

**Midwest Environmental Management Company** 

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# PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Tarco South Property 2100 East Avenue North Onalaska, Wisconsin

October 6, 1997



## Midwest Environmental Management Company

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Mr. Douglas Joseph Wisconsin Department of Natural Resources 1300 W. Clairemont Avenue P.O. Box 4001 Eau Claire, Wisconsin 54702-4001 007 - 7 1997 DNR - WD

Subject: Phase II Environmental Site Assessment Report for the Tarco South Property, 2100 East Avenue North, Onalaska, Wisconsin (RR Case #02-32-000209).

Dear Mr. Joseph,

Enclosed please find Midwest Environmental Management Company's <u>Phase II Environmental</u> <u>Site Assessment Report</u> concerning soil and groundwater samples collected from the eastern portion of the Tarco South property located in Onalaska, Wisconsin.

A total of six soil samples and three groundwater samples were collected with a Geoprobe unit for certified laboratory analysis from the portion of the Tarco South property located adjacent to U.S. Highway 53. Three soil samples were analyzed for arsenic and three soil samples were analyzed for VOCs and PCBs, with no detectable contamination being reported. However, all three groundwater samples were reported to contain detectable VOCs, which included toluene, 1,1,1-trichloroethane, and trichloroethene. The sample collected from the southwest portion of the property was noted to contain trichloroethene in a concentration above the Groundwater Quality Enforcement Standard.

I trust that this report will provide the data that you need concerning the samples collected from this property. The property owner has indicated to us that, once you have had a chance to review the information in this report, he would be interested in discussing the Department's requirements for completing the investigation of the Tarco South property. If you should require further information or have any questions as you review this report, please contact me at your convenience.

Sincerely, Midwest Environmental Management Company

Jacon Hecht

Jason Herbst Hydrogeologist

enclosure: Phase II Environmental Site Assessment Report

## PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

## Tarco South Property 2100 East Avenue North Onalaska, Wisconsin

Project Number EA97977 October 6, 1997

Prepared By Midwest Environmental Management Company 123 North 4th Street, Suite 202 La Crosse, Wisconsin 54601 (608) 784-5688

Jason Herbst, Hydrogeologist



## Tarco South Property Phase II Environmental Site Assessment Report

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The Tarco South property that was the subject of this Phase II Environmental Site Assessment investigation is located at 2100 East Avenue North in the northern section of the City of Onalaska, La Crosse County, Wisconsin (Figure 1). The portion of the Tarco South property on which the investigation was conducted was located to the west of East Avenue North, east of U.S. Highway 53, and south of Thomas Court. The property consisted of approximately 5.82 acres of vacant land containing no paved roads, surface water, or buildings.

The purpose of this Phase II investigation was to collect and analyze soil and groundwater samples to determine if arsenic, Volatile Organic Compounds (VOCs), or Polychlorinated Biphenyls (PCBs) were present at specific locations along the southwest border of the Tarco South property.

On June 30-July 2, 1997, a bobcat-mounted Geoprobe unit collected soil and groundwater samples for field analysis and for certified laboratory analysis (Figure 3). The soil at this site was found to consist generally of medium to coarse grained sand and groundwater was encountered at 70-76 feet below grade. Based on a groundwater investigation conducted on an adjacent property, the groundwater was anticipated to be moving from the northeast toward the southwest.

A total of five probes were advanced and sampled with the Geoprobe along the southwest border of the Tarco South property (Figure 2). Three probes were situated on the southwest portion of the property (P-1, P-2, and P-3), one probe was located on the west-central portion of the property (P-4), and one probe was positioned on the northwest portion of the property (P-5). Three soil samples collected from the probes located on the southwest portion of the site were analyzed for arsenic content by a certified laboratory. One soil sample from the soil/groundwater interface and one groundwater sample was collected from each of Probes P-1, P-4, and P-5. These samples were analyzed by a certified laboratory for VOCs and PCBs.

The certified laboratory analysis results indicated that no arsenic was detected in the three soil samples collected from the property. These samples were collected from the same area in which a soil sample from a previous investigation had reportedly contained significant arsenic contamination. No VOCs or PCBs were detected in any of the three soil samples submitted for certified laboratory analysis from the soil/groundwater interface located along the southwest boundary of the property (Soil Sample Data Table). No significant FID responses, staining, or odors were encountered in the soil samples collected from the five probes conducted at the Tarco South site.

Three VOCs, consisting of toluene, 1,1,1-trichloroethane, and trichloroethene, were detected in the groundwater sample collected from Probe P-1, located on the southwest portion of the property (Figure 3). Toluene was also detected in Probe P-4, located on the west-central portion of the property and in Probe P-5, located on the northwest portion of the property (Groundwater Sample Data Table).

The concentrations of toluene and 1,1,1-trichloroethane detected in samples from the site were noted to be less than their respective Preventive Action Limits. However, the concentration of trichloroethene detected in Probe P-1 was noted to be in excess of the Enforcement Standard. Further investigation would be required in order to determine the source and extent of the groundwater contamination encountered during this Phase II Environmental Site Assessment.



This section includes general project information, a brief project history, and a general description of the local environment.

#### 2.1 General Information

The subject of this Phase II Environmental Site Assessment Report is the portion of the Tarco South property located to the east of U.S. Highway 53 at 2100 East Avenue North in the City of Onalaska, La Crosse County, Wisconsin.

#### Purpose of the Investigation

This investigation was conducted at the request of Mr. Robert Tooke, 2240 South Avenue, La Crosse, Wisconsin, the current owner of the Tarco South property. The purpose of this investigation was to collect and analyze soil and groundwater samples from specific areas of the Tarco South property and to determine if specific contaminants were present at these locations.

#### Environmental Consultant

The environmental consultant retained to conduct the Phase II investigation of this site was Midwest Environmental Management Company, 123 North 4th Street, Suite 202, La Crosse, Wisconsin, 54601, and the project manager was Jason Herbst, Hydrogeologist, telephone number (608) 784-5688.

#### Property Location

The portion of the Tarco South property being investigated is situated to the east of U.S. Highway 53 in the southwest quarter of the southeast quarter of Section 29, Township 17 North, Range 7 West. The property was located in the extreme northern portion of the City of Onalaska, approximately 2,800 feet south-southeast of the intersection of U.S. Highway 53 and County Trunk Highway OT (please see Figure 1 of this report, the "Property Location Map").

#### Property Description

The Tarco South property consists of approximately 5.82 acres of vacant land, with no buildings, paved roads, surface water, or structures present. The property was bordered on the east by East Avenue North, on the south and west by U.S. Highway 53, and on the north by residential lots bordering Thomas Court. The southern, central and northern portions of the property were generally covered with brush and trees (please see Figure 2, the "Site Layout Map").

#### 2.2 **Project History**

Prior to the current Phase II Environmental Site Assessment investigation, two additional environmental investigations had been completed for this property.

#### Phase One/Phase Two Environmental Assessment

A "Phase One & Phase Two Environmental Assessment" report had previously been prepared by ACG Associates of Tomah, Wisconsin for the subject property. This report included a laboratory analysis report which indicated that arsenic and chromium had been detected in one soil sample collected from the subject property. The arsenic was reported in a concentration of 6.91 parts per

million and the chromium was reported in a concentration of 5.18 parts per million. There was no chain of custody or sample collection information included with the report, but an unscaled site map indicated that the sample had been collected near a high-line utility pole along the southwestern boundary of the property at a depth of 3.5-5.5 feet.

#### Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment was performed on the east portion of the Tarco South property by Midwest Environmental Management Company during June, 1997. The Phase I investigation included a review of environmental records, interviews with the property owner, governmental officials, and others, and a site reconnaissance inspection of the property.

The investigation concluded that two recognized environmental conditions existed on the property. One environmental condition consisted of the arsenic contamination reported in a soil sample collected during the ACG Associates Phase I-Phase II investigation. The arsenic was reportedly in a concentration above state standards and the Wisconsin Department of Natural Resources (WDNR) had required that an additional investigation be conducted.

The other recognized environmental condition consisted of WDNR Environmental Repair Program file reports concerning the possible disposal of chemical wastes on the property during the 1970s. The file also contained the results of an investigation conducted at an adjoining property located to the south of the Tarco South property, then owned by the L.B. White Company. During this investigation, the groundwater had been found to be moving from the northeast toward the southwest. Chlorinated hydrocarbons, including 1,1,1-trichloroethane and trichloroethene, had been detected in groundwater monitoring wells at the site, including wells located on the northern, or up-gradient portion of the L.B. White property.

#### Phase II Environmental Site Assessment

Midwest Environmental was retained by Mr. Robert Tooke on June 16, 1997 to conduct the current Phase II Environmental Site Assessment investigation of the two recognized environmental conditions. The Phase II investigation was to provide for the collection of soil and groundwater samples with a Geoprobe unit from areas of potential environmental concern identified by the WDNR. The samples were to be analyzed in the field and selected samples were to be preserved and submitted to a WDNR-certified laboratory for analysis.

Three soil samples were to be collected and analyzed for arsenic content from the same location and subsurface interval in which the sample containing arsenic contamination was reportedly located. Additional soil samples were to be collected from obviously impacted soil or from the soil/groundwater interface in three probes which were to be advanced to the soil/groundwater interface along the southwest border of the property. These samples were to be analyzed for Volatile Organic Compounds and Polychlorinated Biphenyls. Groundwater samples were to be collected from the same three probes, which were located along the anticipated down-gradient boundary of the Tarco South property, and were to also be analyzed for Volatile Organic Compounds and Polychlorinated Biphenyls.

The Phase II investigation was coordinated with the WDNR Environmental Repair Program project manager and a workplan outlining the proposed investigation was prepared and submitted to the WDNR on June 24, 1997. Verbal approval of the workplan was granted by the WDNR project manager during a telephone call on June 27, 1997, and a letter containing the notice to proceed with the investigation was received from the WDNR dated June 30, 1997.

#### 2.3 Environmental Setting

This section contains general environmental information pertaining to the Tarco South investigation site.

#### **Physical Setting**

The Tarco South property is located in the City of Onalaska, within a broad, flat-bottomed valley formed by the confluence of the Mississippi, Black, and La Crosse Rivers. The subject property was situated between Lake Onalaska, located approximately 3,500 feet to the southwest, and the bluffs of the Mississippi River valley, located approximately 2,500 feet to the northeast. The subject property was slightly rolling, with an elevation of approximately 700-720 feet, and was situated approximately 80 feet above normal river level.

#### Geologic Setting

The unconsolidated interval in this area is typically described as consisting of brown, poorly graded, fine to medium grained sands. Sandstone bedrock of the Mount Simon formation underlies the unconsolidated soil and is typically encountered at a subsurface depth of approximately 185-200 feet in this area.

#### Hydrogeologic Conditions

The groundwater aquifer beneath the subject property was found to be present at a subsurface depth of 70-76 feet and was composed of medium grained, moderately sorted sand. Based upon reports for the L.B. White Company investigation site located immediately to the south of the Tarco South property, the groundwater was anticipated to flow from the northeast toward the southwest.

The following section contains a description of the investigation methods which were utilized in conducting the Phase II Environmental Site Assessment of the Tarco South property.

#### **3.1** Phase II Investigation Preparations

Prior to the initiation of the Phase II field investigation, a site safety plan was developed, contractors were selected, and underground utilities were identified.

#### Site Safety Plan

As required by the U. S. Department of Labor - Occupational Safety and Health Administration, a Site Safety Plan was prepared by Midwest Environmental Management Company for this investigation and was available on site during field operations.

#### Geoprobe Contractor

The contractor selected to provide and operate a Geoprobe sample collection unit for this project was Matrix Technologies, Inc., 8631 Jefferson Highway, Osseo, Minnesota.

#### Certified Laboratory Contractor

The contractor selected to provide certified laboratory analysis services for the soil and groundwater samples collected from the Tarco South site was En Chem, Inc., 1795 Industrial Drive, Green Bay, Wisconsin. En Chem, Inc. has been issued Wisconsin DNR Laboratory Identification Number 40513270.

#### <u>Utility Clearance</u>

Prior to the commencement of subsurface investigative activity, the commercial underground utility lines located on this property were identified and marked through the Wisconsin Diggers Hotline system.

#### **3.2 Soil Probing Procedures**

On June 30, July 1, and July 2, 1997, soil and groundwater samples were collected from five probes located along the southwest boundary of the Tarco South property. A selection of photographs depicting the probing and sample collection operations is included with this report.

