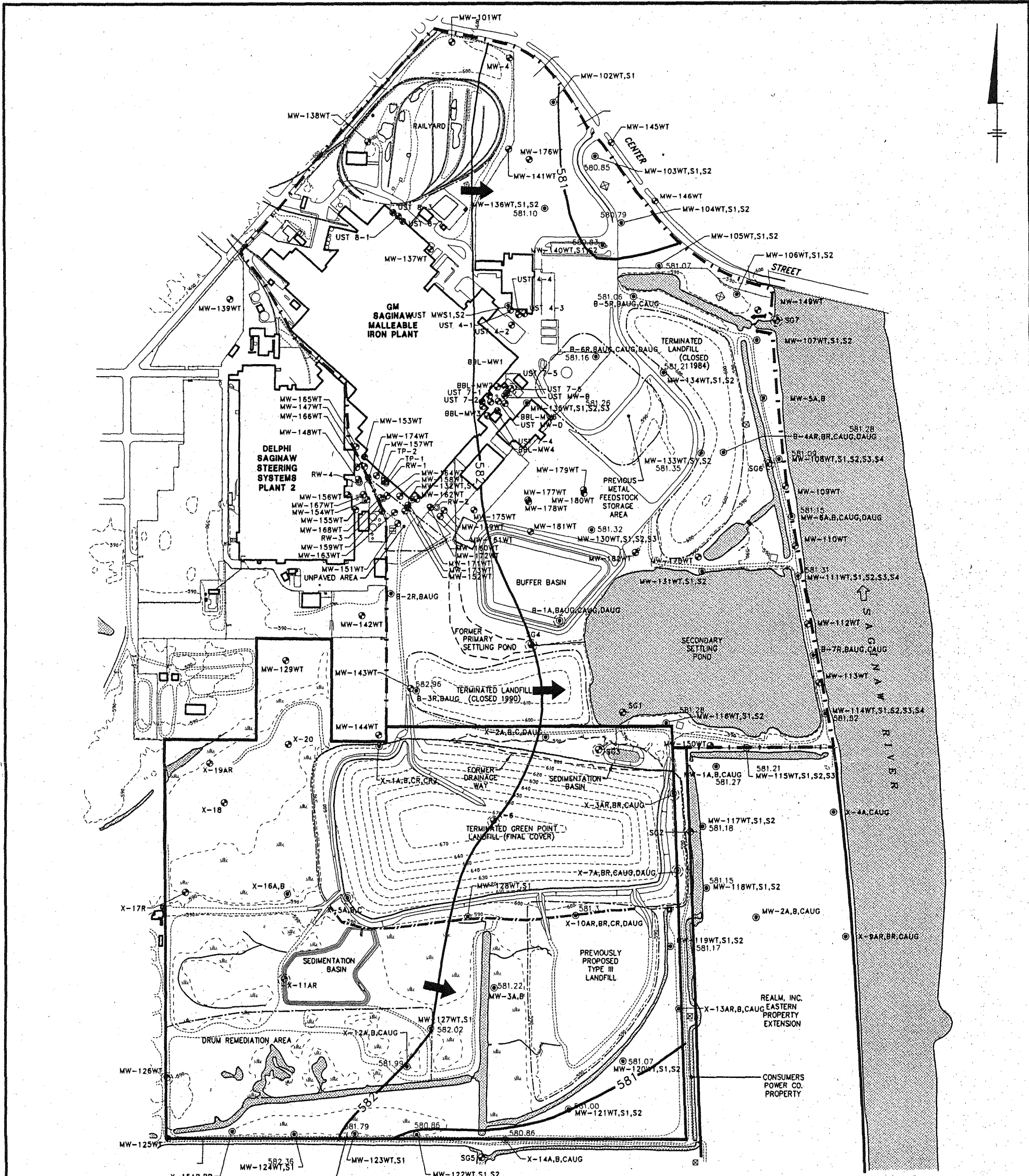
SAGINAW MALLEABLE IRON PLANT PROPERTY,
GREEN POINT LANDFILL,
AND DRUM REMEDIATION AREA
SAGINAW, MICHIGAN

REMEDIAL INVESTIGATION

**WATER TABLE ELEVATION
CONTOUR MAP - MAY 16, 2000**

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
3-14



LEGEND

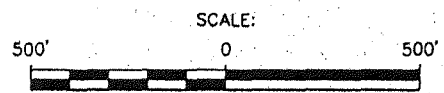
- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- - - - - GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 ● MONITORING WELL
- MW-102WT,S1 ● MONITORING WELL CLUSTER
- SG5 ● STAFF GAGE
- TP-2 □ PIEZOMETER
- RW-4 ● RECOVERY WELL
- X-6 ● ABANDONED MONITORING WELL
- SG3 ● ABANDONED STAFF GAGE

- 582.96 POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL)
- 578 --- POTENTIOMETRIC SURFACE ELEVATION CONTOUR LINE (FEET AMSL), DASHED WHERE INFERRED
- ➔ GROUNDWATER FLOW DIRECTION

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP FOR THE GM SAGINAW MALLEABLE IRON PLANT AND DELPHI SAGINAW STEERING SYSTEMS PLANT 2 PROPERTIES WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
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SAGINAW MALLEABLE IRON PLANT PROPERTY,
GREEN POINT LANDFILL,
AND DRUM REMEDIATION AREA
SAGINAW, MICHIGAN

REMEDIAL INVESTIGATION

**POTENTIOMETRIC SURFACE
ELEVATION CONTOURS FOR LOWER
SAND UNIT - MAY 16, 2000**

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
3-18

Appendix B

Notice of Migration of Contamination



**Worldwide Facilities Group
Remediation Team**

Transmitted Via FedEx and Facsimile

September 18, 2003

Remediation and Redevelopment Division
Saginaw Bay District Office
Michigan Department of Environmental Quality
503 N. Euclid Ave., Suite 1
Bay City, MI 48706-2965

Re: Form 4482; Notice of Migration of Contamination
General Motors Corporation Saginaw Malleable Iron Plant Property, Saginaw, Michigan

Dear MDEQ Representative,

The General Motors Corporation (GM), hereby provides a completed form EQP 4482 to advise you of contaminant migration pursuant to Part 201 of Act 451. Although the information provided is sufficient to satisfy obligations pursuant to both R 299.5522 and R 299.51017, provision of this information does not indicate that REALM admits to being subject to MCL 324.20114 for conditions at this location.

For additional information regarding this submittal or conditions at this location please contact me at 248-680-5219.

Sincerely,

Cheryl R. Hiatt
Senior Environmental Engineer
General Motors Corporation

cc: Edward Peterson, GM
Anthony Thrubis, GM

bcc: Lisa Coffey, Blasland, Bouck & Lee, Inc.



For DEQ Use Only	
ITS #	_____
Site ID #	_____
Category Code:	_____

NOTICE OF MIGRATION OF CONTAMINATION

(Under the authority of Part 201, Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, (NREPA) and the Rules promulgated thereunder)

An owner or operator of property that is a facility, and/or who is subject to MCL 324.20114, and who has reason to believe that a hazardous substance is emanating from, has emanated from, or is likely to be emanating from the property and migrating beyond the boundaries of the property that he or she owns or operates is required under R 299.5522 and R 299.51017(1) to notify the Michigan Department of Environmental Quality ("DEQ") and affected property owners, unless he or she is exempt from MCL 324.20107a (see MCL 324.20107a(4) for exemptions), or unless he or she has provided the notice required by MCL 324.21309a.

The notice must be provided within 45 days after the owner or operator has reason to believe that hazardous substances have migrated, or are likely to have migrated, to or beyond the boundary of his or her property (see R 299.51017 and R 299.5522 for exceptions). If a person is required to provide additional notice as a result of the changes in R 299.51017 that took effect on December 21, 2002, then that additional notice shall be provided not later than September 21, 2003.

Use of this form is mandatory for the notice required by R 299.51017(1) and may also be used by parties subject to MCL 324.20114 to provide notice required by R 299.5522. This form may also be used to provide notice to affected property owners as required by those rules.

If a person holds a permit for an oil and gas well under Part 615, Supervisor of Wells, of the NREPA and there is a release from the oil and gas exploration or production activities, that person shall give notice to the DEQ and to the owner of the surface rights of the property.

If a person holds an easement and there is a release from the easement holder's activities, that person shall provide notice to the DEQ and to the grantor of the easement, or the grantor's successor in interest, if any.

Completing this notice in no way relieves a person who is subject to MCL 324.20114 from the responsibility to undertake required response activities.

This notice must be sent to the DEQ office that serves the county in which the property is located. A list of DEQ offices is attached. The DEQ will not prepare acknowledgement of receipt of these notices. The sender is responsible for sending the report using a method that provides proof of delivery if such proof is desired. Please label the outside of the envelope "Migration Notice."

THIS NOTICE IS PROVIDED PURSUANT TO: R 299.5522 R 299.51017
(check both, if applicable)

Please provide the following information as completely as possible.

- 1. Name and location of the property that hazardous substances are emanating from:
- 2. Status relative to the property:
(Check one or both, as applicable.)

Name: General Motors
 Address: 77 W. Center Street
 Location: Saginaw Malleable Iron Plant
 City/County: Saginaw, Saginaw, County
Refer to Figures 1 and 2)

Owner
 Operator

Please provide any additional ID numbers associated with the property (e.g., EPA ID No., BEA No., etc.)

Tax ID: 19 2232 00000

3. Name, address and telephone number of the property owner or operator submitting the notice:

Name: [REDACTED]
Address: [REDACTED]
City/State: [REDACTED]
Telephone number: [REDACTED]

4. Name, address and telephone number of a contact person familiar with the content of the notice:

Name: [REDACTED]
Address: [REDACTED]
City/State: [REDACTED]
Telephone: [REDACTED]

5. If this Notice is provided pursuant to R 299.51017, provide the address and other location information for the adjacent property onto which contamination has migrated. If this Notice is provided pursuant to R 299.5522, provide the address and other location information for each property onto which contamination has migrated.

Address: Delphi Automotive Systems LLC
PO Box 5082
City/State: Troy, MI
Property Tax ID number: 19 2231 00100
Other:

Notified? No Yes Date: Sept. 18, 2003

Address: City of Saginaw
1315 S. Washington Ave.

Notified? No Yes Date: Sept. 18, 2003

City/State: Saginaw, MI
Property Tax ID number: N/A - right-of-way in W. Center Street
Other:

Address: [REDACTED]
City/State: [REDACTED]
Property Tax ID number: [REDACTED]
Other: [REDACTED]

Notified? No Yes Date: [REDACTED]

Address: [REDACTED]
City/State: [REDACTED]
Property Tax ID number: [REDACTED]
Other: [REDACTED]

Notified? No Yes Date: [REDACTED]

Address: [REDACTED]
City/State: [REDACTED]
Property Tax ID number: [REDACTED]
Other: [REDACTED]

Notified? No Yes Date: [REDACTED]

Address: [REDACTED]
City/State: [REDACTED]
Property Tax ID number: [REDACTED]
Other: [REDACTED]

Notified? No Yes Date: [REDACTED]

(Attach additional pages as needed)

6. Complete the Table on Page 3 of this Form for each hazardous substance which has migrated, or is likely to have migrated, beyond the property boundary at a concentration that exceeds a Generic Residential Cleanup Criterion developed by the DEQ pursuant to MCL 324.20120a(1). Complete and attach additional copies of Page 3, if necessary, to list all hazardous substances that must be reported. Include a scaled map or drawing that shows the location of sampling points identified on the Table on Page 3.

7. Provide a summary of the information which shows that contamination is emanating from, or has emanated from, and is present beyond the boundary of the source property at a concentration which exceeds that allowed by MCL 324.20120a(1)(a). This summary shall identify the environmental media affected, specific hazardous substances, and the concentrations of those hazardous substances in all affected environmental media at the property boundary and in any sample locations beyond the property boundary. The summary shall also describe the basis for the conclusion that the contamination is emanating, has emanated, or is present beyond the boundary of the source property, including whether the conclusion is based on groundwater analytical data or fate and transport modeling, both, or neither.

The groundwater flow direction at the GM SMI Plant Property is generally toward the Saginaw River located adjacent to the eastern property boundary; however, the direction of groundwater flow varies due to mounding caused by onsite stormwater management features (Figure 3). Groundwater flows offsite along a portion of the northern property boundary, a limited section of the western property boundary, and along the eastern property boundary. To obtain a list of constituents that may have migrated off-site at concentrations above MDEQ Generic Residential Criteria, groundwater quality data collected from the permanent site monitoring wells located closest to the downgradient property boundaries were compared to the Generic Residential Criteria. Due to the presence of the Saginaw River along the eastern property boundary, the Groundwater Surface Water Interface Criteria were compared to data collected at the Saginaw River perimeter monitoring well clusters (Figure 2). Each constituent detected above one or more relevant Generic Residential Criteria is listed on the table included with this reporting form, with the exception of constituents that were detected above criteria on one date followed by two or more sampling events that did not indicate that the sampled constituent was present above the Generic Residential Criteria. Inorganic constituents are listed if a Generic Residential Criteria is exceeded in either a dissolved or total sample. This approach provides a conservative assessment of potential offsite impacts.

Concentrations of phenol, aluminum, arsenic, barium, chromium, copper, cyanide, iron, lead, manganese, sodium, thallium, and vanadium were detected in groundwater above one or more of the Generic Residential Criteria in the permanent monitoring wells located closest to the downgradient site boundaries. Two monitoring wells are located offsite, in the right of way for Center Street, north of the site (Figure 2). A notice has been filed with the City of Saginaw regarding potential impacts to groundwater on their property; however, due to the location of the Former Queen Street Dump in this area, it is not believed that the source of the detected constituents is activities completed by GM. The notice is being provided as a conservative precaution to ensure compliance with Part 201. A notice is also being filed with Delphi Automotive Systems due to the presence of sodium in monitoring well B-2BAUG located along the western site perimeter, upgradient of the Delphi Site (Figures 2 and 3). The following table presents a summary of the constituents detected along each downgradient site boundary in permanent monitoring wells, and the range of concentrations detected above the Generic Residential Criteria.

Downgradient Site Boundary	Constituent Detected Above Relevant Residential Criteria	Concentration Range Above Relevant Criteria (ug/L)
Northern Site Boundary	Aluminum	320 (one well; only time sampled)
	Barium	2,290 (7/95, 6/96 data less than criteria)
	Iron	16,400 – 31,000
	Sodium	122,000 – 4,660,000
	Vanadium	27 – 56
Western (Delphi) Property Boundary	Sodium	433,000 (one well; only time sampled)
Saginaw River Boundary	Phenol	6,200 (one well; data for two other events rejected, fourth round non-detect)

	Arsenic	230 (6/96; 5/00 data less than criteria)
	Chromium	117 (6/96 data not detected)
	Copper	40 - 54
	Cyanide, total	6.7 - 38
	Lead	42 - 54 (3 wells, each only time detected)
	Manganese	2,200 - 4,800
	Thallium	3.8 - 7.6
	Vanadium	26 - 45

Note: Constituents and Data are not listed for Locations where a constituent was detected above criteria on one date followed by two or more sampling events that did not indicate that the constituent was present above Generic residential criteria.

8. If the person making this notice has reason to believe that a migrating hazardous substance has affected, or is likely to affect, a private or public water supply, then that water supply must be identified here:

Not applicable.

- | | YES | NO |
|---|-------------------------------------|-------------------------------------|
| 9. Is this notice being submitted within the timeframes established under R 299.5522 and/or R 299.51017, as applicable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Is this notice in addition to a notice submitted prior to <i>December 21, 2002</i> ? (R 299.51017(4)(c)) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. Is this notice related to an oil and gas well permit (R 299.51017(2))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Is this notice related to an easement (R 299.51017(3))?
(NOTE: All easement grantors <i>must</i> receive this notice.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13. Has a surface water been affected (R 299.51017(1) and R 299.5522(2))?
(If yes, please identify the affected surface water body.) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

The Saginaw River is located adjacent to the eastern side of the site. A discussion of the groundwater data collected at the Saginaw River site perimeter is presented in Section 4 of the Feasibility Study (FS) prepared for the site (BBL, July 29, 2003). This section of the FS is provided as an attachment to this notice.

CERTIFICATION:

With my signature below, I certify that I am the owner of the facility or that I am legally authorized to execute this notice on behalf of the owner or operator named on this form, and that to the best of my knowledge and belief the above representations are complete and accurate. I understand that intentionally submitting false information to the DEQ is a felony and may result in fines up to \$25,000 for each violation.