#### Soil Probing

A bobcat-mounted Model 5400 Geoprobe unit was used to advance a series of 4 foot long hollow steel probe rods into the soil at designated locations. The probe rods advanced either a 2-inch diameter, 48-inch long steel Macro-Core soil sampling tool or a 1.5-inch diameter, 24-inch long steel Large Bore soil sampling tool into the ground by utilizing the static weight of the carrier vehicle and hydraulic hammer percussion. Each sampling tool contained a disposable plastic liner and was tipped with a steel cutting shoe, an expendable steel drive point, and a plastic core catcher assembly. During probe advancement, a steel pin prevented the drive point from sliding into the collection tube.

At the conclusion of three of the probes, a Screen Point 15 groundwater sampler was attached to

the probe rods and advanced into the aquifer. The Screen Point 15 groundwater sampling tool contained a steel cutting shoe, an expendable steel drive point, a 41 inch long stainless steel screen, and a steel sampler sheath.

#### Equipment Decontamination

Following the collection of each sample, the sampling equipment was decontaminated by scrubbing with a solution of Alconox laboratory detergent and water. The plastic core liner was discarded following the collection of each sample.

#### Borehole Abandonment

Upon completion of sampling activity, each probehole was abandoned with bentonite to prevent contaminant migration within the probehole. Probes P-2 and P-3 were abandoned with chipped bentonite and Probes P-1, P-4, and P-5 were abandoned with bentonite grout. Powdered bentonite was mixed with water to form the grout, which was then placed into the probehole with the use of a funnel and tremie pipe. Wisconsin Department of Natural Resources Borehole Abandonment Forms documenting the abandonment of the probes conducted during this investigation are included in the Appendix Section of this report.

#### Site Mapping

Measurements were recorded for probe locations, streets, driveways, buildings and other pertinent above-ground structures, utility line locations, and property boundaries.

#### **3.3 Sample Collection Procedures**

At selected intervals during each probe, soil and groundwater samples were collected for analysis.

#### Soil Sample Retrieval

At each soil sample location selected by Midwest Environmental, a retaining pin was removed from the sample tube drive point with a plunger rod and the tube was then advanced to allow a core sample of soil to enter the tube. Each core sample was collected within a disposable clear plastic tube liner. The sample collection assembly was retrieved from the probehole, the plastic liner was cut open, and the core sample of soil was removed for analysis.

#### Certified Laboratory Soil Sample Collection

For samples being submitted for Volatile Organic Compounds analysis, a 25-30 gram portion of soil was placed into a 2 ounce glass laboratory jar and preserved with 25 milliliters of laboratory-supplied methanol. Each sample jar was weighed both before and after sample collection to ensure proper sample weight. Another portion of each sample was collected and placed into a 5 ounce plastic cup for moisture content analysis. For samples being submitted for Polychlorinated Biphenyls analysis, one 8 ounce amber glass laboratory jar was filled with soil without preservatives. For samples being submitted for Arsenic analysis, one 5 ounce plastic cup containing no preservatives was filled with soil.

#### Field Soil Sample Collection

Following the collection of laboratory samples, a portion of each soil sample was collected with disposable latex gloves and was placed into a glass canning jar for headspace field analysis in order to detect the presence of volatile and semivolatile organic compounds. Each jar was filled approximately one-half full with soil and the mouth was covered with a double layer of aluminum foil. A lid ring was then screwed on over the foil and the sample was shaken to disaggregate the soil. In order to prevent cross contamination, the sample collector's gloves were disposed of after the collection of each sample. The sample was allowed to warm to a temperature of 70° Fahrenheit

or warmer and to degas for approximately 30 minutes before analysis.

#### Groundwater Sample Collection

Groundwater samples were collected with a Geoprobe SP-15 screened stainless steel groundwater sampler. The SP-15 sampler was attached to the Geoprobe rods and was advanced until the water table was encountered. The sampler was then opened to allow groundwater to infiltrate into the hollow portion of the sampling unit. A section of disposable polyethylene tubing was then inserted down the probe rods, attached to a vacuum pump, and filled with groundwater.

The tubing was then retrieved and the groundwater was discharged into laboratory sample containers. For Volatile Organic Compounds analysis, three 40 milliliter glass vials were filled to a positive miniscus and preserved with hydrochloric acid and for Polychlorinated Biphenyls analysis, one 1 liter amber glass bottle was filled for each groundwater sample location.

#### 3.4 Field Analysis Procedures

Each soil sample collected from the Tarco South site was analyzed on-site for geological and physical properties.

#### Visual Analysis

Each soil sample was analyzed, described and logged in the field by Midwest Environmental personnel. Information was recorded regarding the probehole location, the subsurface depth of each sample, the time of sample collection and the amount of soil recovered from each core. Any visible soil staining or noticeable odor present in the sample was also recorded. Other distinguishing characteristics such as the presence of organic material or other debris, mineral staining, mottling, layering and other soil structures were also noted.

#### **Geological** Analysis

Each sample was classified as to soil type in accordance with the Unified Soil Classification System and the soil color was determined with Munsell Soil Color Charts. The lithology and geologic origin of the component soil particles were noted and if applicable, the size of the soil grains were classified on a scale ranging from very fine to very coarse, the sorting of the grains were classified on a scale of well sorted to poorly sorted, and the shape of the grains were described on a spectrum of well rounded to angular.

#### Organic Vapor Analysis

A portable flame ionization detector (FID) was utilized for headspace field screening of soil samples collected from this site. The FID utilized for this project was a Foxboro "Century" Model 128 Organic Vapor Analyzer which was calibrated with zero air and 95 ppm methane calibration gas standards. After the soil samples were allowed to degas, the probe extension of the FID was introduced through the foil covering into the headspace of each field sample jar, and the highest stable reading within ten to twenty seconds was recorded.

#### 3.5 Certified Laboratory Analysis Procedures

Selected soil and groundwater samples were preserved from each probe and were submitted to a certified laboratory for analysis.

#### Soil Analysis Parameters

Analysis for EPA Method 8260 Volatile Organic Compounds and EPA Method 8080

Polychlorinated Biphenyls were requested for the three soil samples collected from the soil/groundwater interface. EPA Method 6010 Total Arsenic was requested for the three soil samples collected from a subsurface depth of 4-6 feet at the site. The limit of detection and limit of quantitation for each analyte is included in the laboratory analysis report located in the Appendix Section.

#### Groundwater Analysis Parameters

Analysis for EPA Method 8260 Volatile Organic Compounds and EPA Method 8080 Polychlorinated Biphenyls were requested for the three groundwater samples collected from the soil/groundwater interface. The limit of detection and limit of quantitation for each analyte is included in the laboratory analysis report located in the Appendix Section.

#### Quality Control

After collection in the field, each laboratory sample container was labeled as to sample number, location, sample depth, time, date, and sample collector. The samples were immediately cooled to a temperature of less than 4° Celsius with ice, stored in an insulated shipping container, and transported by United Parcel Service to the certified laboratory for analysis. A laboratory-supplied chain of custody document was prepared, signed, and enclosed with the shipping container. Two methanol blanks and a trip blank containing laboratory grade water were enclosed along with the samples in the shipping container.



This Phase II investigation consisted of field and laboratory analysis of soil and groundwater samples collected from the Tarco South property with a Geoprobe unit. The certified laboratory analysis report concerning the samples collected from this site is included in the Appendix Section and the results are summarized in the Soil and Groundwater Sample Data Tables.

#### 4.1 Soil Sample Analysis Results - Probe P-1

The first probe advanced at this site was located in the southwest portion of the site, approximately 250 feet northwest of the southern tip of the property (please see Figure 3). Continuous soil samples were collected from 0-20 feet and from 66-76 feet, and soil samples were collected at 10 foot intervals from 20-60 feet. Each soil sample was analyzed in the field and two samples, one from near the surface of the site and one from the soil/groundwater interface, were preserved for certified laboratory analysis.

The soil encountered in Probe P-1 consisted predominantly of brown medium to coarse grained sand. The sand was generally moderately sorted and subrounded. Headspace analysis with the flame ionization detector resulted in only minor instrument responses of less than 0.5 units and no staining or significant odors were encountered (please see the Soil Boring Log Information Forms included in the Appendix Section). Groundwater was encountered at a subsurface depth of 76 feet.

#### Field Analysis

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The first soil sample submitted from Probe P-1 for certified laboratory analysis was collected at a subsurface depth of 4-6 feet. This sample consisted of light yellowish brown, fine grained, well sorted sand. Headspace analysis with the flame ionization detector (FID) resulted in no detectable response and no staining or odor was noted in the sample.

A second sample was collected for laboratory analysis from the soil/groundwater interface in Probe P-1 at a depth of 75-76 feet. This sample consisted of brown, moderately sorted, medium to coarse grained sand which exhibited no FID response, odor, or staining.

#### Laboratory Analysis

The sample collected from 4-6 feet in Probe P-1 was reported by the certified laboratory to contain no detectable concentration of arsenic.

The sample collected from 75-76 feet was reported by the certified laboratory to contain no detectable concentrations of Volatile Organic Compounds (VOCs) or Polychlorinated Biphenyls (PCBs).

#### 4.2 Soil Sample Analysis Results - Probe P-2

The second soil probe was positioned along the southwest boundary of the property, approximately 22 feet to the northwest of Probe P-1. This probe was advanced to a depth of 8 feet and one soil sample was preserved for certified laboratory analysis.

#### Field Analysis

The soil sample submitted for laboratory analysis from Probe P-2 was collected at a subsurface depth of 4-6 feet. This sample consisted of light yellowish brown, fine grained, moderately to well sorted sand. No staining or odor was noted in the sample.

#### Laboratory Analysis

The sample was reported by the certified laboratory to contain no detectable concentration of arsenic.

#### 4.3 Soil Sample Analysis Results - Probe P-3

The third probe was located along the southwest boundary of the property, approximately 25 feet to the northwest of Probe P-2. This probe was advanced to a depth of 8 feet and one soil sample was preserved for certified laboratory analysis.

#### Field Analysis

The soil sample submitted for laboratory analysis from Probe P-3 was collected at a subsurface depth of 4-6 feet. This sample consisted of light yellowish brown, fine grained, well sorted sand which exhibited no staining or odor.

#### Laboratory Analysis

The sample was reported by the certified laboratory to contain no detectable concentration of arsenic.

#### 4.4 Soil Sample Analysis Results - Probe P-4

Probe P-4 was located along the southwest boundary of the site in the central section of the property, approximately 300 feet northwest of Probe P-1. Continuous soil samples were collected from the intervals of 0-20 feet and 84-86 feet, and soil samples were collected at 10 foot intervals from 20-80 feet. Each sample was analyzed in the field and one soil sample was preserved for certified laboratory analysis.

The soil encountered in Probe P-4 consisted predominantly of brown medium to coarse grained sand. The sand was moderately to poorly sorted and subrounded. Headspace analysis with the FID resulted in only minor responses of less than 0.5 units and no staining or odors were encountered. Groundwater was encountered at a subsurface depth of 85 feet.

#### Field Analysis

One soil sample was collected from the soil/groundwater interface in P-4 at a depth of 84-85 feet. This sample consisted of yellowish brown, moderately sorted, medium to fine grained sand which exhibited no FID response, odor, or staining.

#### Laboratory Analysis

This sample was reported by the certified laboratory to contain no detectable concentrations of VOCs or PCBs.

#### 4.5 Soil Sample Analysis Results - Probe P-5

Probe P-5 was located along the southwest boundary of the site in the northern portion of the

property, approximately 300 feet northwest of Probe P-4. Continuous soil samples were collected from 0-20 feet and soil samples were then collected at 10 foot intervals from 20-70 feet. Each sample was analyzed in the field and one sample was preserved for certified laboratory analysis.

The soil encountered in Probe P-5 consisted predominantly of yellowish brown medium to coarse grained sand. The sand was poorly sorted and subrounded. Headspace analysis with the FID resulted in only one response of 0.3 units and no staining or significant odors were encountered. Groundwater was encountered at a subsurface depth of approximately 70 feet.

#### Field Analysis

One soil sample was collected from the soil/groundwater interface in P-5 at a depth of 68-69 feet. This sample consisted of yellowish brown, moderately sorted, medium grained sand which exhibited no FID response, odor, or staining.

#### Laboratory Analysis

This sample was reported by the certified laboratory to contain no detectable concentrations of VOCs or PCBs.



Groundwater samples were collected and analyzed from three probes during the Phase II investigation of the Tarco South property. The probes were located along the southwest border of the site, in the anticipated down-gradient position from the property. The field and laboratory analysis results for the probes at this site are summarized in the Groundwater Sample Data Table and are also depicted on the Groundwater Laboratory Results Map (Figure 3). The laboratory analysis report for the groundwater samples is included in the Appendix Section.

#### 5.1 Groundwater Sample Analysis Results - Probe P-1

The first groundwater sample was collected from Probe P-1, which was located in the southwest portion of the site, approximately 250 feet to the north of the southern terminus of the property.

#### Field Analysis

The soil/groundwater interface in Probe P-1 was identified at approximately 76 feet below grade and the Screen Point-15 groundwater sampling unit was positioned to encompass a sample interval of 75-79 feet below grade. The groundwater sample collected from Probe P-1 was turbid in appearance but exhibited no indications of odor or free product.

#### Laboratory Analysis

The groundwater sample from Probe P-1 was analyzed by the certified laboratory for Volatile Organic Compounds and Polychlorinated Biphenyls. This sample was reported to contain detectable concentrations of three VOCs and no detectable concentrations of PCB compounds. The VOCs detected consisted of toluene (0.37 parts per billion or "ppb"), 1,1,1-trichloroethane (1.2 ppb), and trichloroethene (15 ppb).

#### 5.2 Groundwater Sample Analysis Results - Probe P-4

A groundwater sample was also collected from Probe P-4, which was located in the west-central portion of the property, approximately 300 feet to the northwest of Probe P-1.

#### Field Analysis

The soil/groundwater interface in Probe P-4 was encountered at 85 feet below grade and the groundwater sampling unit was positioned to encompass a sample interval of 85-89 feet below grade. The groundwater sample collected from Probe P-4 was turbid in appearance and exhibited no odor or free product.

#### Laboratory Analysis

The groundwater sample from Probe P-4 was reported by the certified laboratory to contain a detectable concentration of one VOC, toluene (0.40 ppb), and no detectable concentrations of PCB compounds.

#### 5.3 Groundwater Samples Analysis Results - Probe P-5

The final groundwater sample was collected from Probe P-5, which was located on the northwest

portion of the property, approximately 300 feet to the northwest of Probe P-4.

#### Field Analysis

The soil/groundwater interface in Probe P-5 was identified at approximately 70 feet below grade and the groundwater sampling unit was positioned to encompass a sample interval of 69-73 feet below grade. The groundwater sample collected from Probe P-5 was turbid in appearance and exhibited no odor or free product.

#### Laboratory Analysis

The groundwater sample from Probe P-5 was reported by the certified laboratory to contain a detectable concentration of one VOC, toluene (0.36 ppb), and no detectable concentrations of PCB compounds.



The following conclusions were based upon an analysis of the results of soil and groundwater sample analysis conducted during the Phase II investigation.

#### 6.1 Soil Contamination

An examination of field analysis data concluded that no significant FID responses, staining, or odors were encountered in the soil samples collected from the probes conducted at the Tarco South site.

A review of certified laboratory analysis data concluded that no arsenic had been detected in the three soil samples collected from the property during the Phase II investigation. These samples were collected from the same area in which a soil sample from a previous investigation was reported to contain significant arsenic contamination.

The data also concluded that no Volatile Organic Compounds or Polychlorinated Biphenyl compounds had been detected in any of the three soil samples submitted for certified laboratory analysis from the soil/groundwater interface along the southwest boundary of the property.

#### 6.2 Groundwater Contamination

Based upon certified laboratory data, it was concluded that three VOC compounds, toluene, 1,1,1-trichloroethane, and trichloroethene, were detected in the groundwater sample collected from Probe P-1, which was located on the southwest portion of the property. Toluene was also detected in Probe P-4, located on the west-central portion of the property and in Probe P-5, located on the northwest portion of the property.

Toluene, an aromatic hydrocarbon compound, is a common component of gasoline, solvents, detergents and dyes. Trichloroethene, a chlorinated hydrocarbon compound also known as 1,1,2-trichloroethylene or "TCE", is a common component of solvents, degreasers, drycleaning products and paints. The chlorinated hydrocarbon compound 1,1,1-trichloroethane is commonly found in solvents, degreasers, and pesticides.

#### 6.3 Groundwater Quality Standards

The State of Wisconsin has established Public Health Groundwater Quality Standards for chemical compounds which have been shown through research to be harmful to human health. The groundwater standards for these compounds are included in Chapter NR 140.10 of the Wisconsin Administrative Code. This statute establishes both a Preventive Action Limit and an Enforcement Standard for each compound of concern.

In general, a Preventive Action Limit (PAL) serves as an indicator of a potential contamination problem, and an Enforcement Standard (ES) serves as an indicator of a potential concern for public health which typically requires further investigation. The PAL for toluene is 68.6 ppb, the PAL for 1,1,1-trichloroethane is 40 ppb, and the PAL for trichloroethene is 0.5 ppb.

The concentrations of toluene (0.37 ppb) and 1,1,1-trichloroethane (1.2 ppb) detected in Probe P-1 were noted to be less than their respective Preventive Action Limits. However, the concentration of trichloroethene detected in Probe P-1 (15 ppb) was noted to be in excess of the Preventive Action Limit and to also be in excess of the Enforcement Standard of 5 ppb. In addition to being detected in P-1, toluene was also detected in Probes P-4 and P-5, but only in concentrations of 0.4 ppb or less. These concentrations were noted to be significantly less than the Preventive Action Limit for toluene of 68.6 ppb.

Due to the detection of trichloroethene in a concentration above the Groundwater Quality Enforcement Standard, the Wisconsin Department of Natural Resources would most likely require that additional investigative work be conducted at this site in accordance with Chapter NR 716 of the Wisconsin Administrative Code in order to determine the source, extent, and degree of the groundwater contamination.











FIELD ANAL 1515	,	CERTIFIE	D LABORATORY	ANALYSIS	
Sample Description	FID Response	, VOC	РСВ	Arsenic	
Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.	0 units			none detected	
Sand: medium to coarse grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/3.	0 units	none detected	none detected		
Sand: fine grained, moderately to well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.	-			none detected	
Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.	-			none detected	
Sand: medium to fine grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.	0 units	none detected	none detected		
Sand: medium grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.	tely 0 units none detected none detected				
ound level VOC: Volatile Organic Co Soil Classification System PCB: Polychlorinated Biph	mpounds nenyls	FID: flame ionization detector			
Midwest Environmenta	1	17 210 0	arco South Property 0 East Avenue Nort nalaska, Wisconsin	th	
Management Company		SOIL SA	MPLE DATA T	ABLE	
	Sample Description         Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         Sand: medium to coarse grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/3.         Sand: fine grained, moderately to well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         Sand: medium to fine grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.         Sand: medium grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.         Sand: medium grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.         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Sample Description       FID Response         Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.       0 units         Sand: medium to coarse grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/3.       0 units         Sand: fine grained, moderately to well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.          Sand: fine grained, moderately to well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.          Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.          Sand: fine grained, well sorted, subrounded no odor or staining, USCS: SW, Munsell: 10YR-6/4.          Sand: medium to fine grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.       0 units         Sand: medium grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.       0 units         Sand: medium grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.       0 units         Sand: medium grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.       0 units         Sand: medium grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.       0 units         Sand: medium grained, moderately sorted, subrounded to rounded moderately sorted, subrounded to rounded moderately sorted, subrounded toro rounde	Sample Description         FID Response         VOC           Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         0 units            Sand: medium to coarse grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/3.         0 units         none detected           Sand: fine grained, moderately to well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.             Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.             Sand: medium to fine grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-6/4.         0 units         none detected           Sand: medium to fine grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.         0 units         none detected           Sand: medium to fine grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.         0 units         none detected           Sand: medium grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.         VMI there invitation detector           Midwest Environmental Management Company         VMI there invitation detector         Training 210 210 210 210	Sample Description         FID Response         VOC         PCB           Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         0 units             Sand: medium to coarse grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell: 10YR-5/3.         0 units         none detected         none detected           Sand: fine grained, moderately to well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         0 units             Sand: fine grained, moderately to well sorted, subrounded no odor or staining, USCS: SW, Munsell: 10YR-6/4.             Sand: fine grained, well sorted, subrounded, no odor or staining, USCS: SW, Munsell: 10YR-6/4.         0 units         none detected         none detected           Sand: medium to fine grained, moderately sorted, subrounded to rounded, no odor or staining, USCS: SP, Munsell: 10YR-5/4.         0 units         none detected         none detected           Sand: medium grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell:         0 units         none detected         none detected           Sand: medium grained, moderately sorted, subrounded, no odor or staining, USCS: SP, Munsell:         0 units         none detected         none detected           Midwest Environmental Management Company         YCC Voluth Graw Graw Graw Company         YCC Voluth Graw Company         YCC Volu	

Sample	FIELD ANALYSIS	CERTIFIED LABORATORY ANALYSIS									
Interval	Sample Description	Volatile Organic Compounds	Polychlorinated Biphenyls								
<b>P-1</b> 75'-79' BGL	turbid, no odor or free product	toluene: 0.37 ppb 1,1,1-trichloroethane: 1.2 ppb trichloroethene: 15 ppb**	none detected								
<b>P-4</b> 85'-89' BGL	turbid, no odor or free product	toluene: 0.40 ppb	none detected								
<b>P-5</b> 69'-73' BGL	turbid, no odor or free product	toluene: 0.36 ppb	none detected								

* Denotes compound which exceeds Preventive Action Limit ** Denotes compound	which exceeds Enforcement Standard	ppm: parts per million / milligram	s per liter ppb: parts per bil	lion / micrograms per liter							
Midwest Environmental	Tarco South Property 2100 East Avenue North Onalaska, Wisconsin										
Management Company	GROUNDWATER SAMPLE DATA TABLE										
	Project Number: EA97977	Drafted By: RdM	Approved By: JH	Date: 10-1-97							





#### Photograph No. 1

This photograph depicts the bobcat-mounted Geoprobe unit advancing a soil probe at the location of Probe P-1 on the southwestern portion of the Tarco South property. This probe was located adjacent to a utility pole, which is visible on the left side of the photo, and a fence marking the southwest boundary of the property, which is visible in the background of the photo. Photographed toward the southwest.

#### Photograph No. 2

This photograph depicts the retrieval of a Geoprobe soil sample tube from Probe P-1. The crewman on the right is holding the probe rods which were used to advance the Large Bore sample tube, which is attached to the left end of the probe rods.



Midwest Environmental Management Company

#### Tarco South Property 2100 East Avenue North Onalaska, Wisconsin

## PHOTOGRAPHS Page 1

Project Number: EA97977

Date Photographed: 6-30-97



#### Photograph No. 3

This photograph depicts the collection of a groundwater sample from Probe P-1. The white plastic tubing had previously been inserted down the hollow portion of the probe rods to the water table, attached to the vacuum pump which is visible on the left, and then filled with groundwater from the aquifer. The tubing has now been retrieved from the probe rods and the groundwater sample will be drained from the tubing into laboratory sample containers.

#### Photograph No. 4

This photograph depicts the Geoprobe unit in operation at Probe P-4, located on the west-central portion of the Tarco South property. A chain link fence marking the boundary between the Tarco South property and the right-of-way for U.S. Highway 53 is visible in the foreground of the photo. Photographed toward the northeast.



Midwest Environmental Management Company Tarco South Property 2100 East Avenue North Onalaska, Wisconsin

## PHOTOGRAPHS Page 2

Project Number: EA97977

Date Photographed: 6-30-97 and 7-1-97



#### Photograph No. 5

This photograph depicts the Geoprobe crew in the process of abandoning Probe P-4 with bentonite grout. The grout consisted of powdered bentonite mixed with water to form a viscous liquid which prevents migration within the abandoned probehole. The grout is being poured through a funnel into a tremie pipe, which conducts the grout into the probe hole.

#### Photograph No. 6

This photograph depicts the Geoprobe unit in operation at the location of Probe P-5, which was situated on the northwest portion of the site. The chain link fence on the right side of the photo marked the southwest border of the property. The land to the right of the fence contained the right-of-way for northbound U.S. Highway 53. Photographed toward the southeast.