Signature *C Cheryl R Hiatt on behalf of General Motors Corp.* Date 09/18/03
(Owner or person legally authorized to bind the person making this report)

Name (Typed or Printed) CHERYL R. HIATT

Title (Typed or Printed) SENIOR ENVIRONMENTAL ENGINEER



NOTICE OF MIGRATION OF CONTAMINATION

(Under the authority of Part 201, Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, (NREPA) and the Rules promulgated thereunder)

See Item 6 on Page 2 of this Form for instructions to be used in completing this Table. Attach additional pages if necessary. The information to be included in each column of the Table is:

- Column A Name of hazardous substance.
- Column B Chemical Abstract Service (CAS) Number for the hazardous substance.
- Column C Sample location for Column C (relate to label on map).
- Column D Maximum hazardous substance concentration measured on the property, expressed parts per billion (e.g., ug/L or ug/Kg). Report maximum concentration separately for each environmental medium.
- Column E Environmental medium in which concentration reported in Column C was measured (e.g., soil or groundwater).
- Column F Distance from point of maximum measured concentration (Column D) to property boundary, in direction of contaminant migration, if direction is known or can reasonably be inferred. If direction is unknown, list distance to nearest property boundary.
- Column G Direction of contaminant migration, if known.
- Column H Sample location for Column I (relate to label on map).
- Column I Concentration closest to property boundary, if known. If a concentration lower than the maximum concentration reported in Column C has been measured at a point closer to the property boundary in the direction of contaminant migration, use Column I to list the concentration that was measured closest to the property boundary in the direction of contaminant migration.
- Column J Environmental medium for measurement reported in Column I, if applicable.

A Hazardous Substance	B CAS Number	C Maximum Concentration	D Sample Location for "C"	E Environmental Medium for "C"	F Distance to Property Boundary	G Direction of Migration	H Sample Location for "I"	I Boundary Concentration	J Environmental Medium for "I"
Phenol	108-95-2	6,200	MW-111S3	groundwater	25 ft.	E	MW-111S3	6,200	groundwater
Aluminum	7429-90-6	19,700	MW-111WT	groundwater	25 ft.	E	MW-111WT	19,700	groundwater
Arsenic	7440-38-2	230	MW-149WT	groundwater	65 ft.	E	MW-149WT	230	groundwater
Barium	7440-39-3	2,290	MW-104WT	groundwater	60 ft.	NE	MW-104WT	2,290	groundwater
Chromium	7440-47-3	117	MW-111WT	groundwater	25 ft.	E	MW-111WT	117	groundwater
Copper	7440-50-8	54	MW-112WT	groundwater	15 ft.	E	MW-112WT	54	groundwater
Cyanide, Total	57-12-5	81	B-4AR	groundwater	290 ft.	E	B-7CAUG	38	groundwater
Iron	7439-89-6	69,400	MW-112WT	groundwater	15 ft.	E	MW-112WT	69,400	groundwater
Lead	7439-92-1	114	UST7-2	groundwater	680 ft.	ESE	MW-109WT	54	groundwater
Manganese	7439-96-5	4,800	MW-108WT	groundwater	20 ft.	E	MW-108WT	4,800	groundwater
Sodium	7440-23-5	4,660,000	MW-103S2	groundwater	70 ft.	NE	MW-103S2	4,660,000	groundwater
Thallium	7440-28-0	7.9	MW-111WT	groundwater	25 ft.	E	MW-111WT	7.9	groundwater
Vanadium	7440-62-2	56	MW-103S2	groundwater	70 ft.	NE	MW-103S2	56	groundwater

Total Number Samples Collected: 319 groundwater Total Number of Samples Exceeding Criteria: 319 groundwater

**ADDRESSES FOR SUBMITTALS
TO DEPARTMENT OF ENVIRONMENTAL QUALITY**

All Upper Peninsula counties:

Remediation and Redevelopment Division
(RRD)
Upper Peninsula District Office
K.I. Sawyer International Airport and
Business Center
420 Fifth Street
Gwinn, Michigan 49855-9198
(906) 346-8300

**Benzie, Grand Traverse, Lake, Leelanau,
Manistee, Mason, Osceola, and Wexford
counties:**

RRD
Cadillac District Office
120 W. Chapin St.
Cadillac, Michigan 49601
(231) 775-3960

**Alcona, Alpena, Antrim, Charlevoix,
Cheboygan, Crawford, Emmet, Kalkaska,
Missaukee, Montmorency, Oscoda, Otsego,
Presque Isle, and Roscommon counties:**

RRD
Gaylord Field Office
1732 West M-32
P.O. Box 667
Gaylord, Michigan 49735-0667
(989) 731-4920

**Arenac, Bay, Clare, Gladwin, Huron, Iosco,
Isabella, Midland, Ogemaw, Saginaw, Sanilac,
and Tuscola counties:**

RRD
Saginaw Bay District Office
503 N. Euclid Ave., Suite 1
Bay City, Michigan 48706-2965
(989) 686-8025

**Barry, Ionia, Kent, Mecosta, Montcalm,
Muskegon, Newaygo, Oceana, and Ottawa
counties:**

RRD
Grand Rapids District Office
245 Colrain, SW
Wyoming, Michigan 49548-1013
(616) 246-1720

**Clinton, Eaton, Genesee, Gratiot, Ingham,
Lapeer, Livingston, and Shiawassee counties:**

RRD
Lansing District Office
P.O. Box 30426
525 W. Allegan Street
Lansing, Michigan 48909
(517) 335-6010

**Macomb, Oakland, St. Clair, and Wayne
counties (except City of Detroit):**

RRD
Southeast Michigan District Office
38980 Seven Mile Road
Livonia, Michigan 48152-1006
(734) 953-8905

(City of Detroit, Hamtramck and Highland Park)

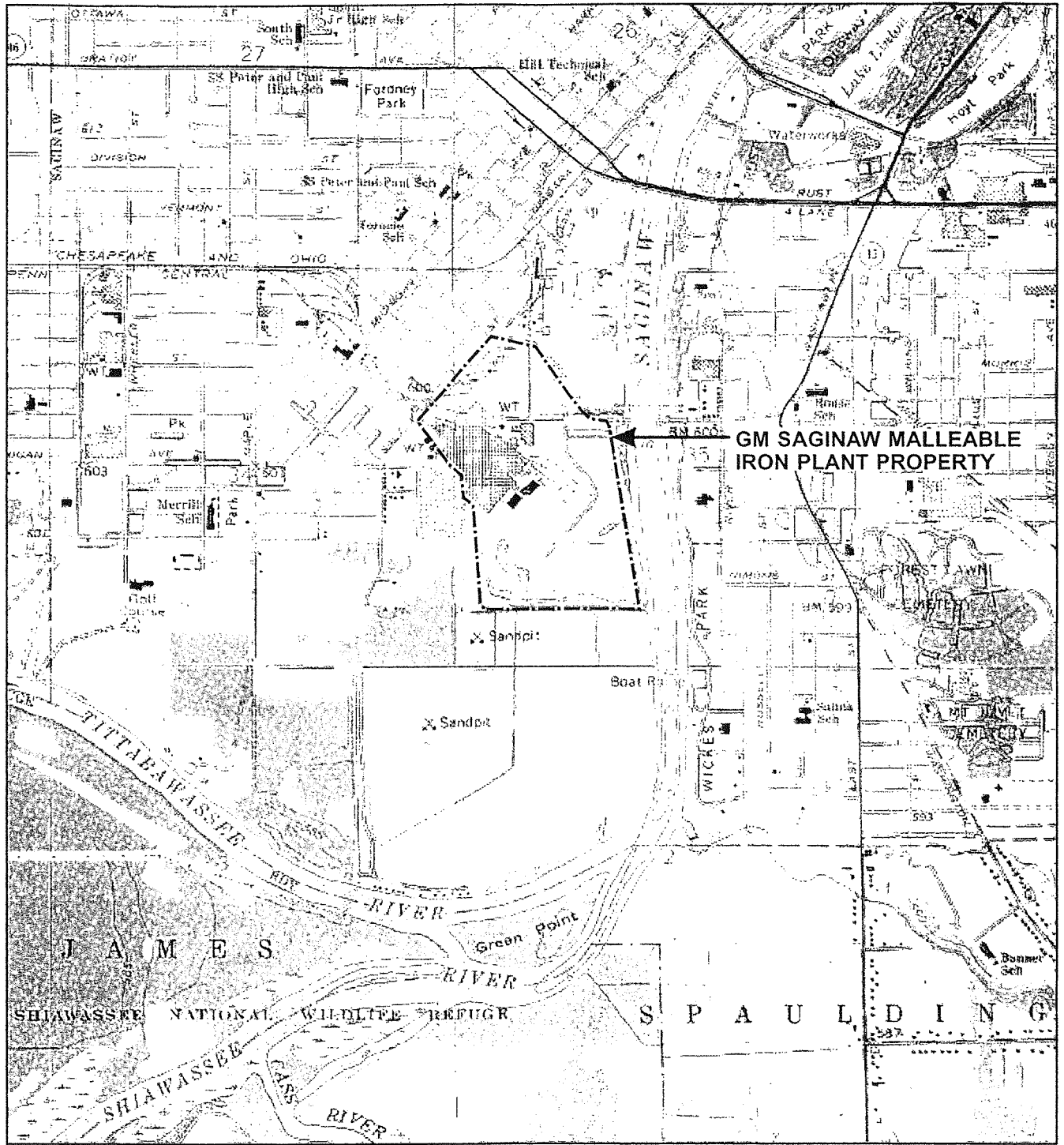
RRD
Detroit Office
3058 W. Grand Blvd.
Cadillac Place, Suite 2-300
Detroit, Michigan 48207
(313) 456-4700

**Hillsdale, Jackson, Lenawee, Monroe, and
Washtenaw counties:**

RRD
Jackson District Office
Jackson State Office Building
301 E. Louis Glick Highway
Jackson, Michigan 49201-1556
(517) 780-7690

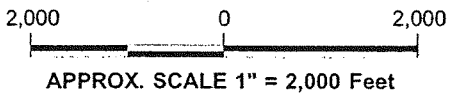
**Allegan, Berrien, Branch, Calhoun, Cass,
Kalamazoo, St. Joseph, and Van Buren
counties:**

RRD
Kalamazoo District Office
7953 Adobe Road
Kalamazoo, Michigan 490009
(269) 567-3500



NOTES:

1. Base map source: USGS 7.5 Min. Topo. Quad., Saginaw, Mich. (1967, Photorevised 1973).
2. Locations of Green Point Landfill and Drum Remediation Area are approximate.
3. All property boundary lines are approximate.

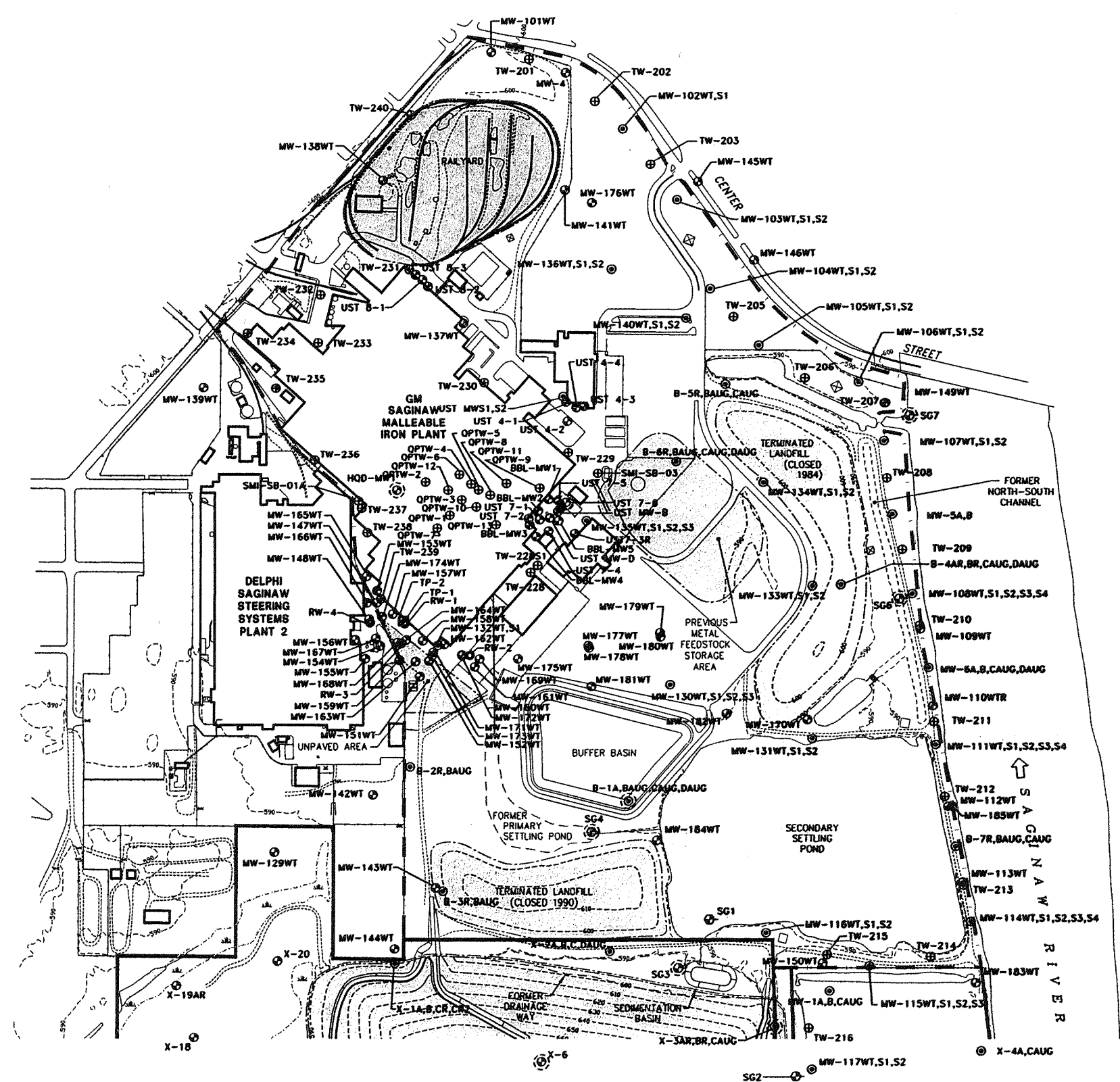


GM SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SITE LOCATION MAP

BBL[®]
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
1

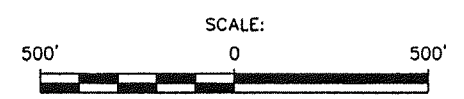


LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- - - - GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 ● MONITORING WELL
- MW-102WT,S1 ● MONITORING WELL CLUSTER
- SG5 ⊕ STAFF GAGE
- TW-203 ⊕ TEMPORARY MONITORING WELL
- TP-2 ⊕ PIEZOMETER
- RW-4 ● RECOVERY WELL
- X-6 ⊕ ABANDONED MONITORING WELL
- SG3 ⊕ ABANDONED STAFF GAGE

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN AND SEDIMENTATION BASIN. SEDIMENTATION BASIN LOCATION FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY, 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
6. SOIL BORING LOCATIONS FOR SOUTHERN PROPERTY DIGITIZED FROM ECOLOGICAL RISK ASSESSMENT BY EXPONENT, DATED 9/18/00.