Midwest Environmental Management Company Tarco South Property 2100 East Avenue North Onalaska, Wisconsin

## PHOTOGRAPHS Page 3

Project Number: EA97977

Date Photographed: 7-1-97





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1	48/42			Sand: fine abundant or organic odo Munsell: 10	Sand: fine grained, well sorted, subrounded, abundant organic material in upper 6", slight organic odor in upper 6", no visible staining, Munsell: 10YR-5/8.							0.4							
2	48/42	** ** **	4	Sand: fine noticeable c 10YR-6/4.	Sand: fine grained, well sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-6/4.							0						o Core ce Method	
3	48/42			Sand: fine a noticeable of 10YR-6/4.	grained, well so odor or visible s	orted, subr taining, M	ounded, n Iunsell:	10	sw			0.2						diameter Macr JVA; Headspa	
4	48/42			Sand (12-14') noticeable od Sand (14-16') subrounded, r Munsell: 10Y	: fine grained, we or or visible staini : medium grained to noticeable odor R-6/3.	ell sorted, su ing, Munsel , moderatel ; or visible s	ubrounded, II: 10YR-6/ y sorted, staining,	no 4.	sw			0						oe Sampler: 2" oro Model 128 (	
5	48/42		16 20	Sand: mediu sorted, subro staining, Mu	Sand: medium to coarse grained, moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-6/3.							0.1						Geoprol FID: Foxb	
6	24/18		28	Sand: mediu subrounded, or visible sta	Sand: medium to coarse grained, poorly sorted, subrounded, scattered gravel, no noticeable odor or visible staining, Munsell: 10YR-5/3.							0							
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### Page <u>2</u> of <u>2</u>

Sam	ple									Soil	Prope	rties		
Number and Type	Length Att & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7	24/24		38 40	Sand: gravel, medium to very coarse grained, poorly sorted, subrounded, abundant gravel (1-10 mm), no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0.4						
8	24/18		48 50	Sand: medium to coarse grained, moderately sorted, subrounded, no noticeable\ odor or visible staining, Munsell: 10YR-5/3.	SP			0.3						
9	24/24		58 60	Sand: medium to very coarse grained, poorly sorted, subrounded, trace gravel (3-5 mm), no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0						rge Bore ace Method
10	24/18		66	Sand: medium to coarse grained, poorly sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0						5" diameter La OVA; Headsp
11	24/12		68	Sand: medium to coarse grained, moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0.1						be Sampler: 1. boro Model 128
12	24/24		70	Sand: medium to coarse grained, moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0.4						Geopro FID: Foxl
13	24/12		72	Sand: medium to coarse grained, moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0						
14	24/18		74	Sand: medium to coarse grained, moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/3. Groundwater @ 76'.	SP			0						
			76	End of Probe @ 79.0'										

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1	48/40		E	material, no	ounded, scatt	dor or visibl	nd organic le staining.	с ,	SW									
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2 40/20			F	Sand: fine g	grained, well	sorted, subr	ounded, no	0	cw/									l po
2 48/39	48/39			10YR-6/4.		stanning, w	iunsen.		5 99									Core Meth
			Ξ								_			_				ro C ace l
			E 8	End of Pro	be @ 8.0'													Mac
																	eter Hei	
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					an a									<u> </u>				8 O'
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						- Ogerspannen - Arronder	a in an											
l here	eby ce	rtify t	hat th	e informati	on on this f	orm is tru	e and co	rrect	to th	e best	t of my	y knov	wledg	е.				
ngnatti	i C	Ŧ	Seen	& Shat	ats.		I N	nim Midw	/est E	nviror	nmenta	ıl Man	agem	ent Co	ompan	y		
This fo	orm is :	author	rized b	y Chapters 1	44.147 and 1	62, Wis. St	ats. Com	pletio	on of t	his re	port is	mand	atory.	Penal	ties: F	orfeit	not le	SS
han \$	10 nor	more	than \$	5,000 for eac	h violation.	Fined not l	ess than \$	510 oi	r more	e than	\$100 o	r impi	risone	l not l	ess tha	n 30 da	iys, or	•
State	State of Wisconsin Route To: SOIL BORING LOG INFORMATION																	
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Depa	rtmen	U DI INA	aturari	E Solid Waste	az. Wa ndergr	ste ound '	Tanks		· OI MI ·	4400-1				Key.	. 3-74			
				Wastewater W Superfund	/ater R other Ei	esour ivironi	ces nental ]	Repair	Progra	m		Pa	ve 1	of	2			
Facili	ty/Pro	ject N	ame		Licen	se/Pei	·mit/M	onitor	ing Nu	imber	Borir	ng Nun	ıber					
Tarco	Sout	h Prop	perty	nome and name of grow chief)	Deta l		a Stor	tod	Data	D.::II:	Con	P-4	D	n er Me	the d			
Firm	: Mat	rix Te	chnol	bgies, Inc.	Date Drilling Started $0, 7, 0, 1, 0, 7$			9 7	0.7/0.1/9.7				Cooproba					
Chie	f: Da	n Pipp	)		MI	<u>M</u> D	D'	ÝÝ	$\frac{\mathbf{O}}{\mathbf{M}} \frac{\mathbf{I}}{\mathbf{M}} \frac{\mathbf{O}}{\mathbf{D}} \frac{\mathbf{I}}{\mathbf{D}} \frac{\mathbf{I}}{\mathbf{Y}} \frac{\mathbf{I}}{\mathbf{Y}} \mathbf{Y} \mathbf{Y} \mathbf{Y}$ Geopre				coprot	je				
DNR	Facili	ty We	II No M	I Unique Well No. Common Well Name	Final	Static	Wate Feet N	r Leve ISL	Surfa	ice Ele	vation _Feet	MSL	Boreh	iamete nches				
Borin	g Loca	ation				at	0	1 11	Loca	Grid	Locati	on (If	applica	ıble)				
State	Flane 1/4 of	SE	1/4 of	Section 29 . T 17 N. R 7 E	W Lor	ai 19	0 1			F	C eet C	IN IS		Feet	DE DW			
Count	ty				County	Code	Civil	Town/	City/ e	of Villa	ige							
La Cr	osse	eresterinterinte		3	<u>}</u>	2	City	of On	alaska	l T			r	na di Kanadan - A	T			
Sam	ple										Soil I	Prope	rties		4			
a	Att 8 ed (i	unts	Fee	And Geologic Origin For						ssive	പ		Å		nts			
Typ	gth ∕ ⊳vere	ပိ	th in	Each Major Unit		$\mathbf{CS}$	phic	l gran		npre	stur tent	Ŀ, E	ticit. ex	0	D/ Imei			
Nun and	Len, Reco	Blov	Dep			υS	Gra Log	Wel Dia;	PID	Con Stre	Con Con	Liqu	Plas Inde	P 2(	Con RQ			
			<b>–</b> 0	Sand: fine to very fine grained, moderately s	sorted.													
1	48/32			subrounded, roots and organic material, no	,	SP			0.2									
_				noticeable odor or visible staining, Munsell: 10YR-5/8.														
												_						
				Sand: fine grained, moderately to well sorted	1, l										g l			
2	48/39			subrounded, no noticeable odor or visible		SW			0.1		:				ore lethc			
				staining, Munsell: 101 K-6/4.											e V N			
						ko <sub>man</sub> alan i ko							alatin of it loop doed		Macr dspa			
3	48/46			Sand: fine grained, moderately to well sorted subrounded, no noticeable odor or visible	d,	sw			0.2						ter l Hea			
-				staining, Munsell: 10YR-6/4.		211			0.2						iame /A;			
		10.0. NV 00000	12						29 <b>0125 (19</b> 07)			_			8 O B			
			2008 12. 2009 2009	Sand: fine to medium grained, moderately so	orted,										er: 2			
4	48/48		2003 2003 2003	subrounded, no noticeable odor or visible		SW			0.2						lode			
+ <u>Y</u>			2368 2222 2428	staining, Munsell: 10YR-6/4.											e Sa ro N			
	andreka konta (k.1300)		- 16	Sand (16-17'): fine to medium grained moderately			tayhataylartaylar						and the second secon	- 000 - 200 10	prob			
5	10117			sorted, subrounded, no noticeable odor or visible staining. Munsell: 10YR-6/4. Sand (17-20): mediu	m to	an l			0.1						Geol FI			
5	40/47			coarse grained, poorly to moderately sorted, subrour no noticeable odor or visible staining, Munsell:	nded,	SP			0.1						FII			
			20	10YR-5/4.														
			28	Sand: medium to coarse grained, poorly to		ļ												
6	24/12			moderately sorted, subrounded to rounded, no	)	SP			0									
	-			10YR-5/3.		Ē												
			30															
I here	eby ce	rtify	that th	e information on this form is true and c	orrect	to th	e best	of my	/ knov	wledge	e.		6.005-000-000-					
		\$	enie	Short 1	Midw	est E	nviror	menta	l Mar	ageme	ent Co	mpan	/					
This fo	orm is	autho	rized b	y Chapters 144.147 and 162, Wis. Stats. Co	mpletio	on of t	his rej	port is	mand	atory.	Penal	ties: F	orfeit	not les	S			
tuan \$. both fo	iu nor or each	more viola	tion. F	o,000 for each violation. Fined not less than Each day of continued violation is a separate	1 <b>310 01</b> : offens	r more e. pur	: man suant i	ф100 0 to ss 14	r impi 14.99 a	risoned and 162	1 not 10 2.06. V	ess tha Vis, Sta	n 30 da ats.	iys, or				

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Sam	ple	<b> </b>			Γ					Soil	Prope	rties		_
Number and Type	Length Att & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7	24/16		38 	Sand: medium to very coarse grained, poorly to very poorly sorted, subrounded to rounded, gravel (3-6 mm), no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0		:				
8	24/22		48	Sand: medium to coarse grained, poorly sorted, subrounded to rounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0						
9	24/11		58 60	Sand: coarse to very coarse grained, poorly to very poorly sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0						rge Bore ace Method
10	24/0.5		68 	Sand: medium grained, moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0						5" diameter La OVA; Headsp
11	24/21		78 80 80	Sand: medium grained, moderately sorted, subrounded to rounded, no noticeable odor or visible staining, Munsell: 10YR-5/3.	SP			0						be Sampler: 1. ooro Model 128
12	24/18		84 86	Sand: medium to fine grained, moderately sorted, subrounded to rounded, no noticeable odor or visible staining, Munsell: 10YR-5/4. Groundwater @ 85'	SP			0						Geopro FID: Fox
THE OWNER WHEN THE				End of Probe @ 89.0'										
سبي المصر					<u> </u>			-						
						Į								
					<u> </u>									
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			-											

State Depa	State of Wisconsin Route To: SOIL BORING LOG INFORMATION Department of Natural Resources Solid Waste Har Woote Form 4400-122 Rev 5-92														
•				Emergency Response U	Jnderg	round	Tanks	;							
					Vater I Other <u>I</u>	xesour Environ	ces mental	Repair	Progra	<u>m_</u>		Pa	ge1	of	2
Facil Tarce	ity/Pro	oject N	Vame perty		Lice	nse/Pe	rmit/M	Ionitor	ing Nu	umber	Boriı	ig Nun	nber	g the constant of the general field of the	<ul> <li>A sector of the s</li></ul>
Borin	ng Dri	lled B	y (Firm	name and name of crew chief)	Date	Date Drilling Started D				P-5 Date Drilling Completed Drilling Method					ethod
Firm Chie	n: Mat f: Da	trix To n Pipp	echnol p	ogies, Inc.	$\frac{0}{M}$	$\frac{7}{M}$ $\frac{7}{D}$	$\frac{1}{D} \frac{1}{D}$	$\frac{9}{\mathbf{Y}}\frac{7}{\mathbf{Y}}$	$\frac{0}{\mathbf{M}} \frac{7}{\mathbf{M}} \frac{1}{\mathbf{D}} \frac{0}{\mathbf{D}} \frac{2}{\mathbf{Y}} \frac{9}{\mathbf{Y}} \frac{7}{\mathbf{Y}}$			G	Geoprobe		
DNR Facility Well No WI Unique Well No. Common Well Name Final Static Water Leve					Surface Elevation Feet MSL 2 in				iamete nches						
Borin	g Loc	ation					0	1 11	Loca	l Grid	Locati	on (If	applic	able)	
State	1/4 of	f SE	1/4 of	$\frac{1}{2} = \frac{1}{2} + \frac{1}$	W Lo	лат ng	0			F	C eet C	1 N 1 S		Feet	
Coun	ty				County	y Code	Civil	Town/	City/	of Villa	age				
La Ci	rosse				3	<u>2</u>	City	of On	alaska		Call	Duone		. د جروم ا آشام و	
Sam	aid A	s	et	Soil/Rock Description						e		Prope	rties		
r pe	Att . red (	ount	in Fe	And Geologic Origin For Each Major Unit			ic.	E	A	essiv th	t e		ity		ents
d Ty	ength	OW C	pth	Each Major Ont		sci	raph og	ell iagra	E a	ompi	oistu onter	quid mit	astic dex	200	) D M M
An an	<u> 12 स</u>	Ē	la o		ter mensen et de 1990	D	<u>ت</u> ن	≯ã	<u>a</u>	<u>5</u> 5	ΣŬ	ΞΞ	PI uI	A	<u>Ř</u> Ŭ
1	48/31			Sand: fine grained, poorly sorted, subround subangular, abundant organic material, orga odor, no visible staining, Munsell: 10YR-4/	ed to nic '3.	SP			0						
			1275 1275 1275												
			4	Sand: fine to very fine grained, moderately	to										
2	48/33			poorly sorted, subrounded, no noticeable ode visible staining, Munsell: 10YR-5/8.	or or	SP			0						re ethod
			2003 2003 2003												0 Co ce M
			8	Sand: fine to medium grained, moderately to	0										Macr idspa
3	48/40			poorly sorted, subrounded, no noticeable od visible staining. Munsell: 10YR-5/4	or or	SP			0						leter Hea
			enam passa passa									1.1			diam OVA;
			<b>1</b> 2	Sand (12-15'): medium grained, moderately to poo	rly or										r: 2" 128
4	48/41			visible staining, Munsell: 10YR-5/4. Sand (15-16') medium to very coarse grained, poorly sorted, roun	ded	SP			0						mple: Iodel
				to well rounded, no noticeable odor or visible staini Munsell: 10YR-5/4.	ng,										oe Sai oro N
anteres a constant de la constant d			<b>-</b> 16	Sand: medium to very coarse grained, poorly	∕ to				Den dyteen die weise op stade						oprot Foxbe
5	48/39			very poorly sorted, rounded, gravel (3-5 mm	), no	SP			0						D: J
				10YR-5/4.											H
			20 28						gant and depended						
6	2414			Sand: coarse to very coarse grained, very poo	orly	an			0						
0	24/14		arast sanat	odor or visible staining, Munsell: 10YR-5/4.	able	SP			0						
		alay and going with	30												
I here	eby ce	rtify	that th	e information on this form is true and o	correc	t to th	e best	of my	/ knov	vledge	e.				
Signatu	ire	R	eni	Shatt h.	Firm Midv	west E	nviror	menta	l Man	ageme	ent Co	mpany	γ		_
This fo	orm is	autho	rized b	y Chapters 144.147 and 162, Wis. Stats. Co	mpleti	on of t	his rej	port is	mand	atory.	Penal	ties: F	orfeit 1	10t les	S
than \$1 both fo	10 nor or eact	<sup>,</sup> more 1 viola	than \$ tion. F	5,000 for each violation. Fined not less that Each day of continued violation is a separate	n \$10 o e offens	r more se, pur	e than suant †	\$100 o to ss 14	r impi 14.99 я	risoned nd 162	l not le 2.06. W	ess thai /is. Sta	n 30 da its.	ys, or	
						-7 F		A					+ Achician bonin wear		12

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											P	age	2 of	2
Number and Type	Length Att & <b>a</b> Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content lioS	Limit Limit	Plasticity sait. Index	P 200	RQD/ Comments
7	24/20		38 40	Sand: medium to very coarse grained, very poorly sorted, subrounded to rounded, gravel (3-5 mm), no noticeable odor or visible staining, Munsell: 10YR-5/4.	SP			0						
8	24/19		48 50	Sand: medium to coarse grained, moderately to poorly sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/4.	SP			0						
9	24/13		58 60	Sand: medium to coarse grained, poorly to moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/4.	SP			0.3						rge Bore ace Method
10	24/24		68	Sand: medium grained, moderately sorted, subrounded, no noticeable odor or visible staining, Munsell: 10YR-5/4. Groundwater @ 69.5-70.0'.	SP			0						5" diameter La OVA; Headsp
			70	End of Probe @ 73.0'										be Sampler: 1. boro Model 128
														Geopro FID: Fox
			2007 2017 2017 2017 2017 2017 2017 2017											



(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole County	Original Well Owner (If Known)
La Crosse	l arco South, Inc.
SW 14.5 SE 14.55. $29 \pm \pi 17$ N.D. 7	Tarco South Inc
<u>Uf applicable</u>	Street or Route
(It appricable)	2100 East Avenue North
Grid Location	City, State, Zip Code
ft. $\square$ N. $\square$ S., ft. $\square$ E. $\square$ W.	Onalaska, WI, 54650
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Onalaska	P-1
Street Address of Well	Reason For Abandonment
2100 East Avenue South	Geoprobe Sample Collection Probe
City, Village	Date of Abandonment
City of Onalaska	7-1-1997
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) <u>6-30-141</u>	Pump & Piping Removed? Yes No No Applicab
Monitoring Well Construction Report Available?	Screen Removed?
Water Well	Casing Left in Place?
Drillhole	If No, Explain
Borehole	Was Casing Cut Off Below Surface?
Construction Type:	Did Scaling Material Rise to Surface?
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? 🔲 Yes 📓 No
Other (Specify) <u>Geoprobe</u>	If Yes, Was Hole Retopped? 🛛 Yes 🗌 No
Formation Tunes	(5) Required Method of Placing Sealing Material
Unconsolidated Formation	Conductor Pipe-Gravity Conductor Pipe-Pumped
— — — — — — — — — — — — — — — — — — —	Dump Bailer     Other (Explain)     G. Sealing Materials     For monitoring wells and
Total Well Depth (ft.) // Casing Diameter (in.) // Casing Diameter (in.)	□ Neat Cement Grout
Casing Depth (tt.)	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) <u>/. 7</u>	Clear Sand Sharm
Was Well Appular Space Crowted? Ves No. Unknown	Bentonite-Sand Slurry
If Yes, To What Depth? Feet	Chipped Bentonite
(7)	No. Yards, (Circle Mix Ratio
Scaling Material Used	From (Ft.) To (Ft.) Sacks Scalant One) or Mud Weight
Bentanite - Coment Grout	Surface 79 17 callouis
(R) Commonter	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
Matrix Technologies, Inc.	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	
Amer Eally 7-C-11	Reviewer/Inspector Complying Work
Street or Route Telephone Number	Noncomplying Work
✓ 8631 Jefferson Highway   (612) 424-4803	Follow-up Necessary
City, State, Zip Code	
Usseo, Minnesota 55369	]
DNR/0	COUNTY

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borchole County	Original Well Owner (If Known)
	Present Well Owner
SW 1/4 of SE 1/4 of Sec 29 : T 17 N R 7	Tarco South, Inc.
(If applicable)	Street or Route
(in apprecisio) Gov't Lot Grid Number	2100 East Avenue North
Grid Location	City, State, Zip Code
ft. \[ N. \[ S.,ft. \[ E. \[ W.	Onalaska, WI, 54650
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well N
Onalaska	P-2
Street Address of Well	Reason For Abandonment
2100 East Avenue South	Geoprobe Sample Collection Probe
City, Village	Date of Abandonment
City of Onalaska	7-1-1741
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date)/////	Pump & Piping Removed? Yes No Not Appli
Monitoring Well Construction Report Available?	Screen Removed?
Water Well	Casing Left in Place? Yes No
Drillhole	If No, Explain
Borehole	Was Casing Cut Off Balay Susface?
Construction Turner	Did Sealing Material Rise to Surface?
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours?
Other (Specify) <u>Geoprobe</u>	If Yes, Was Hole Retopped?
Foundary Trues	(5) Required Method of Placing Sealing Material
Unconsolidated Formation	Conductor Pipe-Gravity 🛛 Conductor Pipe-Pumped
-	Dump Bailer Other (Explain)
Total Well Depth (ft.) (From groundsurface) Casing Diameter (in.)	Neat Cement Grout For monitoring wells and monitoring well boreholes o
Casing Depth (ft.)	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.)	Concrete
	Clay-Sand Slurry
Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth?	Chipped Bentonite
(7)	No. Yards.
Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant (Circle Mix Ratio or Volume One) or Mud Weight
• • • • • • • • • • • • • • • • • • •	UT YOUTHE
Chipped Bantonite	Surface <b>B</b> GALLON
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
Matrix Technologies, Inc.	Date Received/Inspected District/County
(Sugnature of reison Doing Work Date Signed	
Street or Route Telephone Number	Keviewer/Inspector
8631 Jefferson Highway (612) 424-4803	Followam Negessary
City. State. Zin Code	rough and recessory
Osseo, Minnesota 55369	
DNR/C	JUUNTY

# WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-94

(1) GENERAL INFORMATION	(2) FACIL	JTY NAM	E		
Well/Drillhole/Borehole County	Original	Well Owner (I	f Known)		
	Present V	SOULL, III	·		
SW 1/4 of SE 1/4 of Sec $29 \cdot \pm 17$ N/P 7	Tarco	South Ind	ŗ		
(If applicable)	Street or	Route			
(If applicable)	21001	East Aven	ue North		
Grid Location Gov t Lot Grid Number	City, Stat	te. Zip Code			
$ft \square N_1 \square S_{11} \qquad ft \square E_1 \square W$	Onala	ska. WI.	54650		
Civil Town Name	Facility V	Well No. and/o	r Name (If Applic	able)	WI Unique Well No.
Onalaska	F	r-3		·	
Street Address of Well	Reason I	For Abandonn	nent		
2100 East Avenue South	Geopr	obe Samp	le Collection	n Probe	•
City, Village	Date of	Abandonment			
City of Onalaska	7	7-1-199	7		
WELL/DRILLHOLF/BOREHOLE INFORMATION					
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to	Water (Feet)	2		hadden an
(Date) $7 - 1 - 1997$	Pump &	Piping Remo	ved? TYes	<u>л</u>	No 🚺 Not Applicabl
	Liner(s)	Removed?	Yes		Not Applicabl
Monitoring Well Construction Report Available?	Screen F	Removed?	Yes	<u>м</u>	lo 📕 Not Applicabl
Water Well Yes No	Casing I	eft in Place?	Yes	N	No
Drillhole	If No, E:	xplain			
Borehole	Was Cas	ing Cut Off B	elow Surface?		Yes No
Construction Type:	Did Seal	ing Material I	Rise to Surface?		Yes No
Drilled Driven (Sandpoint) Dug	Did Mat	erial Settle Af	ter 24 Hours?		Yes No
Other (Specify) <u>Geoprobe</u>	If Yes,	Was Hole Re	topped?		res 🔲 No
	(5) Required	d Method of P	lacing Sealing M	aterial	
Formation Type:	Con	ductor Pipe-G	avity 🔲 🤇	Conductor	r Pipe-Pumped
Cheonsonuateu Pormation	Dun	np Bailer		)ther (Exp	plain)
Total Well Depth (ft.) Casing Diameter (in.)	(6) Sealing N	Materials	-4	For mo monito	nitoring wells and
(From groundsurface) Casing Depth (ft.)		-Cement (Cor	n verete) Grout		ing the solutions only
Lower Drillhole Diameter (in.) $\mathcal{Z}$		rete	lerete) Grou	! 🗌 Be	entonite Pellets
	Clay	-Sand Slurry		🗄 🗖 Gr	anular Bentonite
Was Well Annular Space Grouted? 🗌 Yes 🔲 No 🔲 Unknown	Bent	onite-Sand Sh	Irry	Be	ntonite - Cement Grout
If Yes, To What Depth? Feet	Chip	ped Bentonite	: 	i	
(7) Scaling Material Used	From (Et )	To (Et )	No. Yards, Socks Socient	(Circle	Mix Ratio
	From (Ft.)	10(11.)	or Volume	One)	or Mud Weight
Cliquel Routenite	Surface	0	Lean	9.1	
Chipped Dentomite		0	1 ghice	·/·	
		,			
			5		
	<u> </u>				
(8) Comments:					
				ter an and the second second	
(9) Name of Person or Firm Doing Sealing Work	(10)	F(	DR DNR OR CO	UNTY US	SE ONLY
Mayıx Technologies, Inc.	Date	Received/Insp	ected	Distri	ict/County
Signature of Person Doing Work Date Signed					
Kumen Lullu 1-C 1/	Revie	wer/Inspector			Complying Work
Street or Route Telephone Number					Noncomplying Work
( <u>612)</u> 424-4803	Follo	w-up Necessar	y		
City, State, Zip Code					
Usseo, Minnesota 55369					
/ מאח	COUNTY				