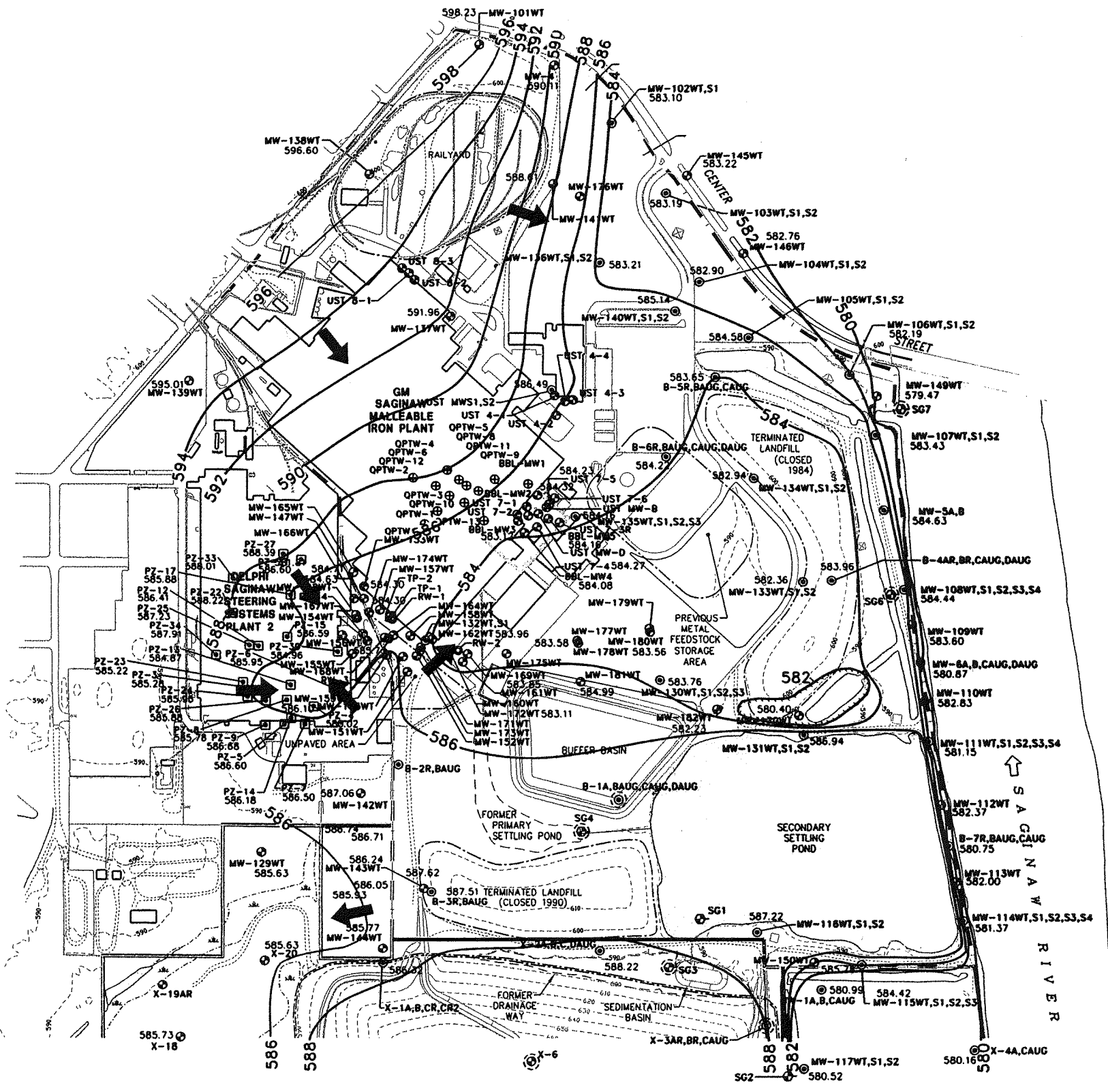
SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

**MONITORING WELL AND
TEMPORARY WELL LOCATION MAP**

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2

X: 93002X02.DWG
L: ON=*, OFF=REF*
P: PAGESSET/BP (PLTHALF.CTB)
9/16/03 SYR-54-DMW
27606090/SMI/27608801.DWG



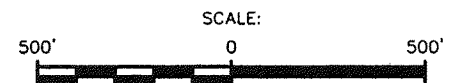
LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- (S) SWAMPY AREA
- MW-4 Monitoring Well
- MW-102WT,S1 Monitoring Well Cluster
- SG5 Staff Gage
- TW-203 Temporary Monitoring Well
- TP-2 Piezometer
- RW-4 Recovery Well
- X-6 Abandoned Monitoring Well
- SG3 Abandoned Staff Gage

- 582.88 GROUNDWATER ELEVATION (FEET AMSL)
- 582 GROUNDWATER ELEVATION CONTOUR LINE (FEET AMSL), DASHED WHERE INFERRED
- ➔ GROUNDWATER FLOW DIRECTION

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN AND SEDIMENTATION BASIN. SEDIMENTATION BASIN LOCATION FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY, 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.



SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

**WATER TABLE ELEVATION
CONTOUR MAP - MAY 16, 2000**

FIGURE
3

L: ON * OFF * REF *
 X: 27608XX1.DWG
 P: 27608W01, BTDW01.PCP
 9/16/03 SYR-54-DMW
 27608090/SMI/27608W01.DWG

Attachment to Form EQP4482 Prepared for the General Motors Saginaw Malleable Iron Plant Property

Excerpt from the Feasibility Study prepared for the Saginaw Malleable Iron Plant Property and REALM Inc. Green Point Landfill and Drum Remediation Area, Saginaw, Michigan; July 29, 2003.

4. Evaluation of Groundwater Quality at Saginaw River Perimeter

4.1 Data Summary - Temporary Monitoring Wells

Groundwater samples were collected from 19 temporary monitoring wells installed at seven monitoring well cluster locations along the Saginaw River perimeter. Each groundwater sample was analyzed for USEPA SW-846 TCL VOCs, SVOCs, total and dissolved PCBs, and dissolved TAL inorganics. Installation and sampling of the temporary wells was completed to further characterize the groundwater at the site perimeter and to assist in locating permanent wells. Temporary well data are not considered as reliable for sorptive analytes (e.g., PCBs, inorganics, and certain SVOCs) because they tend to produce turbid samples that are not representative of groundwater chemistry. Thus, while the detection in a groundwater sample of a sorptive analyte may not represent actual groundwater quality, the absence of this type of constituent should be indicative of groundwater quality. Therefore, these temporary well samples can provide a preliminary screening level characterization of groundwater quality. In response to the detection of analyte concentrations above the generic MDEQ criteria, permanent monitoring wells were installed (MW-149WT, MW-109WT, MW-110WT, MW-112WT, and MW-113WT).

The exposure point concentration for each constituent was compared with relevant MDEQ generic cleanup criteria. The results of this analysis revealed:

VOCs: No generic GSI, GCC, FESL, or WSSL values for VOCs were exceeded in the samples collected from the temporary monitoring wells.

SVOCs: No generic GCC, FESL or WSSL values for SVOCs were exceeded in samples collected from temporary monitoring wells. The generic GSI value for bis(2-ethylhexyl)phthalate (32 µg/L) was exceeded at two temporary monitoring well locations: TW-209WT (49 µg/L) and TW-210S1 (34 µg/L).

PCBs: No generic GCC or WSSL values for PCBs (unfiltered or filtered) were exceeded in samples collected from the temporary monitoring wells. No PCBs from filtered samples exceeded the generic GSI value for PCBs. The generic GSI value for PCBs was exceeded in unfiltered samples from four temporary monitoring wells.

Inorganics: Samples from the temporary monitoring wells were analyzed for unfiltered and filtered (dissolved) inorganics and total cyanide. As provided by MDEQ Operational Memorandum #18 (MDEQ, 2000), site-specific background values for copper, manganese, and zinc were substituted for the GSI values. Dissolved inorganics detected above the higher of the generic GSI or site-specific background values were arsenic and manganese. No generic GCC values were exceeded in the samples collected from temporary monitoring wells along the Saginaw River perimeter.

4.2 Data Summary - Permanent Monitoring Wells

Groundwater samples were collected from 40 permanent monitoring wells along the Saginaw River perimeter. The concentration of each constituent was compared with relevant MDEQ generic cleanup criteria. Table 4-1 provides a summary of analytical data for the sampling locations where constituents were detected above the generic GSI criteria on at least one occasion. The constituent concentrations detected at permanent monitoring wells located along the Saginaw River and the generic MDEQ criteria are compared below.

VOCs: No generic GCC, FESL, or WSSL values for VOCs were exceeded in the samples collected from the permanent wells. The generic GSI value for total xylenes was exceeded at one permanent well (MW-6CAUG) during the first sampling event in 1995. Two subsequent sampling events, however, indicated no VOC detections above the GSI criteria at this well. Therefore, additional response activity is not warranted at the MW-6CAUG location.

SVOCs: No generic GCC, FESL or WSSL values for SVOCs were exceeded in samples collected from permanent monitoring wells. Phenol and bis(2-ethylhexyl)phthalate were each detected at concentrations above the generic GSI values during the initial sampling event at one monitoring well (Table 4-1). Subsequent sampling results, however, including recent data collected in May 2000, showed no GSI exceedances for these compounds. Therefore, additional response activity at these well locations is not warranted.

PCBs: No generic GCC or WSSL values for PCBs (unfiltered or filtered) were exceeded in samples collected from the permanent monitoring wells. Filtered samples did not exceed the generic GSI value for PCBs, however, unfiltered samples from a few wells initially did exceed the GSI value. While unfiltered samples from the wells located closest to the Saginaw River currently do not exceed GSI, the PCB monitoring results require a more in-depth analysis than the other constituents. The interpretation of PCB results is somewhat more complicated than other constituents at the Site because there has been no identified background concentration, the GSI criteria has been established at the target detection limit (TDL), and PCBs are highly adsorbed onto fine soil particles that may become entrained into the water sample collected for analysis. The inadvertent introduction into the sample of a few soil particles with PCBs (PCBs have been detected at low concentrations in the berm soil) can result in the detection of PCBs in an unfiltered groundwater sample when in fact PCBs are not present in groundwater. Furthermore, in an effort to minimize the potential for this type of false positive result, several corrective measures such as additional well purging and the use of different sample collection procedures (lower flow rates) have been implemented since initial completion of the Work Plan.

There have been very few detections of PCBs in unfiltered samples from the 40 permanent monitoring wells installed along the river boundary. The generic GSI value for PCBs was initially exceeded in unfiltered samples from five permanent monitoring wells in 1995. However, these samples generally exhibited the highest levels of turbidity because of inadequate well development (due to fine grained soils with low groundwater yields) and sample collection methods which did not minimize the artificial turbidity in the well. Following the initial groundwater sampling events completed in July 1995 and June 1996, in accordance with the RI Work Plan, additional sampling has been completed at the monitoring wells along the river that were found to contain detectable levels of PCBs during the initial sampling events. Several wells (MW-111S4 and MW-108S1) were found to contain PCBs during the initial sampling round only. At other locations, PCBs were detected during subsequent sampling events. Figure 4-1 illustrates the location of the permanent monitoring wells associated with the detections of PCBs on one or more sampling dates. As described below, analysis of samples collected during the latest sampling events indicate no current exceedance of GSI criteria.

During preparation of the Work Plan, it was known that artificially produced turbidity during sample collection could create false positive detections of PCBs (i.e., detections of PCB when none actually exist) in groundwater samples where PCB soil contamination was present. Therefore, a field filtered PCB sample was added to the unfiltered sample requirement to further assess whether detections in the unfiltered sample were actually

dissolved in groundwater. There have been no exceedances of GSI criteria for PCBs in any of the filtered samples analyzed.

At the time of the Work Plan preparation, other strategies designed to exclude the inadvertent introduction of particulates into the well were just being developed in the scientific community and thus were not included. These techniques include alternative well installation methods, enhanced well development and purging processes, and low flow sampling methodologies that mimic the natural rate of groundwater flow. Subsequent to implementation of the Work Plan, these techniques have become widely accepted and, when implemented, have been found to minimize the occurrence of false positive detections of highly adsorptive constituents like PCBs. Thus, these techniques have been utilized in the latter sampling rounds with generally positive results, supporting the use of filtered PCB sampling data to assess the presence absence of PCBs that are mobile in the groundwater system under material conditions. As shown in Table 4-1, the detected total PCB concentrations and the number of river perimeter wells with detections have decreased over time.

The most significant of these techniques has been the change from sampling using moderate-flow procedures (purge rates of up to 9.5 L/min; sampling rates of 100 ml/min), which disturb the water column and introduces high levels of artificial turbidity during sampling, to low (purge rate of up to 500 ml/min; sampling rate of 100 ml/min) and "ultra" low-flow (purge and sampling rate of 1 L/hr, which minimizes sample turbidity by mimicking the rate of natural groundwater flow) sample collection methods. In addition, the accumulative amount of water purged prior to sample collection has increased significantly more completely removing fine soil particles from the sand pack prior to sample collection. Unless removed, these fine soil particles can be slowly released during the sample collection process, thus increasing the level of artificial turbidity in the sample. Figure 4-2 illustrates the overall relationship between the PCB analytical data, the various sampling rounds, and the method of sample collection. Following implementation of an ultra low-flow sampling method (which minimizes sample turbidity) in May 2000, PCBs have been detected at only one monitoring well (MW-112WT), during one of two sampling events.

The available data collected from the various sampling rounds clearly indicates that the PCB detections are related to sample collection methods. When PCBs have been detected in unfiltered samples from wells along the river boundary, the paired filtered sample results have been below the GSI criteria. This suggests that the PCBs were adsorbed to particulates that are larger than the filter size of 0.45 microns. The impact of particulates on unfiltered groundwater samples is further demonstrated by the analytical data from samples previously collected from the temporary monitoring wells. The temporary wells were installed for screening purposes, and as such they were not developed as thoroughly as the permanent wells nor were low flow sampling techniques used, therefore samples had much higher levels of turbidity. At these locations, PCB concentrations were significantly higher than those detected in samples collected from nearby permanent monitoring wells (generally by orders of magnitude). These data demonstrate that the higher particulate content of groundwater collected from the temporary wells resulted in higher detections of the particulate-sorbed PCBs.

Similarly, PCBs were initially detected in unfiltered groundwater samples from permanent monitoring wells, which were installed in fine grain soils containing low concentrations of PCBs. However, the PCB concentrations have declined through time due to continued well development and improvements in sampling methodology that have minimized unrepresentative sample turbidity. Figures 4-3 through 4-9 illustrates the relationship between measured sample turbidity and detected PCB concentration. As shown by these figures, there is, in almost every instance, a direct correlation between sample turbidity and the detected concentration of PCBs. Ideally, trends of detected PCB concentration would mimic the trend in the turbidity level at a particular well. However, several factors may confound such an ideal relationship. First, variations from this correlation are found in some instances where measured turbidity is very low (less than 0.5 nephelometric turbidity units [NTUs]) due to the sensitivity range of the turbidity meter. Second, heterogeneous levels of PCB concentrations on entrained particulates can result in an uneven relationship between turbidity and PCB detections. Nevertheless, a distinct trend is observable in the body of the data.

These new techniques to minimize artificial sample turbidity have been successful. The groundwater samples collected from the monitoring wells along the Saginaw River in May 2000 were non-detect for PCBs (filtered and unfiltered samples). In April 2001, samples were collected for PCB analysis from four monitoring wells located along the river that had contained detectable concentrations of PCBs during any of the previous three sampling events. The data were non-detect for PCBs, with the exception of the sample collected from MW-112WT, which contained PCBs at a concentration of 0.20 µg/L (0.24 µg/L upon reanalysis). These samples were collected using a modified sampling procedure as described in the Quality Assurance Project Plan (QAPP) Addendum (Attachment L-A to the RI/FS Work Plan), which incorporates a peristaltic pump to allow lower purging and sampling rates to minimize disturbance of the natural groundwater flow rates in the soil.

Due to the sporadic detection of PCBs at MW-112WT since 1997, a new monitoring well (MW-185WT) was installed downgradient of MW-112WT in November 2001 to establish an alternate GSI monitoring point, and to potentially demonstrate that the PCB detections at MW-112-WT represent non-mobile PCBs present in soil. The well was installed using driven casing to advance the boring (instead of hollow-stem-augers) to minimize disturbance of the subsurface soil structure. Replacement well MW-110WTR (replacement for MW-110WT; damaged by tree roots) was also installed in November 2001. Unfiltered groundwater samples collected from the two new wells in November 2001 were non-detect for PCBs. The absence of detectable levels of PCBs in these samples is consistent with the premise that the PCBs previously detected in monitoring wells located along the Saginaw River are the result of particulates being introduced into the samples due to the more disruptive methods previously used to install wells and collect groundwater samples.

In summary, the available data indicate that PCBs are not present in groundwater adjacent to the Saginaw River at concentrations above the laboratory detection limit. Previous detections of PCBs in groundwater appear to be the result of the inadvertent introduction of fine soil particles into the monitoring wells during sample collection. This conclusion is supported by the absence of PCB exceedances in all of the filtered samples (with the exception of one collected at monitoring well MW-112WT) and unfiltered samples that were collected utilizing techniques to reduce artificial turbidity. As well, the berm area along the Saginaw River is constructed of fine grain soils containing low concentrations of PCBs. These conditions are inconsistent with the PCB detections resulting from a source area contributing dissolved PCBs but are consistent with the inadvertent introduction of fine soil particles into the monitoring wells. Additional groundwater sampling will be conducted as described in Section 4.3 to confirm these findings.

Pesticides and Herbicides: Groundwater samples from two monitoring wells along the Saginaw River were analyzed for pesticide and herbicide compounds. Concentrations of pesticides and herbicides were not reported above the laboratory detection limits in the samples.