(1) GENERAL INFORMATION	ON	(2) I	FACI	LITY NAM	E		
Well/Drillhole/Borehole	County	0	)riginal	Well Owner (I	f Known)		
	La Crosse		arco	South, In	c	- <u></u>	<u></u>
SW SE	20 17 7	ł	resent	Well Owner	<b>.</b>		
<u>SVV 1/4 of SL</u> 1/4 of Sec.	<u>; T1/_ N; R/</u> W		arco	South, In	с		
(If applicable)		2		Foot Aven	ue North		
Grid Location Gov't Lot	Grid Number		100 .	ta Zin Code		- <u></u>	
			ny, sia Inala	ska WI	54650		
Civil Town Name	$3., \ ft. \_ E. \_ W.$	- H	beility	Well No and/o	r Name (If Applic	able)	WI Upique Well No
Onalaska			$\mathcal{P}$	- 4	r rame (n Applie	abic)	WI Olique Wen No.
Street Address of Well	· · · · · · · · · · · · · · · · · · ·	R	eason	( For Abandonr	nenf		
2100 East Avenue Sout	h	Ċ	leon	obe Samp	le Collection	n Probe	<u>,</u>
City Village		r	)ate of	Abandonman			
City of Onalaska				1-199-7	L		
	IOLE INCODMATION	1		1 11/1	an a		
(3) Original Well/Drillbole/Borehole (	Construction Completed On	(4) D	enth to	Water (Feet)		Tang and a state of the second	المنافقة المراجعة المنافقة المراجع المنافقة المراجع المنافقة المنافقة المراجع المنافقة المراجع المنافقة المراجع
$(Data) \qquad 7 - 1 - 1997$	completed on		opin d omn 8	Pining Remo	ved? 🗍 Ves		Not Applicable
$(Date) - \frac{1}{1} \frac{1}{1} \frac{1}{1}$		I	iner(s)	Removed?			lo Not Applicable
Monitoring Well	Construction Report Available?	s	creen l	Removed?	Yes	M D	lo Not Applicable
🔲 Water Well	Yes No		asing l	Left in Place?	🗌 Yes	<b>N</b>	ło
Drillhole		I	f No, E	xplain			
Borehole		-	Vas Cas	sing Cut Off B	elow Surface?		
Construction Type			id Sea	ling Material I	Rise to Surface?		$les \square No$
Drilled Driven	(Sandpoint) Dug		id Mat	terial Settle Af	ter 24 Hours?		les No
Other (Specify) <u>Geopro</u>	be		If Yes	, Was Hole Re	topped?		es 🔲 No
* *		(5) R	equire	d Method of P	lacing Sealing M	aterial	· · · · · · · · · · · · · · · · · · ·
Formation Type:	Bedrock	-112.00	Cor	ductor Pipe-G	Gravity 🔲 🤇	Conductor	· Pipe-Pumped
			Du	mp Bailer		Other (Exp	plain)
Total Well Depth (ft.) 89	_ Casing Diameter (in.)	(6) S Г	ealing I	Materials t Coment Crow		For monitor	nitoring wells and ring well boreholes only
(rrom groundsurface)	Casing Depth (ft.)			d-Cement (Co	ncrete) Grout		
Lower Drillhole Diameter (in.)	1.4	Ē	Con	crete	,	¦ 🗌 Be	ntonite Pellets
			] Clay	-Sand Slurry		Gr.	anular Bentonite
Was Well Annular Space Grouted	1? 🗌 Yes 🗌 No 🗌 Unknown		Bent	tonite-Sand Sh	urry	Bei	ntonite - Cement Grout
If Yes, To What Depth?	Feet			ped Bentonite		<u> </u>	
(7) Sealing Mate	erial Used	From	(Ft.)	To (Ft.)	No. Yards, Sacks <u>Seal</u> ant	(Circle	Mix Ratio
	······································				orVolume	S One)	or Mud Weight
Bentanite ~ Comer	at Grout	Surf	ace	89	13 GALL	ONS	
				· · · · · · · · · · · · · · · · · · ·			
						* <u></u>	
				<u> </u>			
(0) Commentati				[	1		
(8) Comments:							
(0) Name of Parson on Firm Doing St	aling Work		710)	E.			L ONT W
Matrix Technologies Ir			Date	Ft Received/Insp	or DNR OR CO	Distal	E UNLY
Signature of Person Doing Work	Date Signed		Date	necercumap	eentu	Distri	ercounty
form: Pappin	7-2-97		Revie	wer/Increator			Complying Work
Street or Route	Telephone Number						Noncomplying Work
8631 Jefferson Highway	/ (612) 424-4803		Follo	w-up Necessar	w.		roncompiting more
City, State, Zip Code				-F Constant	v		
Osseo, Minnesota 5536	9		<b>.</b>				
			τv				
	DNR/C	JUUN	11				

# WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-94

(1) GENERAL INFORMATION	(2) FACILITY NAME									
Well/Drillhole/Borehole County	Original Well Owner (If Known)									
La Crosse	l arco South, Inc.									
SW 14.5 SE 14.5 Sec $29 \pm \pi 17$ No. 7	Tarco South Inc									
<u>Uf and the ND</u> 1/4 of Sec. <u>22</u> , 1. <u>17</u> N; K. <u>7</u> W	Street or Route									
(If applicable)	2100 East Avenue North									
Grid Location	City, State, Zip Code									
ft. N. S., <u>ft.</u> E. W.	Onalaska, WI, 54650									
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well I	No.								
Onalaska	P-5									
Street Address of Well	Reason For Abandonment									
2100 East Avenue South	Geoprobe Sample Collection Probe									
City, Village	Date of Abandonment									
City of Onalaska	7-2-1497									
WELL/DRILLHOLE/BOREHOLE INFORMATION										
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)									
(Date) $7 - 2 - 1447$	Pump & Piping Removed? Yes No Not App	licabl								
	Liner(s) Removed?	licable								
Monitoring Well Construction Report Available?	Casing Left in Place?	licable								
	If No. Explain									
Borehole										
	Was Casing Cut Off Below Surface? 🔲 Yes 🗌 No									
Construction Type:	Did Sealing Material Rise to Surface? Yes 🗌 No									
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours?									
Other (Specify) <u>Geoprobe</u>	If Yes, Was Hole Retopped?									
Formation Type:	(5) Required Method of Placing Sealing Material									
Unconsolidated Formation	Conductor Pipe-Gravity Conductor Pipe-Pumped									
73	(6) Sealing Materials For monitoring wells and									
Total Well Depth (ft.) Casing Diameter (in.)	□ Neat Cement Grout monitoring well borcholes	only								
Casing Depth (ft.)	Sand-Cement (Concrete) Grout									
Lower Drillhole Diameter (in.) <u>/. 4</u>	Concrete   Bentonite Pellets									
	Clay-Sand Slurry									
Was Well Annular Space Grouted? Yes No Unknown If Ves To What Depth?	Bentonite-Sand Slurry     Bentonite - Cement Gi	rout								
(7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight	nt								
······································	or Volumes only or had thege									
Bentonite - Coment Cornut	Surface 73 11 GALLONS									
(8) Comments:										
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY									
Matrix Technologies Inc	Date Received/Inspected District/County									
Signature of Person Doing Work Date Signed	-									
Amn Gallo 7-2-97	Reviewer/Inspector									
Street or Route Telephone Number		·k								
8631 Jefferson Highway (612) 424-4803	Follow-up Necessary	<u></u>								
City, State, Zip Code										
Osseo, Minnesota 55369										
,										





Project Name :	TARCO	SOUTH	PROPERTY
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Project Number: EA97977 WI DNR LAB ID: 40513270

Client: MIDWEST ENVIRONMENTAL

Report Date : 7/18/97

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
870970-001	P-1 4'-6'	6/30/97			
870970-002	P-1 75'-76'	6/30/97			
870970-003	P-1 GW	6/30/97			
870970-004	P-2 4'-6'	7/1/97			
870970-005	P-3 4'-6'	7/1/97			
870970-006	P-4 84'-85'	7/1/97			
870970-007	P-4 GW	7/1/97			
870970-008	P-5 68'-69'	7/2/97			
870970-009	P-5 GW	7/2/97			
870970-010	METH TRIP	7/2/97			
870970-011	TRIP BLANK	7/2/97			

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

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18/0.

Approval Signature

Date



Project Name :	TARCO SOUTH PROPERTY
Project Number :	EA97977
Field ID :	P-1 4'-6'
Lab Sample Number :	870970-001
WI DNR LAB ID :	40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 6/30/97 Matrix Type : SOIL

# **Inorganic Results**

Test		Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analys
Arsenic	<	0.93	0.93	3.0		mg/kg		7/9/97	SW846 3051	SW846 6010	MSB
Solids, percent		93.6				%		7/7/97	SM2540G	SM2540G	PHS



Project Name : TARCO SOUTH PROPERTY Project Number : EA97977 Field ID : P-1 75'-76' Lab Sample Number : 870970-002 WI DNR LAB ID : 40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 6/30/97 Matrix Type : SOIL

#### **Organic Results**

EPA 8260 VOLATILE LIST - SOIL/METHANOL				Prep Method: SW846 5030		Prep Date:	7/7/97	Analyst: RJN	
Analyte	F	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	<	25	25	60	3	ug/kg		7/7/97	SW846-8260
Bromobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromochloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromodichloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromoform	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
s-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
t-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
n-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Carbon tetrachloride	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloroform	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chlorodibromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloroethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
2-Chlorotoluene	<	25	25	60		ug/kg		7/7/97	SW846 8260
4-Chlorotoluene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dibromo-3-chloropropane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dibromoethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Dibromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,3-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,4-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dichloroethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,1-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260
cis-1,2-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Dichlorodifluoromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
trans-1,2-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260

1795 Industrial Drive Green Bay, WI 54302 920-469-2436 800-7-ENCHEM Fax: 920-469-8827

#### - Analytical Report -

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Project Name :	TA	RCO SOUTH P	ROPERTY					
Project Number :	EA	97977			Client :	MIDWEST ENVI	RONMENTAL	
Field ID :	P-'	1 75'-76'			Report Date :	7/18/97		
Lab Sample Number :	87	0970-002			Collection Date :	6/30/97		
WI DNR LAB ID :	40	513270			Matrix Type :	SOIL		
1,2-Dichloropropane	<	25	25	60	ug/kg	7/7/9	97 SW846 8260	
1,1-Dichloroethane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,3-Dichloropropane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
2,2-Dichloropropane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,1-Dichloropropene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
cis-1,3-Dichloropropene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
trans-1,3-Dichloropropene	<	.25	25	60	ug/kg	7/7/9	7 SW846 8260	
Diisopropyl ether	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Ethylbenzene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Fluorotrichloromethane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Hexachlorobutadiene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Isopropylbenzene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
p-Isopropyltoluene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Methylene chloride	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Methyl-tert-butyl-ether	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Naphthalene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
n-Propylbenzene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Styrene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,1,2,2-Tetrachloroethane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,1,1,2-Tetrachloroethane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Tetrachloroethene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
Toluene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,2,3-Trichlorobenzene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,2,4-Trichlorobenzene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,1,1-Trichloroethane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,1,2-Trichloroethane	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,2,4-Trimethylbenzene	<	25	25	60	ug/kg	7/7/91	7 SW846 8260	
Trichloroethene	<	25	25	60	ug/kg	7/7/9	7 SW846 8260	
1,2,3-Trichloropropane	<	25	25	60	ug/kg	7/7/97	7 SW846 8260	
1,3,5-Trimethylbenzene	<	25	25	60	ug/kg	7/7/97	7 SW846 8260	
Vinyl chloride	<	25	25	60	ug/kg	7/7/97	7 SW846 8260	
Xylenes, -m, -p	<	25	25	60	ug/kg	7/7/97	7 SW846 8260	
Xylene, -o	<	25	25	60	ug/ka	7/7/97	7 SW846 8260	
4-Bromofluorobenzene		86			%Recov	7/7/97	7 SW846 8260	
Dibromofluoromethane		94			%Recov	7/7/97	7 SW846 8260	



<b></b>	WI DINK LAB ID ;	40513270		an a		<u>مراجع والمحمد المتحمي والمحمد المتحمي والمحمد المتحمي والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد و</u>
		40542070	Matrix Type :	SOIL		
Lab	Sample Number :	870970-002	Collection Date :	6/30/97		
	Field ID :	P-1 75'-76'	Report Date :	7/18/97		
	Project Number :	EA97977	Client :	MIDWEST	ENVIRONM	ENTAL
	Project Name :	TARCO SOUTH PROPERTY				