Dioxins and Furans: Groundwater samples were collected from two permanent monitoring wells along the Saginaw River perimeter for analysis of dioxins/furans. No generic GSI, GCC, or WSSL values for dioxins/furans were exceeded in these samples.

Inorganics: Samples from the permanent monitoring wells were analyzed for unfiltered and filtered (dissolved) inorganics and total cyanide. As provided by MDEQ Operational Memorandum #18 (MDEQ, 2000), site-specific background values for copper, manganese, and zinc were substituted for the GSI values when the background values were higher. Dissolved inorganics detected above the higher of the generic GSI or site-specific background values during at least one sampling event were arsenic, copper, manganese, and thallium. The generic GSI criteria for barium, beryllium, cadmium, chromium, lead, nickel, and selenium were not exceeded in the monitoring wells. Only one unfiltered sample exceeded the generic GSI value for cyanide; however, during subsequent sampling, cyanide was not detected in the filtered or unfiltered samples. No generic GCC values were exceeded in the samples collected along the Saginaw River perimeter.

Copper was detected slightly above GSI criteria at MW-108S4 in a groundwater sample collected in 1995 during the initial sampling event. Two samples collected in 1996 and 2000 were non-detect for copper.

Thallium was detected above the GSI criteria at four river perimeter wells during the fifth sampling event in May 2000. The data were qualified, indicating that the reported concentrations were between the instrument detection limit and the required reporting limit. In addition, all of the detected concentrations were approximately the same value. Thallium had not been detected in wells along the river boundary, nor had it been detected above criteria during any previous sampling events at any location on the site. Thus, it is unlikely that these detections are significant.

Manganese was detected above GSI criteria at two monitoring well locations, and arsenic was detected above GSI criteria at one monitoring well location (Table 4-1). Manganese was detected at a concentration exceeding the GSI criteria at MW-149WT during the sampling event of June 1996. However, during a subsequent sampling event in May 2000, manganese was detected at a concentration significantly below the GSI criteria. Manganese was detected at MW-111WT at concentrations above GSI criteria during two of four sampling events. Arsenic was also detected at MW-149WT above the GSI criteria during the June 1996 event, but below the criteria in the subsequent event. To address the detection of thallium, arsenic, and manganese in groundwater monitoring wells adjacent to the Saginaw River, additional groundwater sampling will be conducted as described in Section 4.3.

4.3 Groundwater Monitoring Plan

Despite the extensive amount of groundwater monitoring data available for the river perimeter wells as well as the planned Fall 2003 sampling event discussed in Subsection 2.4, a groundwater monitoring program will be developed and implemented as part of the RAP, to provide additional data for PCBs, arsenic, manganese, and thallium.

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To:	Michigan Department of Environmental Quality	Fax #:	989-684-9799
Date:	September 19, 2003	Pages:	17, including this page
From:	Lisa Coffey	cc:	
Subject:	General Motors Corporation Saginaw Malleable Iron Notice of Migration		
Project#	644.34		

COMMENTS:

Confidentiality Notice



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**Worldwide Facilities Group
Remediation Team**

Transmitted Via FedEx and Facsimile

September 18, 2003

City of Saginaw
1315 S. Washington Ave.
Saginaw, MI 48602

Re: General Motors Corporation Saginaw Malleable Iron Plant Property, Saginaw, Michigan
Notice of Migration

Dear Sirs:

The purpose of this letter is to provide you notice of the results of environmental investigations completed at the General Motors Corporation Saginaw Malleable Iron Plant Property, located immediately south of the City of Saginaw right of way for Center Street. in Saginaw, Michigan (Figure 1). This notice is being made in accordance with Michigan Department of Environmental Quality (MDEQ) requirements.

Groundwater data collected at monitoring wells located on or upgradient of your property (Figures 2 and 3) indicate that concentrations of benzo(a)anthracene, benzo(b)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, indeno(1,2,3-cd)pyrene, aluminum, barium, iron, magnesium, nickel, sodium, and vanadium have been detected at concentrations above MDEQ Generic Residential Drinking Water Criteria. The analytical data are shown in Tables 1 through 4. Note that the data were also compared to the other relevant Generic MDEQ Residential Criteria and were found not to exceed those values. Also please note that this is the location of the Former Queen Street Dump, and that the presence of these constituents is not believed to be related to any General Motors activities at the Saginaw Malleable Iron Plant property.

We are committed to protecting the health and safety of our neighbors. If you have any questions regarding the enclosed data, please call me at 248-680-5219.

Sincerely,

Ms. Cheryl R. Hiatt
Senior Environmental Engineer
General Motors Corporation

cc: Mr. Edward Peterson, GM
Anthony Thrubis, GM

Bcc: Lisa Coffey

TABLE 1

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

VOLATILE ORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-102WT 7/25/95 FS	MW-102S1 7/25/95 FS	MW-103WT 7/12/95 FS	MW-103WT 6/4/96 FS	MW-103S1 7/12/95 FS	MW-103S2 7/12/95 FS	MW-104WT 7/12/95 FS	MW-104S1 7/12/95 FS	MW-104S2 7/12/95 FS	MW-105WT 7/12/95 FS
1,1,1-Trichloroethane	2.0E+2 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	8.50E+00	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	8.8E+2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7.0E+0 {A,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5.0E+0 {A,I}	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dichloroethene, Total	7.0E+1 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5.0E+0 {A,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	1.3E+4 {I}	50 U	50 U	50 UJ	50 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
2-Hexanone	1.00E+03	50 U	R	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone	1.8E+3 {I}	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	7.3E+2 {I}	50 U	50 U	50 UJ	100 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
Benzene	5.0E+0 {A,I}	1.0 U	1.0 U	3.1	2.8 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0E+1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	8.0E+2 {I,R}	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0E+2 {A,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	4.3E+2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	2.6E+2 {I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	7.0E+1 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	2.10E+01	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	7.4E+1 {E,I}	1.0 U	1.0 U	0.60 J	0.42 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0E+2 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	7.9E+2 {E,I}	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0E+2 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	2.10E+01	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total	2.8E+2 {E,I}	2.5 U	3.0 U	4.7	3.1	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

See Generic Notes.

TABLE 1

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

VOLATILE ORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-105S1 7/12/95 FS	MW-105S2 7/12/95 FS	MW-145WT 7/28/95 FS	MW-146WT 7/28/95 FS	TW-203WT 2/3/95 FS	TW-203S1 5/23/95 FS	TW-203S2 5/24/95 FS	TW-205WT 2/6/95 FS	TW-205S1 2/7/95 FS	TW-205S2 2/7/95 FS
1,1,1-Trichloroethane	2.0E+2 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	8.50E+00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	8.8E+2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7.0E+0 {A,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5.0E+0 {A,I}	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene, Total	7.0E+1 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5.0E+0 {A,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	1.3E+4 {I}	50 UJ	50 UJ	50 U	50 U	50 U	50 UJ	50 UJ	50 U	50 U	50 U
2-Hexanone	1.00E+03	50 U	50 U	50 U	R	R	50 U	50 U	R	R	R
4-Methyl-2-pentanone	1.8E+3 {I}	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	7.3E+2 {I}	50 UJ	50 UJ	50 U	50 U	50 UJ	50 U	50 U	50 UJ	50 UJ	50 UJ
Benzene	5.0E+0 {A,I}	1.0 U	1.0 U	1.9	2.4	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	1.0E+1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	8.0E+2 {I,R}	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0E+2 {A,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	4.3E+2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0E+2 {A,W}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
Chloromethane	2.6E+2 {I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	7.0E+1 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	2.10E+01	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	7.4E+1 {E,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0E+2 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	7.9E+2 {E,I}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0E+2 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	2.10E+01	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2.0E+0 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total	2.8E+2 {E,I}	3.0 U	3.0 U	3.0 U	1.7 J	3.0 U	3.0 UJ	3.0 UJ	3.0 U	3.0 U	3.0 U

See Generic Notes.

TABLE 2

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SEMIVOLATILE ORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-102WT 7/25/95 FS	MW-102S1 7/25/95 FS	MW-103WT 7/12/95 FS	MW-103WT 6/4/96 FS	MW-103S1 7/12/95 FS	MW-103S1 6/4/96 FS	MW-103S1 5/18/00 FS	MW-103S2 7/12/95 FS	MW-104WT 7/12/95 FS	MW-104S1 7/12/95 FS	MW-104S2 7/12/95 FS	MW-105WT 7/12/95 FS
1,2,4-Trichlorobenzene	7.0E+1 {A}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	6.0E+2 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	6.60E+00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	7.5E+1 {A}	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-oxybis(dichloropropane)	--	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	7.30E+02	50 U	50 U	50 U	--	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2,4,6-Trichlorophenol	1.20E+02	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	7.30E+01	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	3.7E+2	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	--	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	7.70E+00	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	--	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	1.80E+03	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	4.5E+1	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	2.6E+2	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	3.7E+2 {J}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	--	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Nitrophenol	2.00E+01	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	1.10E+00	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	--	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	2.0E+1 {M}	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl phenyl ether	--	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	1.50E+02	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	--	20 U	20 U	20 U	--	20 U	20 U	10 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenyl phenyl ether	--	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	3.7E+2 {J}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	--	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Nitrophenol	--	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	1.3E+3	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.20E+01	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	4.3E+1 {S}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	2.1E+0 {Q}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0E+0 {A,Q}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0E+0 {M}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	--	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	2.0E+0 {I}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	6.0E+0 {A}	5.0 U	5.0 U	0.60 J	--	6	5.0 U	5.0 U	5.0 U	0.80 J	5.0 U	0.80 J	5.0 U
Butyl benzyl phthalate	1.2E+3	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

See Generic Notes.

TABLE 2

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SEMIVOLATILE ORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-102WT 7/25/95 FS	MW-102S1 7/25/95 FS	MW-103WT 7/12/95 FS	MW-103WT 6/4/96 FS	MW-103S1 7/12/95 FS	MW-103S1 6/4/96 FS	MW-103S1 5/18/00 FS	MW-103S2 7/12/95 FS	MW-104WT 7/12/95 FS	MW-104S1 7/12/95 FS	MW-104S2 7/12/95 FS	MW-105WT 7/12/95 FS
Carbazole	8.5E+1	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	5.0E+0 {M,Q}	5.0 U	5.0 U	5.0 UJ	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ
Di-n-butyl phthalate	8.8E+2	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octyl phthalate	1.3E+2	5.0 U	5.0 U	5.0 UJ	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 UJ	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	ID	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethyl phthalate	5.5E+3	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	0.50 J	5.0 U	5.0 U	5.0 U
Dimethyl phthalate	7.30E+04	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	2.1E+2 {S}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	8.8E+2	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	1.0E+0 {A}	5.0 U	5.0 U	5.0 UJ	--	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Hexachlorobutadiene	1.50E+01	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0E+1 {A}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	7.30E+00	5.0 U	5.0 U	5.0 U	--	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 UJ	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	7.7E+2	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0E+0 {M}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	2.70E+02	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	5.2E+2	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	3.4E+0 {I}	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	1.0E+0 {A}	25 U	25 U	20 U	--	20 U	25 U	1.0 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	5.2E+1	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	4.4E+3	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	0.60 J	5.0 U	2.4 J	1.1 J	5.0 U
Pyrene	1.4E+2 {S}	5.0 U	5.0 U	5.0 UJ	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ

See Generic Notes.

TABLE 2

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SEMIVOLATILE ORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-105S1 7/12/95 FS	MW-105S2 7/12/95 FS	MW-145WT 7/28/95 FS	MW-145WT 6/4/96 FS	MW-146WT 7/28/95 FS	MW-146WT 6/12/96 FS	TW-203WT 2/3/95 FS	TW-203S1 5/23/95 FS	TW-203S2 5/24/95 FS	TW-205WT 2/6/95 FS	TW-205S1 2/7/95 FS	TW-205S2 2/7/95 FS
1,2,4-Trichlorobenzene	7.0E+1 {A}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	6.0E+2 {A}	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	6.60E+00	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	7.5E+1 {A}	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-oxybis(dichloropropane)	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	7.30E+02	50 U	50 U	50 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U
2,4,6-Trichlorophenol	1.20E+02	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	7.30E+01	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	3.7E+2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	--	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	7.70E+00	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	1.80E+03	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	4.5E+1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	2.6E+2	5.0 U	5.0 U	5.0 U	5.0 U	0.91 J	5.0 U	1.3 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	3.7E+2 {J}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	--	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
2-Nitrophenol	2.00E+01	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	1.10E+00	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	--	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	2.0E+1 {M}	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl phenyl ether	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	1.50E+02	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	--	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenyl phenyl ether	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	3.7E+2 {J}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	--	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
4-Nitrophenol	--	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	1.3E+3	5.0 U	5.0 U	5.0 U	5.0 U	0.63 J	5.0 U	1.5 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.20E+01	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	4.3E+1 {S}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	2.1E+0 {Q}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.3 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0E+0 {A,Q}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.7 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.9 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0E+0 {M}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.1 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.9 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	2.0E+0 {I}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	6.0E+0 {A}	1.2 J	5.0 U	0.81 J	5.0 U	4.4 J	5.0 U	10 U	5.0 U	5.0 U	18	12	1.9 J
Butyl benzyl phthalate	1.2E+3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

See Generic Notes.

TABLE 2

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SEMIVOLATILE ORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-105S1 7/12/95 FS	MW-105S2 7/12/95 FS	MW-145WT 7/28/95 FS	MW-145WT 6/4/96 FS	MW-146WT 7/28/95 FS	MW-146WT 6/12/96 FS	TW-203WT 2/3/95 FS	TW-203S1 5/23/95 FS	TW-203S2 5/24/95 FS	TW-205WT 2/6/95 FS	TW-205S1 2/7/95 FS	TW-205S2 2/7/95 FS
Carbazole	8.5E+1	10 U	10 U	10 U	10 U	10 U	10 U	1.6 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	5.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	7.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butyl phthalate	8.8E+2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	0.91 J
Di-n-octyl phthalate	1.3E+2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	ID	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.7 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethyl phthalate	5.5E+3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethyl phthalate	7.30E+04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	2.1E+2 {S}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	12	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	8.8E+2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	1.0E+0 {A}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	1.50E+01	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0E+1 {A}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	7.30E+00	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	7.7E+2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0E+0 {M}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	2.70E+02	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	5.2E+2	5.0 U	5.0 U	5.0 U	5.0 U	4.3 J	3.9 J	4.3 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	3.4E+0 {I}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	1.0E+0 {A}	20 U	25 U	25 U	25 U	25 U	25 U	40 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	5.2E+1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	8.6 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	4.4E+3	0.60 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	0.76 J
Pyrene	1.4E+2 {S}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.4 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

See Generic Notes.

TABLE 3

**GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN**

POLYCHLORINATED BIPHENYL ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-102WT 7/25/95 FS	MW-102S1 7/25/95 FS	MW-103WT 7/12/95 FS	MW-103S1 7/12/95 FS	MW-103S2 7/12/95 FS	MW-104WT 7/12/95 FS	MW-104S1 7/12/95 FS	MW-104S2 7/12/95 FS	MW-105WT 7/12/95 FS	MW-105S1 7/12/95 FS
PCBs, Filtered											
PCB-1016	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1221	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1232	5.0E-1 {A,J,T}	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
PCB-1242	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1248	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1254	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1260	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Aroclors	5.0E-1 {A,J,T}	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs, Unfiltered											
PCB-1016	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1221	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1232	5.0E-1 {A,J,T}	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
PCB-1242	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1248	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1254	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1260	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Aroclors	5.0E-1 {A,J,T}	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See Generic Notes.

TABLE 3

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

POLYCHLORINATED BIPHENYL ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-105S2 7/12/95 FS	MW-145WT 7/28/95 FS	MW-146WT 7/28/95 FS	TW-203WT 2/3/95 FS	TW-203S1 5/23/95 FS	TW-203S2 5/24/95 FS	TW-205WT 2/6/95 FS	TW-205S1 2/7/95 FS	TW-205S2 2/7/95 FS
PCBs, Filtered										
PCB-1016	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1221	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1232	5.0E-1 {A,J,T}	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
PCB-1242	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1248	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1254	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1260	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Aroclors	5.0E-1 {A,J,T}	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs, Unfiltered										
PCB-1016	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1221	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1232	5.0E-1 {A,J,T}	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
PCB-1242	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1248	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1254	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PCB-1260	5.0E-1 {A,J,T}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Aroclors	5.0E-1 {A,J,T}	ND	ND	ND	ND	ND	ND	ND	ND	ND

See Generic Notes.