#### **Organic Results**

PCB LIST - SOIL			Prep Met	hod: SW846 3550	) Prep Date:	An	Analyst: MAD		
Analyte	Result	LOD	LOQ	EQL Units	s Code	Analysis Date	Analysis Method		
Aroclor 1016	< 3.4	3.4	11	ug/k	)	7/10/97	SW846 8080		
Aroclor 1221	< 3.4	3.4	11	ug/k	3	7/10/97	SW846 8080		
Aroclor 1232	< 3.4	3.4	11	ug/ke	3	7/10/97	SW846 8080		
Aroclor 1242	< 3.4	3.4	11	ug/k	3	7/10/97	SW846 8080		
Aroclor 1248	< 3.4	3.4	11	ug/kg	)	7/10/97	SW846 8080		
Aroclor 1254	< 3.4	3.4	11	ug/kg	3	7/10/97	SW846 8080		
Aroclor 1260	< 3.4	3.4	11	ug/kę	)	7/10/97	SW846 8080		



Project Name : TARCO SOUTH PROPERTY Project Number : EA97977 Field ID : P-1 GW Lab Sample Number : 870970-003 WI DNR LAB ID : 40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 6/30/97 Matrix Type : WATER

EPA 8260 VOLATILE LIST- WATER				Prep Method: SW846 5030		Prep Date:	7/8/97	Analyst: JJB	
Analyte	F	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	<	0.41	0.41	1.3		ug/L		7/8/97	SW846 8260
Bromobenzene	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260
Bromochloromethane	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260
Bromodichloromethane	<	0.18	0.18	0.57		ug/L		7/8/97	SW846 8260
Bromoform	<	0.31	0.31	0.99		ug/L		7/8/97	SW846 8260
Bromomethane	<	0.30	0.30	0.96		ug/L		7/8/97	SW846 8260
s-Butylbenzene	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260
t-Butylbenzene	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260
n-Butylbenzene	<	0.31	0.31	0.99		ug/L		7/8/97	SW846 8260
Carbon tetrachloride	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260
Chloroform	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260
Chlorobenzene	<	0.27	0.27	0.86		ug/L		7/8/97	SW846 8260
Chlorodibromomethane	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260
Chloroethane	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260
Chloromethane	<	0.15	0.15	0.48		ug/L		7/8/97	SW846 8260
2-Chlorotoluene	<	0.27	0.27	0.86		ug/L		7/8/97	SW846 8260
4-Chlorotoluene	<	0.30	0.30	0.96		ug/L		7/8/97	SW846 8260
1,2-Dibromo-3-chloropropane	<	0.58	0.58	1.8		ug/L		7/8/97	SW846 8260
1,2-Dibromoethane	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260
Dibromomethane	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
1,3-Dichlorobenzene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
1,4-Dichlorobenzene	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260
1,2-Dichloroethane	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260
1,2-Dichlorobenzene	<	0.32	0.32	1.0		ug/L		7/8/97	SW846 8260
1,1-Dichloroethene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
cis-1,2-Dichloroethene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
Dichlorodifluoromethane	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260
trans-1,2-Dichloroethene	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260



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Project Name :	T/	ARCO SOUTH	PROPERTY	(				
Project Number :	E/	<b>\97977</b>			Client :	MIDWEST	ENVIRONMEN	ITAL
Field ID :	P-	1 GW			Report Date :	7/18/97		
Lab Sample Number :	87	0970-003			Collection Date :	6/30/97		
WI DNR LAB ID :	40	513270			Matrix Type :	WATER		
1,2-Dichloropropane	<	0.24	0.24	0.76	ug/L	<u>.</u>	7/8/97	SW846 8260
1,1-Dichloroethane	<	0.26	0.26	0.83	ug/L		7/8/97	SW846 8260
1,3-Dichloropropane	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
2,2-Dichloropropane	<	0.45	0.45	1.4	ug/L		7/8/97	SW846 8260
1,1-Dichloropropene	<	0.26	0.26	0.83	ug/L		7/8/97	SW846 8260
cis-1,3-Dichloropropene	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
trans-1,3-Dichloropropene	<	0.45	0.45	1.4	ug/L		7/8/97	SW846 8260
Diisopropyl ether	<	0.43	0.43	1.4	ug/L		7/8/97	SW846 8260
Ethylbenzene	<	0.23	0.23	0.73	ug/L		7/8/97	SW846 8260
Fluorotrichloromethane	<	0.29	0.29	0.92	ug/L		7/8/97	SW846 8260
Hexachlorobutadiene	<	0.31	0.31	0.99	ug/L		7/8/97	SW846 8260
Isopropylbenzene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
p-Isopropyltoluene	<	0.22	0.22	0.70	ug/L		7/8/97	SW846 8260
Methylene chloride	<	0.22	0.22	0.70	ug/L		7/8/97	SW846 8260
Methyl-tert-butyl-ether	<	0.53	0.53	1.7	ug/L		7/8/97	SW846 8260
Naphthalene	<	0.66	0.66	2.1	ug/L		7/8/97	SW846 8260
n-Propylbenzene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
Styrene	<	0.19	0.19	0.61	ug/L		7/8/97	SW846 8260
1,1,2,2-Tetrachloroethane	<	0.46	0.46	1.5	ug/L.		7/8/97	SW846 8260
1,1,1,2-Tetrachloroethane	<	0.21	0.21	0.67	ug/L		7/8/97	SW846 8260
Tetrachloroethene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
Toluene		0.37	0.28	0.89	ug/L	Q	7/8/97	SW846 8260
1,2,3-Trichlorobenzene	<	0.32	0.32	1.0	ug/L		7/8/97	SW846 8260
1,2,4-Trichlorobenzene	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
1,1,1-Trichloroethane		1.2	0.27	0.86	ug/L		7/8/97	SW846 8260
1,1,2-Trichloroethane	<	0.30	0.30	0.96	ua/L		7/8/97	SW846 8260
1,2,4-Trimethylbenzene	<	0.30	0.30	0.96	ua/L		7/8/97	SW846 8260
Trichloroethene		15	0.20	0.64	ua/L		7/8/97	SW846 8260
1,2,3-Trichloropropane	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
1,3,5-Trimethylbenzene	<	0.25	0.25	0.80	ug/L		7/8/97	SW846 8260
Vinyl chloride	<	0.23	0.23	0.73	ua/L		7/8/97	SW846 8260
Xylenes, -m, -p	<	0.51	0.51	1.6	ug/l		7/8/97	SW846 8260
Xylene, -o	<	0.28	0.28	0.89	ug/l		7/8/97	SW846 8260
4-Bromofluorobenzene		102			%Recov		7/8/97	SW846 8260
Dibromofluoromethane		98			%Recov		7/8/97	SW846 8260
					701 (CQUV		1001	000000200



Toluene-d8		99	%Recov	7/	8/97 SW	/846 8260
	WI DNR LAB ID :	40513270	Matrix Type :	WATER		
Lab	Sample Number :	870970-003	Collection Date :	6/30/97		
	Field ID :	P-1 GW	Report Date :	7/18/97		
	Project Number :	EA97977	Client :	MIDWEST EN	WIRONMENTAL	
	Project Name :	TARCO SOUTH PROPERTY				

PCB LIST - WATER			Prep Met	hod: SW846 3510	Prep Date:	Analyst: MAD		
Analyte	Result	LOD	LOQ	EQL Units	Code	Analysis Date	Analysis Method	
Aroclor 1016	< 0.12	0.12	0.38	ug/L		7/9/97	SW846 8080	
Aroclor 1221	< 0.12	0.12	0.38	ug/L		7/9/97	SW846 8080	
Aroclor 1232	< 0.12	0.12	0.38	ug/L		7/9/97	SW846 8080	
Aroclor 1242	< 0.12	0.12	0.38	ug/L		7/9/97	SW846 8080	
Aroclor 1248	< 0.12	0.12	0.38	ug/L		7/9/97	SW846 8080	
Aroclor 1254	< 0.12	0.12	0.38	ug/L		7/9/97	SW846 8080	
Aroclor 1260	< 0.12	0.12	0.38	ug/L		7/9/97	SW846 8080	



Project Name :	TARCO SOUTH PROPERTY		
Project Number :	EA97977	Client :	MIDWEST ENVIRONMENTAL
Field ID :	P-2 4'-6'	Report Date :	7/18/97
Lab Sample Number :	870970-004	Collection Date :	7/1/97
WI DNR LAB ID :	40513270	Matrix Type :	SOIL

# Inorganic Results

Test		Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analys
Arsenic	<	0.91	0.91	2.9		mg/kg		7/9/97	SW846 3051	SW846 6010	MSB
Solids, percent		93.5				%		7/7/97	SM2540G	SM2540G	PHS



Project Name :	TARCO SOUTH PROPERTY		
Project Number :	EA97977	Client :	MIDWEST ENVIRONMENTAL
Field ID :	P-3 4'-6'	Report Date :	7/18/97
Lab Sample Number :	870970-005	Collection Date :	7/1/97
WI DNR LAB ID :	40513270	Matrix Type :	SOIL

# **Inorganic Results**

Test		Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analys
Arsenic	<	0.93	0.93	3.0		mg/kg		7/16/97	SW846 3051	SW846 6010	MWM
Solids, percent		92.2				%		7/7/97	SM2540G	SM2540G	PHS



Project Name : TARCO SOUTH PROPERTY Project Number : EA97977 Field ID : P-4 84'-85' Lab Sample Number : 870970-006 WI DNR LAB ID : 40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 7/1/97 Matrix Type : SOIL

#### **Organic Results**

EPA 8260 VOLATILE LIST - SOIL/METHANOL			Prep Meth	o Method: SW846 5030		Prep Date:	7/7/97	Analyst:	
Analyte	F	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromochloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromodichloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromoform	. <	25	25	60		ug/kg		7/7/97	SW846 8260
Bromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
s-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
t-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
n-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Carbon tetrachloride	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloroform	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chlorobenzene	<	25	25	60		ug/kg		• 7/7/97	SW846 8260
Chlorodibromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloroethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
2-Chlorotoluene	<	25	25	60		ug/kg		7/7/97	SW846 8260
4-Chlorotoluene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dibromo-3-chloropropane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dibromoethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Dibromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,3-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,4-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dichloroethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,1-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260
cis-1,2-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Dichlorodifluoromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
trans-1,2-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260



Project Name :	TA	RCO SOUTH PI	ROPERTY				
Project Number :	ΕA	97977			Client :	MIDWEST ENVIRONME	NTAL
Field ID :	P-4	4 84'-85'			Report Date :	7/18/97	
Lab Sample Number :	87	0970-006			Collection Date :	7/1/97	
WI DNR LAB ID :	40	513270			Matrix Type :	SOIL	
1,2-Dichloropropane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1-Dichloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,3-Dichloropropane	<	25	25	60	ug/kg	7/7/97	SW846 8260
2,2-Dichloropropane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1-Dichloropropene	<	25	25	60	ug/kg	7/7/97	SW846 8260
cis-1,3-Dichloropropene	<	25	25	60	ug/kg	7/7/97	SW846 8260
trans-1,3-Dichloropropene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Diisopropyl ether	<	25	25	60	ug/kg	7/7/97	SW846 8260
Ethylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Fluorotrichloromethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
Hexachlorobutadiene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Isopropylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
p-Isopropyltoluene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Methylene chloride	<	25	25	60	ug/kg	7/7/97	SW846 8260
Methyl-tert-butyl-ether	<	25	25	60	ug/kg	7/7/97	SW846 8260
Naphthalene	<	25	25	60	ug/kg	7/7/97	SW846 8260
n-Propylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Styrene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,2,2-Tetrachloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,1,2-Tetrachloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
Tetrachloroethene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Toluene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,3-Trichlorobenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,4-Trichlorobenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,1-Trichloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,2-Trichloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,4-Trimethylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Trichloroethene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,3-Trichloropropane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,3,5-Trimethylbenzene	<	25	25	60	ua/ka	7/7/97	SW846 8260
Vinyl chloride	<	25	25	60	ua/ka	7/7/97	SW846 8260
Xylenes, -m, -p	<	25	25	60	ua/ka	7/7/97	SW846 8260
Xylene, -o	<	25	25	60	ua/ka	7/7/97	SW846 8260
4-Bromofluorobenzene		87			%Recov	7/7/97	SW846 8260
Dibromofluoromethane		90			%Recov	7/7/97	SW846 8260
					701 (000V	,,,,,,,,	311070 0200



	Project Name :	TARCO SOUTH PROPERTY				
	Project Number :	EA97977	Client :		/IRONMENTAL	
	Field ID :	P-4 84'-85'	Report Date :	7/18/97		
Lab	Sample Number :	870970-006	Collection Date :	7/1/97		
	WI DNR LAB ID :	40513270	Matrix Type :	SOIL		
Toluene-d8		91	%Recov	7/7	/97 SW	/846 8260