TABLE 4

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

INORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-102WT 7/25/95 FS	MW-102WT 6/3/96 FS	MW-102S1 7/25/95 FS	MW-102S1 6/3/96 FS	MW-103WT 7/12/95 FS	MW-103WT 6/4/96 FS	MW-103S1 7/12/95 FS	MW-103S1 6/4/96 FS	MW-103S2 7/12/95 FS	MW-103S2 6/4/96 FS
Inorganics, Filtered											
Aluminum	2.4E+2 {B,V}	100 U	182 U	100 U	100 U	100 U	100 U	100 U	101	169	206
Antimony	6.0E+0 {A}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	5.0 U	--	5.0 U	--
Arsenic	5.0E+1 {A}	5.3	5.3	1	5.0 U	2.5	--	2.9	--	2.8	--
Barium	2.0E+3 {A,B}	409	449	200 U	200 U	1,030	914	365	326	657	616
Beryllium	4.0E+0 {A}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	5.0 U	--	5.0 U	--
Cadmium	5.0E+0 {A,B}	0.20 UJ	0.50 U	0.20 UJ	0.50 UJ	0.20 U	--	0.20 U	--	0.20 U	--
Calcium	--	150,000	165,000	204,000	217,000	20,400	--	206,000	--	790,000	--
Chromium	1.0E+2 {A,B,H}	50 U	50 U	50 U	50 U	50 U	--	50 U	--	50 U	--
Cobalt	4.00E+01	50 U	50 U	50 U	50 U	50 U	--	50 U	--	50 U	--
Copper	1.0E+3 {B,E}	25 U	25 U	25 U	25 U	25 U	--	25 U	--	27	--
Cyanide, Total	2.0E+2 {A,P,R}	--	5.0 U	--	5.0 U	--	--	--	--	--	--
Iron	1.3E+4 {B,E}	25,900	27,700 J	843	2,960 J	1,160	6,770 J	18,600	16,700 J	21,300	21,200 J
Lead	6.0E+0 {B,L}	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	--	3.0 U	--	3.0 U	--
Magnesium	4.0E+5 {B}	71,100	75,200	73,900	81,500	30,900	--	55,900	--	258,000	--
Manganese	2.1E+3 {B,E}	382	354	149	179	86	328	627	614	1,060	1,010
Mercury	2.0E+0 {A,B,Z}	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	0.20 U	--	0.20 U	--
Nickel	1.0E+2 {A,B}	50 U	50 U	50 U	50 U	50 U	--	50 U	--	50 U	--
Potassium	--	11,400	9,600	15,500	17,400	59,300	--	5,000 U	--	27,800	--
Selenium	5.0E+1 {A,B}	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	5.0 U	--	5.0 U	--
Silver	3.4E+1 {B}	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	--	0.50 U	--	0.50 U	--
Sodium	1.20E+05	54,700	44,300	106,000	122,000	419,000	386,000	561,000	504,000	4,140,000	3,970,000
Thallium	2.0E+0 {A,B}	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	--	2.0 UJ	--	8.0 UJ*	--
Vanadium	4.50E+00	20 U	20 U	20 U	20 U	20 U	--	20 U	--	56	--
Zinc	2.0E+4 {B}	20 U	20 U	56	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Inorganics, Unfiltered											
Cyanide, Total	2.0E+2 {A,P,R}	5.0 U	--	5.0 U	--	8	--	5.0 U	--	6.7	--

See Generic Notes.

TABLE 4

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

INORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-103S2 6/4/96 DUP	MW-104WT 7/12/95 FS	MW-104WT 6/4/96 FS	MW-104S1 7/12/95 FS	MW-104S1 6/4/96 FS	MW-104S2 7/12/95 FS	MW-104S2 6/5/96 FS	MW-105WT 7/12/95 FS	MW-105S1 7/12/95 FS	MW-105S2 7/12/95 FS
Inorganics, Filtered											
Aluminum	2.4E+2 {B,V}	100 U	100 U	137	100 U	100 U	192	320	100 U	100 U	100 U
Antimony	6.0E+0 {A}	--	5.0 U	--	5.0 U	--	5.0 U	--	5.0 U	5.0 U	5.0 U
Arsenic	5.0E+1 {A}	--	5.1	--	12	--	5.4	--	2.3	1.2	1.0 UJ
Barium	2.0E+3 {A,B}	698	2,290	1,440	245	326	688	663	200 U	361	650
Beryllium	4.0E+0 {A}	--	5.0 U	--	5.0 U	--	5.0 U	--	5.0 U	5.0 U	5.0 U
Cadmium	5.0E+0 {A,B}	--	0.20 U	--	0.20 U	--	0.20 UJ	--	0.20 U	0.40 U	0.20 U
Calcium	--	--	178,000	--	148,000	--	763,000	--	91,900	132,000	365,000
Chromium	1.0E+2 {A,B,H}	--	50 U	--	50 U	--	50 U	--	50 U	50 U	50 U
Cobalt	4.00E+01	--	50 U	--	50 U	--	50 U	--	50 U	50 U	50 U
Copper	1.0E+3 {B,E}	--	25 U	--	25 U	--	27	--	25 U	25 U	25 U
Cyanide, Total	2.0E+2 {A,P,R}	--	--	--	--	--	--	--	--	--	--
Iron	1.3E+4 {B,E}	24,500	27,600	20,700 J	21,800	31,000	20,400	21,600	2,400	8,640	16,400
Lead	6.0E+0 {B,L}	--	3.0 U	--	3.0 U	--	3.0 U	--	3.0 U	3.0 U	3.0 U
Magnesium	4.0E+5 {B}	--	95,000	--	41,700	--	251,000	--	13,000	45,900	117,000
Manganese	2.1E+3 {B,E}	1,180	631	694	515	631	946	968	737	440	633
Mercury	2.0E+0 {A,B,Z}	--	0.20 U	--	0.20 U	--	0.20 U	--	0.20 U	0.20 U	0.20 U
Nickel	1.0E+2 {A,B}	--	50 U	--	50 U	--	50 U	--	50 U	50 U	50 U
Potassium	--	--	47,400	--	5,000 U	--	22,800	--	6,790	5,080	11,600
Selenium	5.0E+1 {A,B}	--	5.0 U	--	5.0 U	--	5.0 U	--	5.0 U	5.0 U	5.0 U
Silver	3.4E+1 {B}	--	0.50 U	--	0.50 U	--	0.50 U	--	0.50 U	0.50 U	0.50 U
Sodium	1.20E+05	4,660,000	1,630,000	2,000,000	301,000	355,000	4,170,000	3,910,000	41,800	381,000	1,430,000
Thallium	2.0E+0 {A,B}	--	4.0 UJ*	--	2.0 UJ	--	8.0 UJ*	--	2.0 UJ	2.0 UJ	4.0 UJ*
Vanadium	4.50E+00	--	20 U	--	20 U	--	54	--	20 U	20 U	27
Zinc	2.0E+4 {B}	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Inorganics, Unfiltered											
Cyanide, Total	2.0E+2 {A,P,R}	--	13	--	5.0 U	--	5.0 U	--	5.0 U	5.0 U	5.0 U

See Generic Notes.

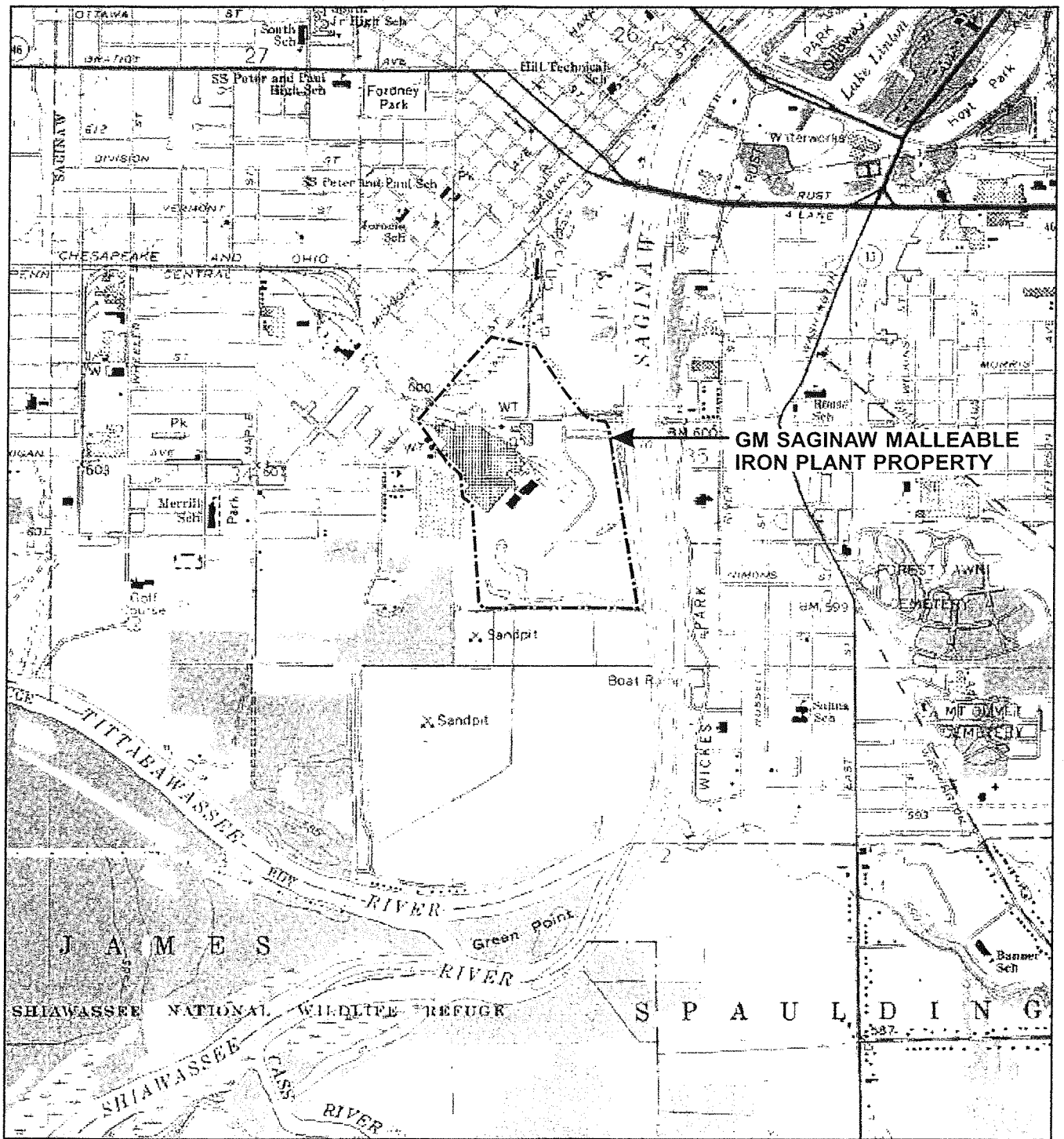
TABLE 4

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

INORGANIC ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO CITY OF SAGINAW PROPERTY

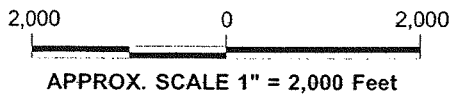
Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	MW-145WT 7/28/95 FS	MW-145WT 6/4/96 FS	MW-146WT 7/28/95 FS	TW-203WT 2/3/95 FS	TW-203S1 5/23/95 FS	TW-203S2 5/24/95 FS	TW-205WT 2/6/95 FS	TW-205S1 2/7/95 FS	TW-205S2 2/7/95 FS
Inorganics, Filtered										
Aluminum	2.4E+2 {B,V}	100	100 U	100 U	100 U	143	745	144	100 U	208
Antimony	6.0E+0 {A}	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Arsenic	5.0E+1 {A}	3.4	--	6.9	1.4 J	1.0 U	15	4.9 J	4.7	1.7
Barium	2.0E+3 {A,B}	999	865	587	2,430	533	932	200 U	450	905
Beryllium	4.0E+0 {A}	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cadmium	5.0E+0 {A,B}	0.20 UJ	--	0.20 UJ	0.20 U	R	R	0.20 U	0.20 U	0.5
Calcium	--	14,600	--	46,700	68,700	555,000	2,230,000	214,000	238,000	722,000
Chromium	1.0E+2 {A,B,H}	50 U	--	50 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
Cobalt	4.00E+01	50 U	--	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	1.0E+3 {B,E}	25 U	--	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Cyanide, Total	2.0E+2 {A,P,R}	--	--	--	--	--	--	--	--	--
Iron	1.3E+4 {B,E}	642	468 J	2,140	7,030	16,500	49,200	5,320	27,000	17,300
Lead	6.0E+0 {B,L}	3.0 U	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Magnesium	4.0E+5 {B}	46,900	--	68,000	78,700	202,000	708,000	64,400	70,300	220,000
Manganese	2.1E+3 {B,E}	67	68	81	126	1,120	1,410	832	576	1,080
Mercury	2.0E+0 {A,B,Z}	0.20 U	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	1.0E+2 {A,B}	50 U	--	50 U	50 U	50 U	50 U	120	50 U	50 U
Potassium	--	53,800	--	51,400	56,200	23,600	62,100	5,000 U	6,390	22,300
Selenium	5.0E+1 {A,B}	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	3.4E+1 {B}	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Sodium	1.20E+05	272,000	317,000	306,000	53,500	2,560,000	11,200,000	111,000	535,000	3,310,000
Thallium	2.0E+0 {A,B}	2.0 UJ	--	2.0 UJ	2.0 UJ	20 UJ	40 UJ	2.0 UJ	4.0 UJ	8.0 UJ
Vanadium	4.50E+00	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Zinc	2.0E+4 {B}	48	20 U	20 U	645	56	524	1,160	1,680	4,260
Inorganics, Unfiltered										
Cyanide, Total	2.0E+2 {A,P,R}	5.0 U	--	11	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U

See Generic Notes.



NOTES:

1. Base map source: USGS 7.5 Min. Topo. Quad., Saginaw, Mich. (1967, Photorevised 1973).
2. Locations of Green Point Landfill and Drum Remediation Area are approximate.
3. All property boundary lines are approximate.

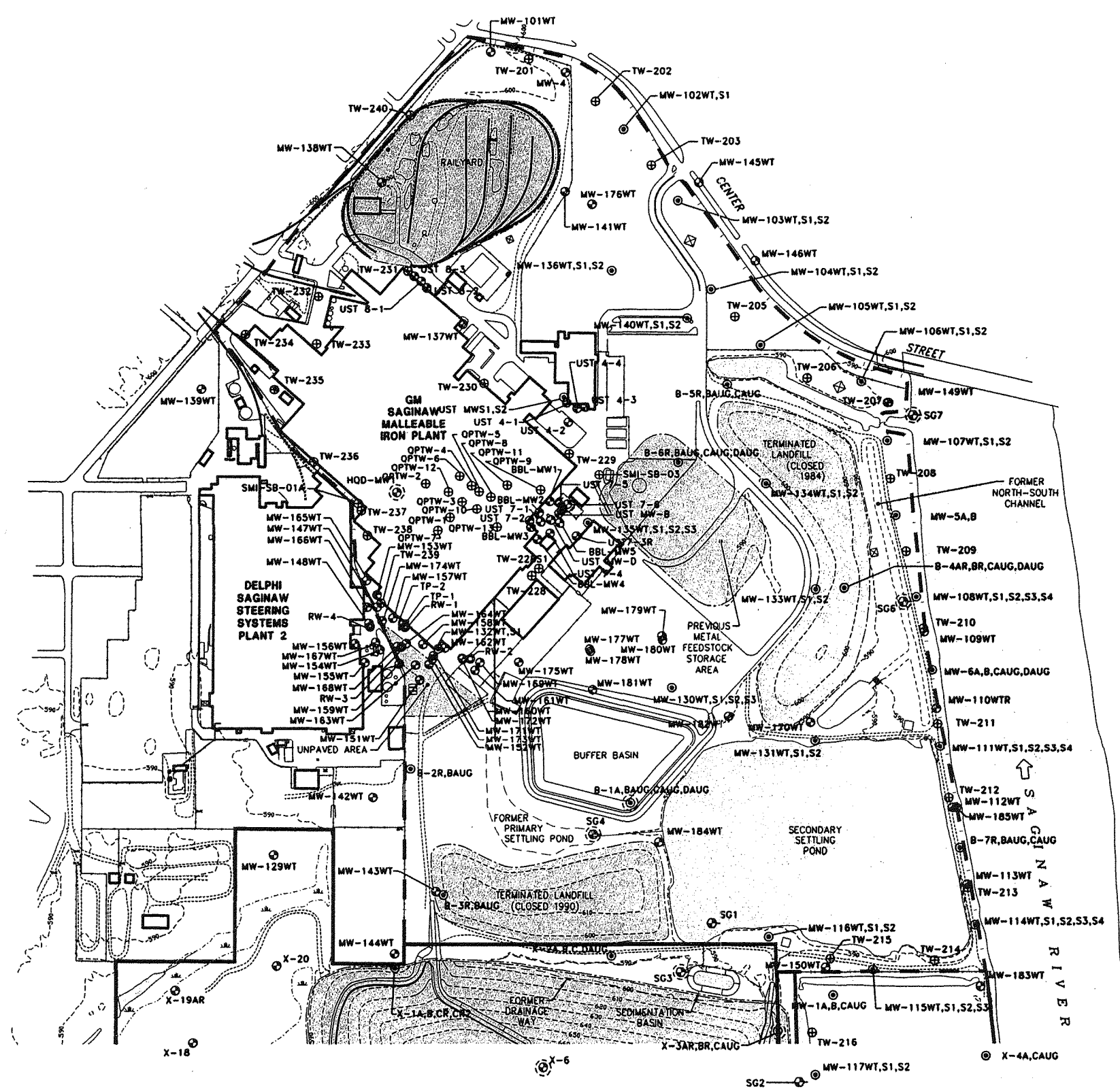


GM SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SITE LOCATION MAP

BBL[®]
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
1

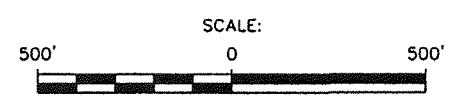


LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 ● MONITORING WELL
- MW-102WT,S1 ● MONITORING WELL CLUSTER
- SG5 ● STAFF GAGE
- TW-203 ● TEMPORARY MONITORING WELL
- TP-2 ● PIEZOMETER
- RW-4 ● RECOVERY WELL
- X-6 ● ABANDONED MONITORING WELL
- SG3 ● ABANDONED STAFF GAGE

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN AND SEDIMENTATION BASIN LOCATION FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY, 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
6. SOIL BORING LOCATIONS FOR SOUTHERN PROPERTY DIGITIZED FROM ECOLOGICAL RISK ASSESSMENT BY EXPONENT, DATED 9/18/00.



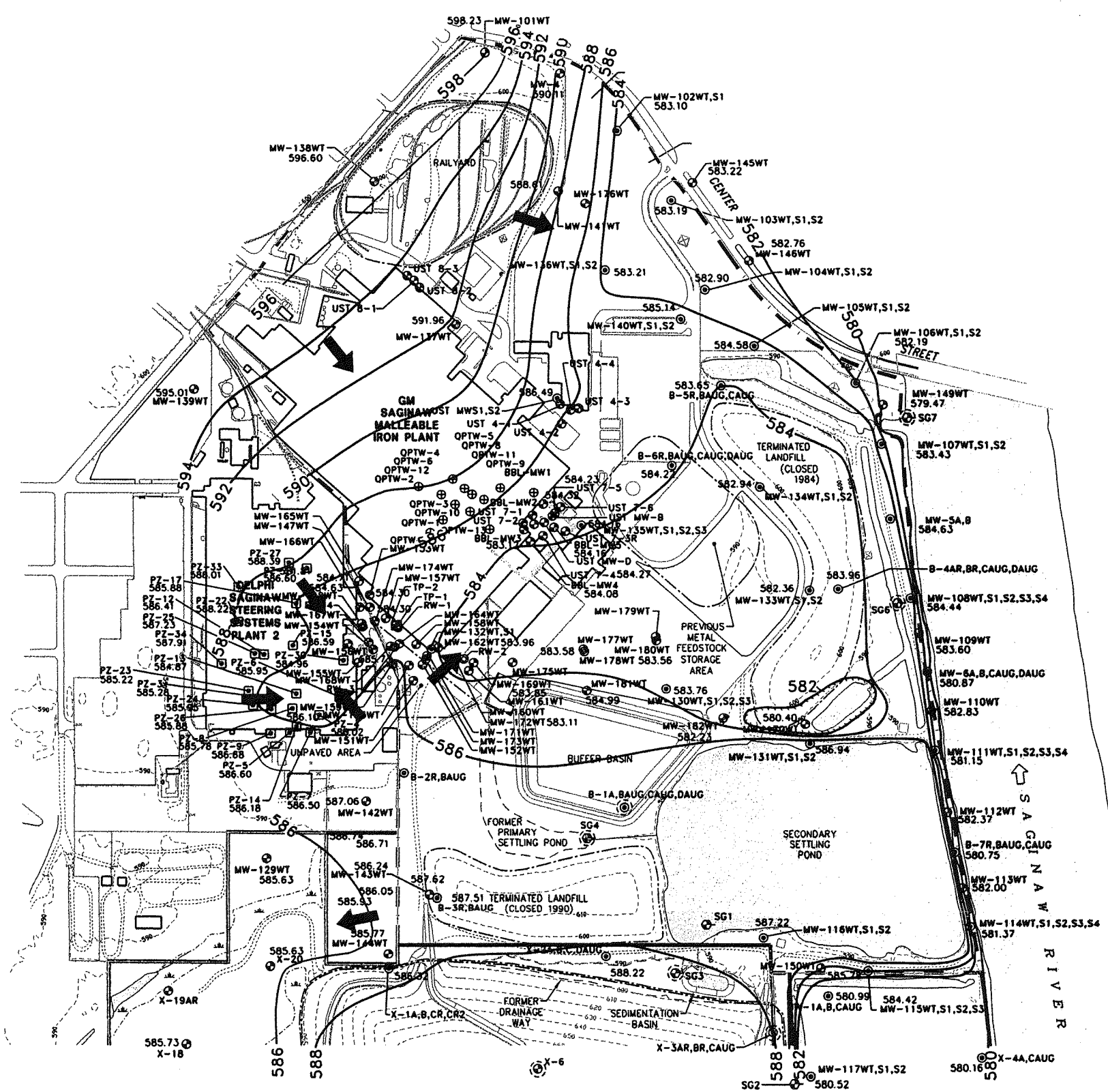
SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

**MONITORING WELL AND
TEMPORARY WELL LOCATION MAP**

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2

X: 93002X02.DWG
L: ON=*, OFF=*REF*
P: PACESET/BP (PLTHALF.CTB)
9/16/03 SYR-54-DMW
27608090/SMI/27608801.DWG



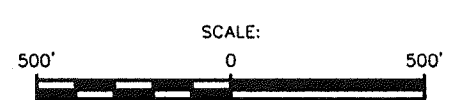
LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 MONITORING WELL
- MW-102WT,S1 MONITORING WELL CLUSTER
- SG5 STAFF GAGE
- TW-203 TEMPORARY MONITORING WELL
- TP-2 PIEZOMETER
- RW-4 RECOVERY WELL
- X-6 ABANDONED MONITORING WELL
- SG3 ABANDONED STAFF GAGE

- 582 GROUNDWATER ELEVATION CONTOUR LINE (FEET AMSL), DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN AND SEDIMENTATION BASIN. SEDIMENTATION BASIN LOCATION FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY, 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.



SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

**WATER TABLE ELEVATION
CONTOUR MAP - MAY 16, 2000**

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

L: ON= * OFF= *REF*
 X: 27608XX1.DWG
 P: 27608W01, BTDW01.PCP
 9/16/03 SYR-54-DMW
 27608090/SMI/27608W01.DWG

*** TX REPORT ***

TRANSMISSION OK

TX/RX NO 3639
CONNECTION TEL 19897591447
SUBADDRESS
CONNECTION ID SAGINAW CITY CLE
ST. TIME 09/18 16:23
USAGE T 06'57
PGS. SENT 16
RESULT OK

FAX TRANSMISSION

BBL, Inc.
6723 Towpath Road, Box 66
Syracuse, NY 13214
Phone: 315-446-9120
Fax: 315-446-8053

To:	City of Saginaw	Fax #:	989-759-1447
Date:	September 18, 2003	Pages:	16, including this page
From:	Lisa Coffey	cc:	
Subject:	General Motors Corporation Notice of Migration		
Project#	644.34		

COMMENTS:

Confidentiality Notice

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Tracking number 791005366085
Signed for by R.ROGERS
Ship date Sep 18, 2003
Delivery date/time Sep 19, 2003 9:52 am

Reference number 64434.001-0015764434.001
Delivered to Mailroom
Delivery location SAGINAW MI
Service type Priority Overnight

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Date/time	Status	Location	Comments
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	8:15 am	Arrived at FedEx Destination Location	FREELAND MI
	7:03 am	Left FedEx Ramp	FLINT MI
	6:44 am	Arrived at FedEx Ramp	FLINT MI
	4:42 am	Left FedEx Sort Facility	MEMPHIS TN
Sep 18, 2003	12:25 am	Left FedEx Sort Facility	MEMPHIS TN
	11:20 pm	Arrived at Sort Facility	MEMPHIS TN
	9:46 pm	Left FedEx Ramp	SYRACUSE NY
	8:41 pm	Arrived at FedEx Ramp	SYRACUSE NY
	8:38 pm	Left FedEx Origin Location	NORTH SYRACUSE NY
	5:24 pm	Picked up by FedEx	NORTH SYRACUSE NY

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Worldwide Facilities Group
Remediation Team

Transmitted Via FedEx and Facsimile

September 18, 2003

Delphi Automotive Systems LLC
5725 Delphi Drive
Troy, MI 48098-2815

Re: General Motors Corporation Saginaw Malleable Iron Plant Property, Saginaw, Michigan
Notice of Migration

Dear Sirs:

The purpose of this letter is to provide you notice of the results of environmental investigations completed at the General Motors Corporation Saginaw Malleable Iron Plant Property, located immediately east of your property (Tax ID number 19 2231 00100) in Saginaw, Michigan (Figure 1). This notice is being made in accordance with Michigan Department of Environmental Quality (MDEQ) requirements.

Groundwater data collected at monitoring wells located upgradient of your property (Figures 2 and 3) indicate that concentrations of bis(2-ethylhexyl)phthalate and sodium have been detected at concentrations above MDEQ Generic Residential Drinking Water Criteria. The analytical data are shown in Tables 1 through 4. Note that the data were also compared to the other relevant Generic MDEQ Residential Criteria and were found not to exceed those values.

We are committed to protecting the health and safety of our neighbors. If you have any questions regarding the enclosed data, please call me at 248-680-5219.

Sincerely,

Ms. Cheryl R. Hiatt
Senior Environmental Engineer
General Motors Corporation

cc: Mr. Edward Peterson, GM
Anthony Thrubis, GM

bcc: Lisa Coffey, BBL

TABLE 1a

**GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN**

ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO DELPHI PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	B-2R 7/29/95 FS	B-2R 6/11/96 FS	B-2R 5/23/00 FS	B-2BAUG 7/29/95 FS	MW01-119S1 11/28/01 FS
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	7.70E+01	1.0 U	--	--	--	--
1,1,1-Trichloroethane	2.0E+2 {A}	1.0 U	--	--	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	8.50E+00	1.0 U	--	--	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	--	--	--	1.0 U
1,1,2-Trichloroethane	5.0E+0 {A}	1.0 U	--	--	1.0 U	1.0 U
1,1-Dichloroethane	8.8E+2	1.0 U	--	--	1.0 U	1.0 U
1,1-Dichloroethene	7.0E+0 {A,I}	1.0 U	--	--	1.0 U	1.0 U
1,2,3-Trichloropropane	4.20E+01	1.0 U	--	--	--	--
1,2-Dibromo-3-chloropropane	2.0E-1 {A}	R	--	--	--	2.0 U
1,2-Dibromoethane	1.0E+0 {A,M}	1.0 U	--	--	--	1.0 U
1,2-Dichloroethane	5.0E+0 {A,I}	1.0 U	--	--	1.0 U	1.0 U
1,2-Dichloroethene, Total	7.0E+1 {A}	1.0 U	--	--	1.0 U	--
1,2-Dichloropropane	5.0E+0 {A,I}	1.0 U	--	--	1.0 U	1.0 U
1,4-Dioxane	8.5E+1 {I}	R	--	--	--	--
2-Butanone	1.3E+4 {I}	5.0 UJ	--	--	50 U	10 U
2-Chloro-1,3-butadiene	--	1.0 U	--	--	--	--
2-Hexanone	1.00E+03	5.0 U	--	--	50 U	10 U
3-Chloro-1-propene	--	2.0 U	--	--	--	--
4-Methyl-2-pentanone	1.8E+3 {I}	5.0 U	--	--	50 U	10 U
Acetone	7.3E+2 {I}	10 UJ	--	--	3.9 J	10 U
Acetonitrile	1.40E+02	10 U	--	--	--	--
Acrolein	1.2E+2 {I}	R	--	--	--	--
Acrylonitrile	2.6E+0 {I}	10 U	--	--	--	--
Benzene	5.0E+0 {A,I}	1.0 U	--	--	1.0 U	1.0 U
Bromodichloromethane	1.0E+2 {A,W}	1.0 U	--	--	1.0 U	1.0 U
Bromoform	1.0E+2 {A,W}	1.0 U	--	--	1.0 U	1.0 U
Bromomethane	1.0E+1	1.0 U	--	--	1.0 U	1.0 U
Carbon disulfide	8.0E+2 {I,R}	1.0 U	--	--	50 U	1.0 U
Carbon tetrachloride	5.0E+0 {A}	1.0 U	--	--	1.0 U	1.0 U
Chlorobenzene	1.0E+2 {A,I}	1.0 U	--	--	1.0 U	1.0 U
Chlorodibromomethane	1.0E+2 {A,W}	1.0 U	--	--	1.0 U	1.0 U
Chloroethane	4.3E+2	1.0 U	--	--	1.0 U	1.0 U
Chloroform	1.0E+2 {A,W}	1.0 U	--	--	1.0 U	1.0 U
Chloromethane	2.6E+2 {I}	1.0 U	--	--	1.0 U	1.0 U
cis-1,2-Dichloroethene	7.0E+1 {A}	1.0 U	--	--	1.0 U	0.25 J
cis-1,3-Dichloropropene	2.10E+01	1.0 U	--	--	1.0 U	1.0 U
Dibromomethane	8.00E+01	1.0 U	--	--	--	--
Dichlorodifluoromethane	1.70E+03	1.0 U	--	--	--	1.0 U
Ethylbenzene	7.4E+1 {E,I}	1.0 U	--	--	1.0 U	1.0 U
Iodomethane	--	1.0 U	--	--	--	--
Isobutyl alcohol	2.3E+3 {I}	R	--	--	--	--
Methacrylonitrile	--	1.0 U	--	--	--	--
Methyl methacrylate	--	1.0 U	--	--	--	--
Methyl tert-butyl ether	--	1.0 U	--	--	1.0 U	5.0 U
Methylene chloride	5.0E+0 {A}	R	--	--	--	1.0 U
Propionitrile	--	10 U	--	--	--	--
Styrene	1.0E+2 {A}	1.0 U	--	--	1.0 U	1.0 U
Tetrachloroethene	5.0E+0 {A}	1.0 U	--	--	1.0 U	1.0 U
Toluene	7.9E+2 {E,I}	1.0 U	--	--	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0E+2 {A}	1.0 U	--	--	1.0 U	0.50 U
trans-1,3-Dichloropropene	2.10E+01	1.0 U	--	--	1.0 U	1.0 U
trans-1,4-Dichloro-2-butene	--	R	--	--	--	--
Trichloroethene	5.0E+0 {A}	1.0 U	--	--	1.0 U	1.0 U
Trichlorofluoromethane	2.60E+03	1.0 U	--	--	--	1.0 U
Vinyl acetate	6.4E+2 {I}	2.0 U	--	--	--	--
Vinyl chloride	2.0E+0 {A}	1.0 U	--	--	1.0 U	1.0 U
Xylenes, Total	2.8E+2 {E,I}	1.0 U	--	--	3.0 U	1.0 U
Semivolatile Organic Compounds						
1,2,4,5-Tetrachlorobenzene	1.3E+3 {S}	5.0 U	--	--	--	--
1,2,4-Trichlorobenzene	7.0E+1 {A}	50 U	5.0 U	5.0 U	5.0 U	1.0 U
1,2-Dichlorobenzene	6.0E+2 {A}	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U

See Generic Notes.

TABLE 1a

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO DELPHI PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	B-2R 7/29/95 FS	B-2R 6/11/96 FS	B-2R 5/23/00 FS	B-2BAUG 7/29/95 FS	MW01-119S1 11/28/01 FS
1,3,5-Trinitrobenzene	--	R	--	--	--	--
1,3-Dichlorobenzene	6.60E+00	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,3-Dinitrobenzene	--	5.0 U	--	--	--	--
1,4-Dichlorobenzene	7.5E+1 {A}	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,4-Naphthoquinone	--	50 U	--	--	--	--
1-Naphthylamine	--	10 U	--	--	--	--
2,2'-oxybis(dichloropropane)	--	5.0 U	5.0 U	5.0 U	5.0 U	--
2,3,4,6-Tetrachlorophenol	--	50 U	--	--	--	--
2,4,5-Trichlorophenol	7.30E+02	10 U	50 U	5.0 U	50 U	10 U
2,4,6-Trichlorophenol	1.20E+02	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2,4-Dichlorophenol	7.30E+01	5.0 U	5.0 U	10 U	5.0 U	10 U
2,4-Dimethylphenol	3.7E+2	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2,4-Dinitrophenol	--	20 U	20 U	20 U	20 U	--
2,4-Dinitrotoluene	7.70E+00	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2,6-Dichlorophenol	--	5.0 U	--	--	--	--
2,6-Dinitrotoluene	--	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2-Acetylaminofluorene	--	100 U	--	--	--	--
2-Chloronaphthalene	1.80E+03	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2-Chlorophenol	4.5E+1	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2-Methylnaphthalene	2.6E+2	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2-Methylphenol	3.7E+2 {J}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2-Naphthylamine	--	10 U	--	--	--	--
2-Nitroaniline	--	20 U	20 U	20 U	20 U	10 U
2-Nitrophenol	2.00E+01	5.0 U	5.0 U	5.0 U	5.0 U	10 U
2-Picoline	--	20 U	--	--	--	--
3,3'-Dichlorobenzidine	1.10E+00	20 U	20 U	20 U	20 U	10 U
3,3'-Dimethylbenzidine	--	10 U	--	--	--	--
3-Methylcholanthrene	--	20 U	--	--	--	--
3-Methylphenol	3.7E+2 {J}	5.0 U	--	--	--	--
3-Nitroaniline	--	20 U	20 U	20 U	20 U	10 U
4,6-Dinitro-2-methylphenol	2.0E+1 {M}	20 U	20 U	20 U	20 U	25 U
4-Aminobiphenyl	--	50 U	--	--	--	--
4-Bromophenyl phenyl ether	--	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Chloro-3-methylphenol	1.50E+02	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Chloroaniline	--	10 U	20 U	10 U	20 U	10 U
4-Chlorophenyl phenyl ether	--	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Methylphenol	3.7E+2 {J}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Nitroaniline	--	20 U	20 U	20 U	20 U	10 U
4-Nitrophenol	--	20 U	20 U	20 U	20 U	--
4-Nitroquinoline 1-oxide	--	100 U	--	--	--	--
5-Nitro-o-toluidine	--	20 U	--	--	--	--
7,12-Dimethylbenz(a)anthracene	--	20 U	--	--	--	--
Acenaphthene	1.3E+3	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Acenaphthylene	5.20E+01	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Acetophenone	1.50E+03	10 U	--	--	--	10 U
alpha,alpha-Dimethyl phenethylamine	--	50 U	--	--	--	--
Aniline	5.30E+01	10 U	--	--	--	--
Anthracene	4.3E+1 {S}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Atrazine	--	--	--	--	--	10 U
Benzo(a)anthracene	2.1E+0 {Q}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Benzo(a)pyrene	5.0E+0 {A,Q}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Benzo(b)fluoranthene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Benzo(g,h,i)perylene	5.0E+0 {M}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Benzo(k)fluoranthene	5.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Benzyl alcohol	1.00E+04	10 U	--	--	--	--
bis(2-Chloroethoxy)methane	--	5.0 U	5.0 U	5.0 U	5.0 U	10 U
bis(2-Chloroethyl)ether	2.0E+0 {I}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
bis(2-Chloroisopropyl) ether	--	--	--	--	--	10 U
bis(2-Ethylhexyl)phthalate	6.0E+0 {A}	19 J	5.0 U	5.0 U	5.0 U	10 U
Butyl benzyl phthalate	1.2E+3	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Caprolactam	--	--	--	--	--	10 U
Carbazole	8.5E+1	--	10 U	10 U	10 U	10 U

See Generic Notes.

TABLE 1a

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO DELPHI PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	B-2R 7/29/95 FS	B-2R 6/11/96 FS	B-2R 5/23/00 FS	B-2BAUG 7/29/95 FS	MW01-119S1 11/28/01 FS
Chrysene	5.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Di-n-butyl phthalate	8.8E+2	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Di-n-octyl phthalate	1.3E+2	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Diallate	--	5.0 U	--	--	--	--
Dibenz(a,h)anthracene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Dibenzofuran	ID	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Diethyl phthalate	5.5E+3	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Dimethyl phthalate	7.30E+04	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Diphenylamine	--	5.0 U	--	--	--	--
Ethyl methacrylate	--	1.0 U	--	--	--	--
Ethyl methanesulfonate	--	10 U	--	--	--	--
Fluoranthene	2.1E+2 {S}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Fluorene	8.8E+2	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Hexachlorobenzene	1.0E+0 {A}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Hexachlorobutadiene	1.50E+01	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Hexachlorocyclopentadiene	5.0E+1 {A}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Hexachloroethane	7.30E+00	5.0 U	2.0 U	5.0 U	5.0 U	10 U
Hexachloropropene	--	100 U	--	--	--	--
Indeno(1,2,3-cd)pyrene	2.0E+0 {M,Q}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Isophorone	7.7E+2	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Isopropylbenzene	--	--	--	--	--	1.0 U
Isosafrole, Total	--	20 U	--	--	--	--
Methapyrilene	--	50 U	--	--	--	--
Methyl methanesulfonate	--	10 U	--	--	--	--
N-Nitroso-di-n-propylamine	5.0E+0 {M}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
N-Nitrosodi-n-butylamine	--	10 U	--	--	--	--
N-Nitrosodimethylamine	--	10 U	--	--	--	--
N-Nitrosodimethylamine	--	5.0 U	--	--	--	--
N-Nitrosodiphenylamine	2.70E+02	5.0 U	5.0 U	5.0 U	5.0 U	10 U
N-Nitrosomethylethylamine	--	10 U	--	--	--	--
N-Nitrosomorpholine	--	10 U	--	--	--	--
N-Nitrosopiperidine	--	10 U	--	--	--	--
N-Nitrosopyrrolidine	--	10 U	--	--	--	--
Naphthalene	5.2E+2	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Nitrobenzene	3.4E+0 {I}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
o-Toluidine	--	20 U	--	--	--	--
p-Chlorobenzilate	--	10 U	--	--	--	--
p-Dimethylaminoazobenzene	--	20 U	--	--	--	--
p-Phenylene diamine	--	100 U	--	--	--	--
Pentachlorobenzene	6.10E+00	5.0 U	--	--	--	--
Pentachloroethane	--	10 U	--	--	--	--
Pentachloronitrobenzene	3.2E+1 {S}	5.0 U	--	--	--	--
Pentachlorophenol	1.0E+0 {A}	25 U	25 U	1.0 U	25 U	10 U
Phenacetin	--	20 U	--	--	--	--
Phenanthrene	5.2E+1	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Phenol	4.4E+3	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Pronamide	--	20 U	--	--	--	--
Pyrene	1.4E+2 {S}	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Safrole, Total	--	20 U	--	--	--	--
Tetraethyl Dithiopyrophosphate	--	1.0 U	--	--	--	--
PCBs, Filtered						
Aroclor-1016	5.0E-1 {A,J,T}	0.20 U	--	--	0.23 U	--
Aroclor-1221	5.0E-1 {A,J,T}	0.20 U	--	--	0.23 U	--
Aroclor-1232	5.0E-1 {A,J,T}	0.40 U	--	--	0.46 U	--
Aroclor-1242	5.0E-1 {A,J,T}	0.20 U	--	--	0.23 U	--
Aroclor-1248	5.0E-1 {A,J,T}	0.20 U	--	--	0.23 U	--
Aroclor-1254	5.0E-1 {A,J,T}	0.20 U	--	--	0.23 U	--
Aroclor-1260	5.0E-1 {A,J,T}	0.20 U	--	--	0.23 U	--
Total PCBs	5.0E-1 {A,J,T}	ND	--	--	ND	--
PCBs, Unfiltered						
Aroclor-1016	5.0E-1 {A,J,T}	0.20 U	--	--	0.21 U	--
Aroclor-1221	5.0E-1 {A,J,T}	0.20 U	--	--	0.21 U	--

See Generic Notes.

TABLE 1a

GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO DELPHI PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	B-2R 7/29/95 FS	B-2R 6/11/96 FS	B-2R 5/23/00 FS	B-2BAUG 7/29/95 FS	MW01-119S1 11/28/01 FS
Aroclor-1232	5.0E-1 {A,J,T}	0.40 U	--	--	0.42 U	--
Aroclor-1242	5.0E-1 {A,J,T}	0.20 U	--	--	0.21 U	--
Aroclor-1248	5.0E-1 {A,J,T}	0.20 U	--	--	0.21 U	--
Aroclor-1254	5.0E-1 {A,J,T}	0.20 U	--	--	0.21 U	--
Aroclor-1260	5.0E-1 {A,J,T}	0.20 U	--	--	0.21 U	--
Total PCBs	5.0E-1 {A,J,T}	ND	--	--	ND	--
Dioxin-Furans	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDD	--	--	0.0000027 U	--	--	--
1,2,3,4,6,7,8-HpCDF	--	--	0.0000008 U	--	--	--
1,2,3,4,7,8,9-HpCDF	--	--	0.0000011 U	--	--	--
1,2,3,4,7,8-HxCDD	--	--	0.0000019 U	--	--	--
1,2,3,4,7,8-HxCDF	--	--	0.0000008 U	--	--	--
1,2,3,6,7,8-HxCDD	--	--	0.0000016 U	--	--	--
1,2,3,6,7,8-HxCDF	--	--	0.0000006 U	--	--	--
1,2,3,7,8,9-HxCDD	--	--	0.0000019 U	--	--	--
1,2,3,7,8,9-HxCDF	--	--	0.0000008 U	--	--	--
1,2,3,7,8-PeCDD	--	--	0.0000010 U	--	--	--
1,2,3,7,8-PeCDF	--	--	0.0000014 U	--	--	--
2,3,4,6,7,8-HxCDF	--	--	0.0000026 U	--	--	--
2,3,4,7,8-PeCDF	--	--	0.0000012 U	--	--	--
2,3,7,8-TCDD	--	0.0000033 U	0.0000019 U	--	--	--
2,3,7,8-TCDD TEQ	--	0.0000043	--	--	--	--
2,3,7,8-TCDF	--	--	0.0000012 U	--	--	--
HpCDDs, Total	--	--	0.0000027 U	--	--	--
HpCDFs, Total	--	--	0.0000011 U	--	--	--
HxCDDs, Total	--	0.0000022 U	0.0000019 U	--	--	--
HxCDFs, Total	--	0.0000012 U	0.0000026 U	--	--	--
OCDDs, Total	--	--	0.0000012 U	--	--	--
OCDFs, Total	--	--	0.0000057 U	--	--	--
PeCDDs, Total	--	0.0000096 U	0.0000010 U	--	--	--
PeCDFs, Total	--	0.0000060 U	0.0000014 U	--	--	--
TCDDs, Total	--	0.0000025 U	0.0000019 U	--	--	--
TCDFs, Total	--	0.000006	0.0000012 U	--	--	--
Herbicides	--	--	--	--	--	--
2,4,5-T	--	1.0 UJ	--	--	--	--
2,4,5-TP(Silvex)	--	1.0 UJ	--	--	--	--
2,4-D	--	4.0 UJ	--	--	--	--
Dinoseb	--	0.60 UJ	--	--	--	--
Pesticides	--	--	--	--	--	--
4,4'-DDD	--	0.020 U	--	--	--	--
4,4'-DDE	--	0.020 U	--	--	--	--
4,4'-DDT	--	0.020 UJ	--	--	--	--
Aldrin	--	0.010 U	--	--	--	--
alpha-BHC	--	0.010 U	--	--	--	--
alpha-Chlordane	--	0.020 U	--	--	--	--
beta-BHC	--	0.010 U	--	--	--	--
delta-BHC	--	0.010 U	--	--	--	--
Dieldrin	--	0.020 U	--	--	--	--
Dimethoate	--	1.0 U	--	--	--	--
Disulfoton	--	1.0 U	--	--	--	--
Endosulfan I	--	0.010 U	--	--	--	--
Endosulfan II	--	0.020 U	--	--	--	--
Endosulfan sulfate	--	0.020 U	--	--	--	--
Endrin	--	0.020 UJ	--	--	--	--
Endrin aldehyde	--	0.020 U	--	--	--	--
Famphur	--	1.0 U	--	--	--	--
gamma-BHC (Lindane)	--	0.010 U	--	--	--	--
gamma-Chlordane	--	0.020 U	--	--	--	--
Heptachlor	--	0.010 UJ	--	--	--	--
Heptachlor epoxide	--	0.010 U	--	--	--	--
Isodrin	--	0.10 UJ	--	--	--	--
Kepone	--	1.0 UJ	--	--	--	--

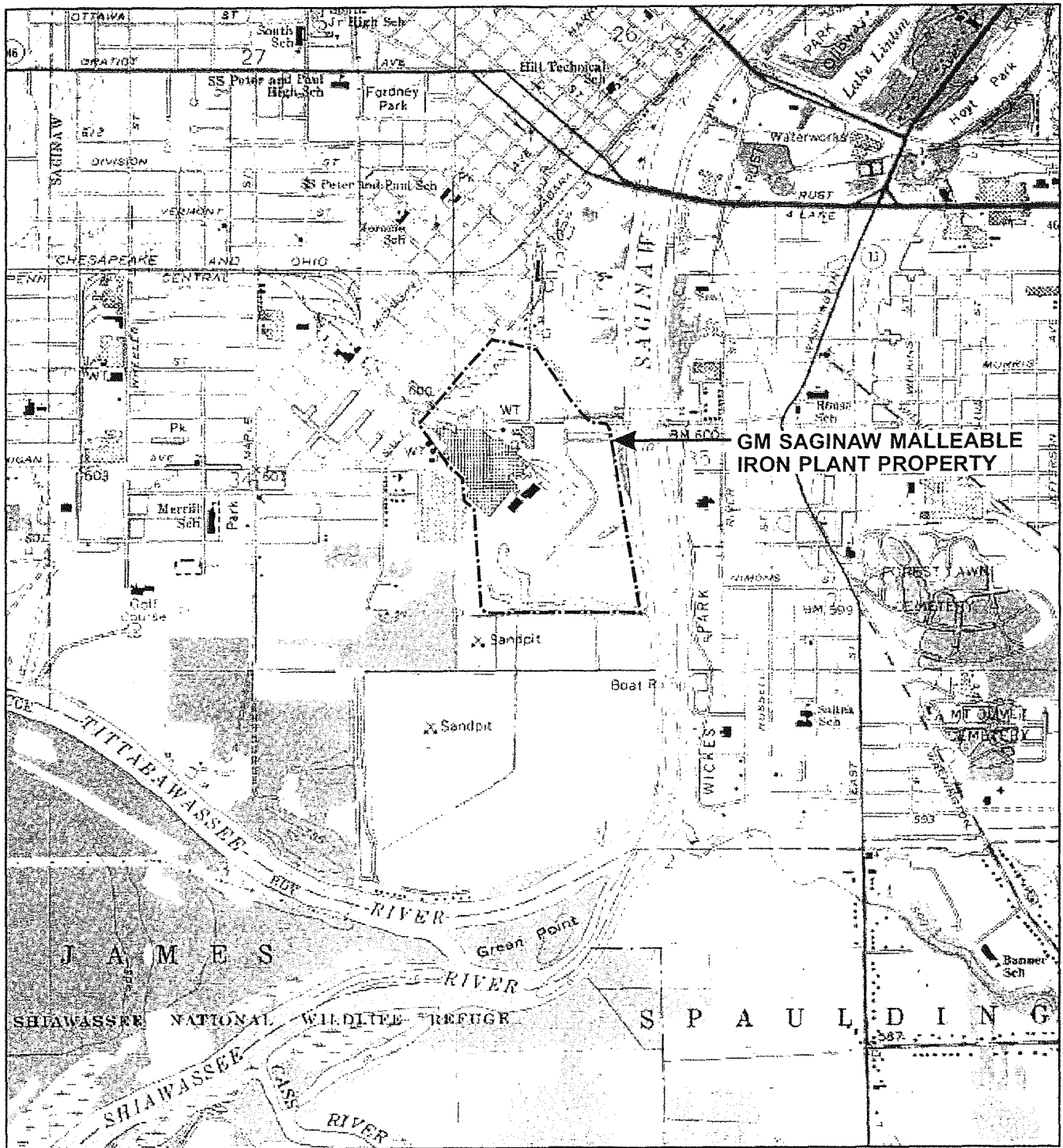
See Generic Notes.

TABLE 1a

**GENERAL MOTORS SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN**

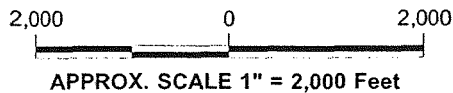
ANALYTICAL DATA IN GROUNDWATER FOR WELLS ADJACENT TO DELPHI PROPERTY

Location ID Date Sampled Sample Type	Generic MDEQ Criteria Values RDW	B-2R 7/29/95 FS	B-2R 6/11/96 FS	B-2R 5/23/00 FS	B-2BAUG 7/29/95 FS	MW01-119S1 11/28/01 FS
Methoxychlor	--	0.10 UJ	--	--	--	--
Methyl parathion	--	1.0 U	--	--	--	--
O,O,O-Triethylphosphorothioate	--	1.0 U	--	--	--	--
Parathion	--	1.0 U	--	--	--	--
Phorate	--	1.0 U	--	--	--	--
Thionazin (Zinophos)	--	1.0 U	--	--	--	--
Toxaphene	--	1.0 U	--	--	--	--
Inorganics, Filtered						
Aluminum	2.4E+2 {B,V}	--	--	--	100 U	--
Antimony	6.0E+0 {A}	5.0 U	--	--	5.0 U	--
Arsenic	5.0E+1 {A}	3.5	--	--	1.2	--
Barium	2.0E+3 {A,B}	584	--	--	200 U	--
Beryllium	4.0E+0 {A}	5.0 U	--	--	5.0 U	--
Cadmium	5.0E+0 {A,B}	0.20 UJ	--	--	0.20 UJ	--
Calcium	--	--	--	--	127,000	--
Chromium	1.0E+2 {A,B,H}	50 U	--	--	50 U	--
Cobalt	4.00E+01	50 U	--	--	50 U	--
Copper	1.0E+3 {B,E}	25 U	--	--	25 U	--
Iron	1.3E+4 {B,E}	--	--	--	1,740	--
Lead	6.0E+0 {B,L}	3.0 U	--	--	3.0 U	--
Magnesium	4.0E+5 {B}	--	--	--	26,900	--
Manganese	2.1E+3 {B,E}	--	--	--	396	--
Mercury	2.0E+0 {A,B,Z}	0.20 U	--	--	0.20 UJ	--
Nickel	1.0E+2 {A,B}	50 U	--	--	50 U	--
Potassium	--	--	--	--	5,000 U	--
Selenium	5.0E+1 {A,B}	5.0 U	--	--	5.0 U	--
Silver	3.4E+1 {B}	0.50 U	--	--	0.50 U	--
Sodium	1.20E+05	--	--	--	433,000	--
Thallium	2.0E+0 {A,B}	2.0 UJ	--	--	2.0 UJ	--
Tin	--	100 U	--	--	--	--
Vanadium	4.50E+00	20 U	--	--	20 U	--
Zinc	2.0E+4 {B}	20 U	--	--	20 U	--
Inorganics, Unfiltered						
Cyanide, Total	2.0E+2 {A,P,R}	7	--	--	5.0 U	--



NOTES:

1. Base map source: USGS 7.5 Min. Topo. Quad., Saginaw, Mich. (1967, Photorevised 1973).
2. Locations of Green Point Landfill and Drum Remediation Area are approximate.
3. All property boundary lines are approximate.

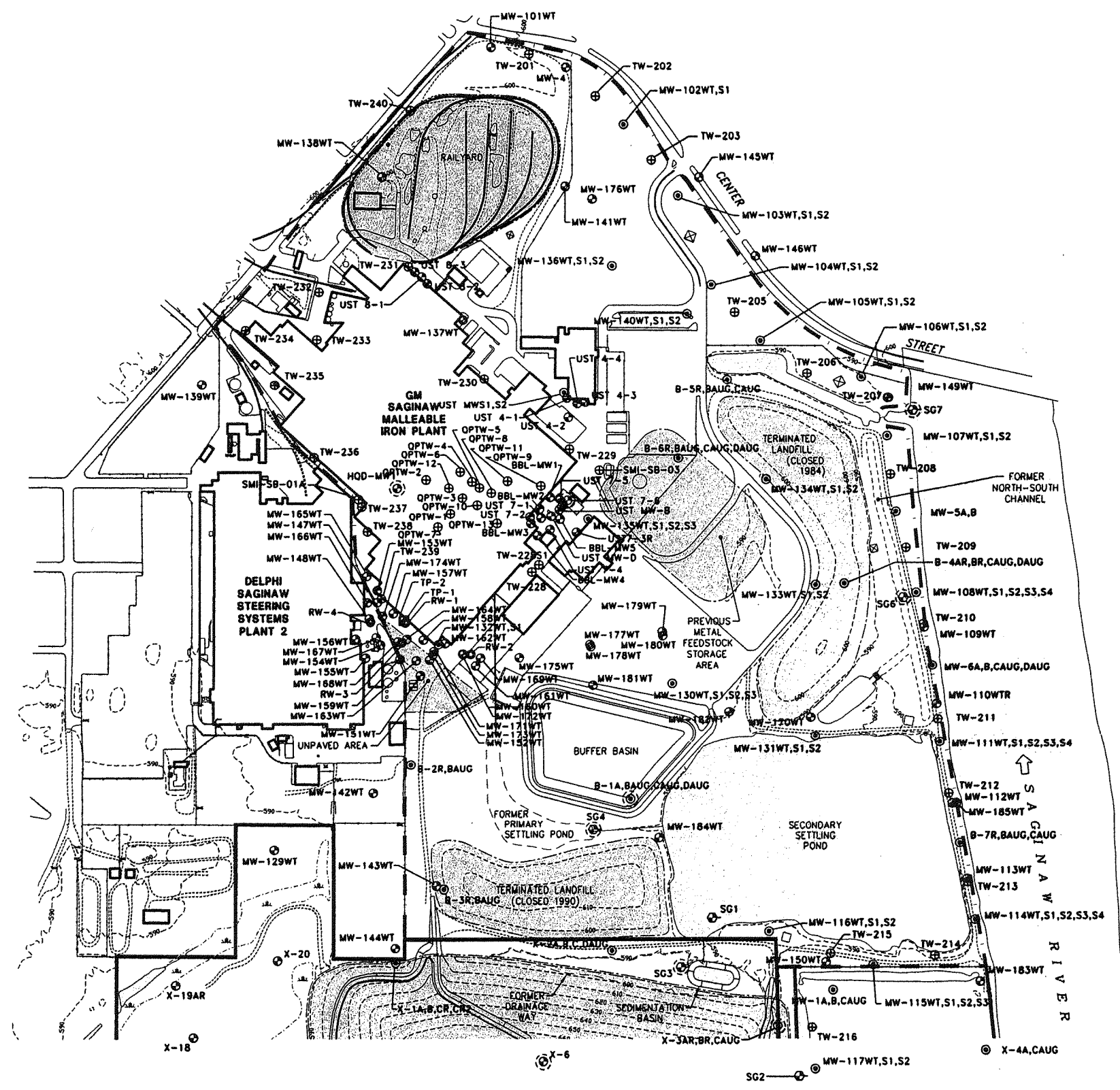


GM SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

SITE LOCATION MAP

BBL[®]
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
1

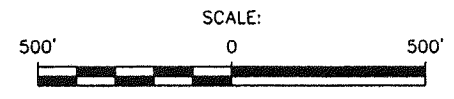


LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- - - - - GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 ● MONITORING WELL
- MW-102WT,S1 ● MONITORING WELL CLUSTER
- SG5 ● STAFF GAGE
- TW-203 ● TEMPORARY MONITORING WELL
- TP-2 □ PIEZOMETER
- RW-4 ● RECOVERY WELL
- X-6 ● ABANDONED MONITORING WELL
- SG3 ● ABANDONED STAFF GAGE

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN AND SEDIMENTATION BASIN. SEDIMENTATION BASIN LOCATION FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY, 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.
6. SOIL BORING LOCATIONS FOR SOUTHERN PROPERTY DIGITIZED FROM ECOLOGICAL RISK ASSESSMENT BY EXPONENT, DATED 9/18/00.

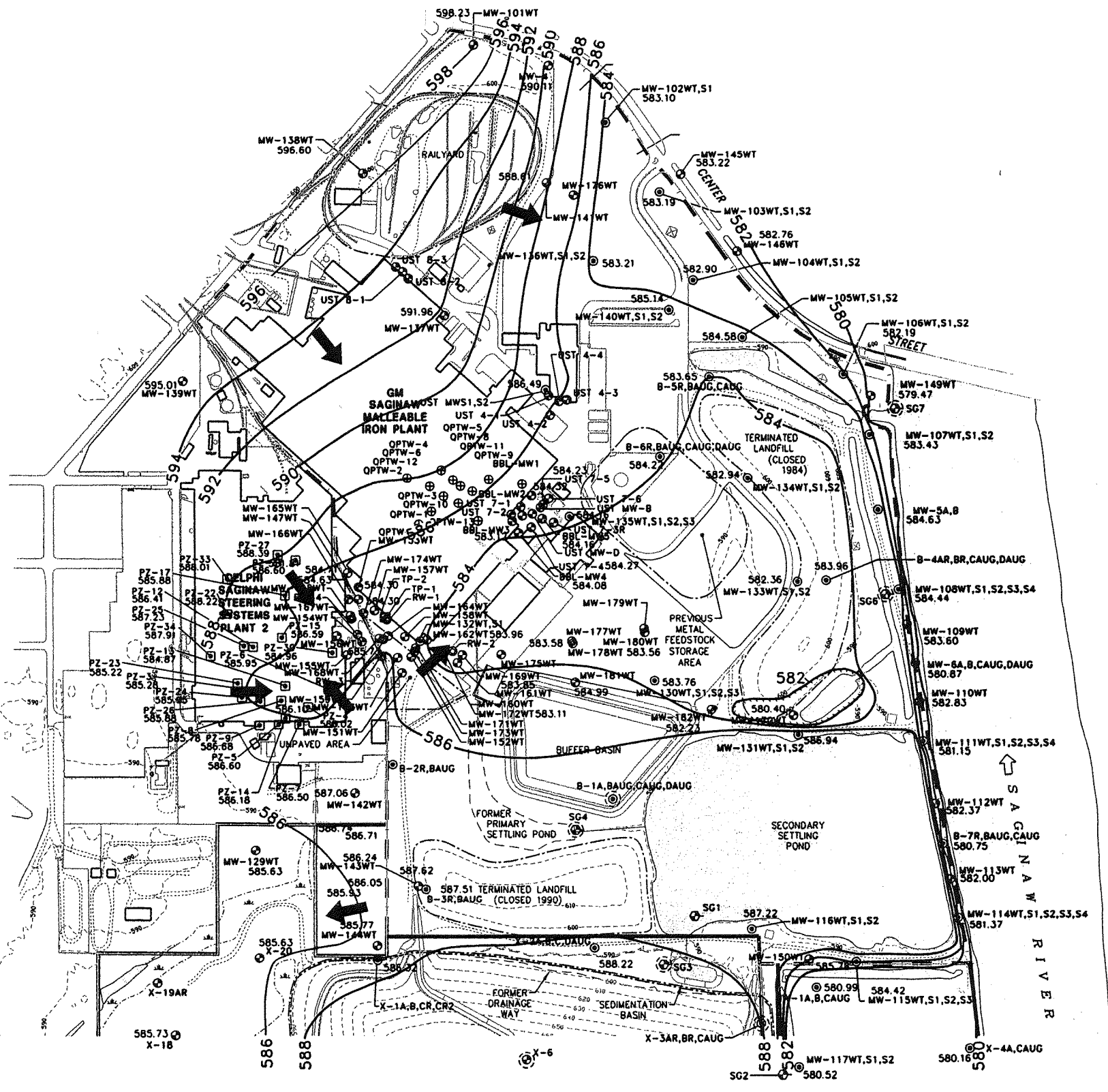


SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

**MONITORING WELL AND
TEMPORARY WELL LOCATION MAP**

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2



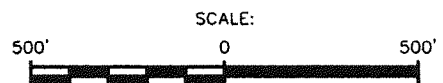
LEGEND

- GM SAGINAW MALLEABLE IRON PLANT PROPERTY LINE (APPROX.)
- REALM, INC. PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- 60- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- (S) SWAMPY AREA
- MW-4 Monitoring Well
- MW-102WT,S1 Monitoring Well Cluster
- SG5 Staff Gage
- TW-203 Temporary Monitoring Well
- TP-2 Piezometer
- RW-4 Recovery Well
- X-6 Abandoned Monitoring Well
- SG3 Abandoned Staff Gage

- 582.88 GROUNDWATER ELEVATION (FEET AMSL)
- 582 — GROUNDWATER ELEVATION CONTOUR LINE (FEET AMSL), DASHED WHERE INFERRED
- ➔ GROUNDWATER FLOW DIRECTION

NOTES:

1. THIS PHOTOGRAMMETRIC BASE MAP WAS PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK. AERIAL PHOTOGRAPHY WAS CONDUCTED ON 11/11/94. ORIGINAL LOCKWOOD MAP WAS AT A SCALE OF 1"=100' AND WAS INTERPRETED FOR TWO-FOOT CONTOURS.
2. SAMPLING LOCATIONS SURVEYED BY ATWELL-HICKS, INC. UTICA, MICHIGAN, FILE NO. M1014SU2, FILE DATE 3/22/96, REVISED 8/8/96, OR SPICER GROUP.
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD 1983.
4. BASE MAP HAS BEEN MODIFIED TO INCORPORATE BUFFER BASIN AND SEDIMENTATION BASIN. SEDIMENTATION BASIN LOCATION FROM THE FINAL ENGINEERING DESIGN REPORT PREPARED BY BBL FOR THE GPL, DATED JANUARY, 1998.
5. PROPERTY BOUNDARY FOR REALM, INC. DIGITIZED FROM SPICER GROUP DRAWING NO. A-21854-1, DATED 3/27/98.



SAGINAW MALLEABLE IRON PLANT PROPERTY
SAGINAW, MICHIGAN

**WATER TABLE ELEVATION
CONTOUR MAP - MAY 16, 2000**

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
3

L: ON= * OFF= *REF*
X: 27608XX1.DWG
P: 27608W01, BTDW01.PCP
9/16/03 SYR-54-DMW
27608090/SMI/27608W01.DWG

*** TX REPORT ***

TRANSMISSION OK

TX/RX NO 3638
CONNECTION TEL 12488132670
SUBADDRESS
CONNECTION ID
ST. TIME 09/18 16:21
USAGE T 01'56
PGS. SENT 10
RESULT OK

FAX TRANSMISSION

BBL, INC.
6723 Towpath Road, Box 66
Syracuse, NY 13214
Phone: 315-446-9120
Fax: 315-446-8053

To:	Delphi Automotive Systems	Fax #:	248-813-2670
Date:	September 18, 2003	Pages:	10, including this page
From:	Lisa Coffey	cc:	
Subject:	General Motors Corporation Notice of Migration		
Project#	644.34		

COMMENTS:

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Tracking number 791005369073
Signed for by T.BROWN
Ship date Sep 18, 2003
Delivery date/time Sep 19, 2003 9:19 am

Reference number 64434.001-0015764434.001
Delivered to Ship'g/Receiv'g
Delivery location TROY MI
Service type Priority Overnight

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	8:38 am	On FedEx vehicle for delivery	AUBURN HILLS MI
	7:21 am	Arrived at FedEx Destination Location	AUBURN HILLS MI
	7:19 am	Left FedEx Ramp	ROMULUS MI
	6:26 am	Arrived at FedEx Ramp	ROMULUS MI
Sep 18, 2003	2:35 am	Left FedEx Sort Facility	NEWARK NJ
	10:08 pm	Left FedEx Ramp	SYRACUSE NY
	8:41 pm	Arrived at FedEx Ramp	SYRACUSE NY
	8:38 pm	Left FedEx Origin Location	NORTH SYRACUSE NY
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