# **Organic Results**

PCB LIST - SOIL				Prep Met	hod: SW8	346 3550	Prep Date:	An	alyst: MAD
Analyte	R	esult	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Aroclor 1016	<	3.7	3.7	12		ug/kg		7/10/97	SW846 8080
Aroclor 1221	<	3.7	3.7	12		ug/kg		7/10/97	SW846 8080
Aroclor 1232	<	3.7	3.7	12		ug/kg		7/10/97	SW846 8080
Aroclor 1242	<	3.7	3.7	12		ug/kg		7/10/97	SW846 8080
Aroclor 1248	<	3.7	3.7	12		ug/kg		7/10/97	SW846 8080
Aroclor 1254	<	3.7	3.7	12		ug/kg		7/10/97	SW846 8080
Aroclor 1260	<	3.7	3.7	12		ug/kg		7/10/97	SW846 8080



Project Name :	TARCO SOUTH PROPERTY
Project Number :	EA97977
Field ID :	P-4 GW
Lab Sample Number :	870970-007
WI DNR LAB ID :	40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 7/1/97 Matrix Type : WATER

EPA 8260 VOLATILE LIST- WATER				Prep Method: SW846 503			Prep Date:	7/8/97	Analyst: JJB
Analyte	ł	Result	LOD	LOQ	EQ	L Units	Code	Analysis Date	Analysis Method
Benzene	<	0.41	0.41	1.3		ug/L		7/8/97	SW846 8260
Bromobenzene	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260
Bromochloromethane	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260
Bromodichloromethane	<	0.18	0.18	0.57		ug/L		7/8/97	SW846 8260
Bromoform	<	0.31	0.31	0.99		ug/L		7/8/97	SW846 8260
Bromomethane	<	0.30	0.30	0.96		ug/L		7/8/97	SW846 8260
s-Butylbenzene	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260
t-Butylbenzene	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260
n-Butylbenzene	<	0.31	0.31	0.99		ug/L		7/8/97	SW846 8260
Carbon tetrachloride	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260
Chloroform	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260
Chlorobenzene	<	0.27	0.27	0.86		ug/L		7/8/97	SW846 8260
Chlorodibromomethane	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260
Chloroethane	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260
Chloromethane	<	0.15	0.15	0.48		ug/L		7/8/97	SW846 8260
2-Chlorotoluene	<	0.27	0.27	0.86		ug/L		7/8/97	SW846 8260
4-Chlorotoluene	<	0.30	0.30	0.96		ug/L		7/8/97	SW846 8260
1,2-Dibromo-3-chloropropane	<	0.58	0.58	1.8		ug/L		7/8/97	SW846 8260
1,2-Dibromoethane	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260
Dibromomethane	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
1,3-Dichlorobenzene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
1,4-Dichlorobenzene	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260
1,2-Dichloroethane	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260
1,2-Dichlorobenzene	<	0.32	0.32	1.0		ug/L		7/8/97	SW846 8260
1,1-Dichloroethene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
cis-1,2-Dichloroethene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260
Dichlorodifluoromethane	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260
trans-1,2-Dichloroethene	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260



Project Name :	ТА	RCO SOUT	H PROPERT	Y				
Project Number :	E٨	97977			Client :	MIDWEST	ENVIRON	MENTAL
Field ID :	P-4	4 GW			Report Date :	7/18/97		
Lab Sample Number :	87	0970-007			Collection Date :	7/1/97		
WI DNR LAB ID :	40	513270			Matrix Type :	WATER		
1,2-Dichloropropane	<	0.24	0.24	0.76	ug/L		7/8/97	SW846 8260
1,1-Dichloroethane	<	0.26	0.26	0.83	ug/L		7/8/97	SW846 8260
1,3-Dichloropropane	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
2,2-Dichloropropane	<	0.45	0.45	1.4	ug/L		7/8/97	SW846 8260
1,1-Dichloropropene	<	0.26	0.26	0.83	ug/L		7/8/97	SW846 8260
cis-1,3-Dichloropropene	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
trans-1,3-Dichloropropene	<	0.45	0.45	1.4	ug/L		7/8/97	SW846 8260
Diisopropyl ether	<	0.43	0.43	1.4	ug/L		7/8/97	SW846 8260
Ethylbenzene	<	0.23	0.23	0.73	ug/L		7/8/97	SW846 8260
Fluorotrichloromethane	<	0.29	0.29	0.92	ug/L		7/8/97	SW846 8260
Hexachlorobutadiene	<	0.31	0.31	0.99	ug/L		7/8/97	SW846 8260
lsopropylbenzene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
p-Isopropyltoluene	<	0.22	0.22	0.70	ug/L		7/8/97	SW846 8260
Methylene chloride	<	0.22	0.22	0.70	ug/L		7/8/97	SW846 8260
Methyl-tert-butyl-ether	<	0.53	0.53	1.7	ug/L		7/8/97	SW846 8260
Naphthalene	<	0.66	0.66	2.1	ug/L		7/8/97	SW846 8260
n-Propylbenzene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
Styrene	<	0.19	0.19	0.61	ug/L		7/8/97	SW846 8260
1,1,2,2-Tetrachloroethane	<	0.46	0.46	1.5	ug/L		7/8/97	SW846 8260
1,1,1,2-Tetrachloroethane	<	0.21	0.21	0.67	ug/L		7/8/97	SW846 8260
Tetrachloroethene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
Toluene		0.40	0.28	0.89	ug/L	Q	7/8/97	SW846 8260
1,2,3-Trichlorobenzene	<	0.32	0.32	1.0	ug/L		7/8/97	SW846 8260
1,2,4-Trichlorobenzene	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
1,1,1-Trichloroethane	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
1,1,2-Trichloroethane	<	0.30	0.30	0.96	ug/L		7/8/97	SW846 8260
1,2,4-Trimethylbenzene	<	0.30	0.30	0.96	ug/L		7/8/97	SW846 8260
Trichloroethene	<	0.20	0.20	0.64	ug/L		7/8/97	SW846 8260
1,2,3-Trichloropropane	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
1,3,5-Trimethylbenzene	<	0.25	0.25	0.80	ug/L		7/8/97	SW846 8260
Vinyl chloride	<	0.23	0.23	0.73	ug/L		7/8/97	SW846 8260
Xylenes, -m, -p	<	0.51	0.51	1.6	ug/L		7/8/97	SW846 8260
Xylene, -o	<	0.28	0.28	0.89	ug/L		7/8/97	SW846 8260
4-Bromofluorobenzene		101			%Recov		7/8/97	SW846 8260
Dibromofluoromethane		95			%Recov		7/8/97	SW846 8260



Toluene-d8		98	%Recov	7/	8/97 SV	V846 8260
	WI DNR LAB ID :	40513270	Matrix Type :	WATER		a that was a successive and
Lab	Sample Number :	870970-007	Collection Date :	7/1/97		
	Field ID :	P-4 GW	Report Date :	7/18/97		
	Project Number :	EA97977	Client :	MIDWEST EN	VIRONMENTAL	
	Project Name :	TARCO SOUTH PROPERTY				

PCB LIST - WATER			Prep Met	hod: SW846 3510	Prep Date:	An	alyst: MAD
Analyte	Result	LOD	LOQ	EQL Units	Code	Analysis Date	Analysis Method
Aroclor 1016	< 0.11	0.11	0.35	ug/L	, of Plancy game of Mark, again	7/9/97	SW846 8080
Aroclor 1221	< 0.11	0.11	0.35	ug/L		7/9/97	SW846 8080
Aroclor 1232	< 0.11	0.11	0.35	ug/L		7/9/97	SW846 8080
Aroclor 1242	< 0.11	0.11	0.35	ug/L		7/9/97	SW846 8080
Aroclor 1248	< 0.11	0.11	0.35	ug/L		7/9/97	SW846 8080
Aroclor 1254	< 0.11	0.11	0.35	ug/L		7/9/97	SW846 8080
Aroclor 1260	< 0.11	0.11	0.35	ug/L		7/9/97	SW846 8080



Project Name : TARCO SOUTH PROPERTY Project Number : EA97977 Field ID : P-5 68'-69' Lab Sample Number : 870970-008 WI DNR LAB ID : 40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 7/2/97 Matrix Type : SOIL

#### **Organic Results**

EPA 8260 VOLATILE LIST - SOIL/METHANOL			Prep Method: SW846 50		846 5030	6 5030 Prep Date:		Analyst:	
Analyte	F	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromochloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromodichloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromoform	<	25	25	60		ug/kg		7/7/97	SW846 8260
Bromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
s-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
t-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
n-Butylbenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Carbon tetrachloride	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloroform	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chlorodibromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloroethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Chloromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
2-Chlorotoluene	<	25	25	60		ug/kg		7/7/97	SW846 8260
4-Chlorotoluene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dibromo-3-chloropropane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dibromoethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
Dibromomethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,3-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,4-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dichloroethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,2-Dichlorobenzene	<	25	25	60		ug/kg		7/7/97	SW846 8260
1,1-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260
cis-1,2-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260
Dichlorodifluoromethane	<	25	25	60		ug/kg		7/7/97	SW846 8260
trans-1,2-Dichloroethene	<	25	25	60		ug/kg		7/7/97	SW846 8260

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#### - Analytical Report -

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Project Name :	TA	RCO SOUTH F	ROPERTY				
Project Number :	EA	97977			Client : MI		NTAL
Field ID :	P-	5 68'-69'			Report Date: 7/1	8/97	
Lab Sample Number :	87	0970-008			Collection Date: 7/2	2/97	
WI DNR LAB ID :	40	513270			Matrix Type: SO	DIL	
1,2-Dichloropropane	<	25	25	60	ua/ka	7/7/97	SW846 8260
1,1-Dichloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,3-Dichloropropane	<	25	25	60	ug/kg	7/7/97	SW846 8260
2,2-Dichloropropane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1-Dichloropropene	<	25	25	60	ug/kg	7/7/97	SW846 8260
cis-1,3-Dichloropropene	<	25	25	60	ug/kg	7/7/97	SW846 8260
trans-1,3-Dichloropropene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Diisopropyl ether	<	25	25	60	ug/kg	7/7/97	SW846 8260
Ethylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Fluorotrichloromethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
Hexachlorobutadiene	<	25	25	60	ug/kg	7/7/97	SW846 8260
lsopropylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
p-Isopropyltoluene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Methylene chloride	<	25	25	60	ug/kg	7/7/97	SW846 8260
Methyl-tert-butyl-ether	<	25	25	60	ug/kg	7/7/97	SW846 8260
Naphthalene	<	25	25	60	ug/kg	7/7/97	SW846 8260
n-Propylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Styrene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,2,2-Tetrachloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,1,2-Tetrachloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
Tetrachloroethene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Toluene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,3-Trichlorobenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,4-Trichlorobenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,1-Trichloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,1,2-Trichloroethane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,4-Trimethylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Trichloroethene	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,2,3-Trichloropropane	<	25	25	60	ug/kg	7/7/97	SW846 8260
1,3,5-Trimethylbenzene	<	25	25	60	ug/kg	7/7/97	SW846 8260
Vinyl chloride	<	25	25	60	ug/kg	7/7/97	SW846 8260
Xylenes, -m, -p	<	25	25	60	ug/kg	7/7/97	SW846 8260
Xylene, -o	<	25	25	60	ug/kg	7/7/97	SW846 8260
4-Bromofluorobenzene		92			%Recov	7/7/97	SW846 8260
Dibromofluoromethane		95			%Recov	7/7/97	SW846 8260



Toluene-d8		98	%Recov	7/7/97	7 SW846 8260	
	WI DNR LAB ID :	40513270	Matrix Type :	SOIL		
Lab	Sample Number :	870970-008	Collection Date :	7/2/97		
	Field ID :	P-5 68'-69'	Report Date :	7/18/97		
	Project Number :	EA97977	Client :	MIDWEST ENVIR	ONMENTAL	
	Project Name :	TARCO SOUTH PROPERTY				

#### **Organic Results**

PCB LIST - SOIL			Prep Method: SW846 3550				Analyst: MAD	
Analyte	Resul	t LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Aroclor 1016	< 3.3	3.3	11		ug/kg		7/10/97	SW846 8080
Aroclor 1221	< 3.3	3.3	11		ug/kg		7/10/97	SW846 8080
Aroclor 1232	< 3.3	3.3	11		ug/kg		7/10/97	SW846 8080
Aroclor 1242	< 3.3	3.3	11		ug/kg		7/10/97	SW846 8080
Aroclor 1248	< 3.3	3.3	11		ug/kg		7/10/97	SW846 8080
Aroclor 1254	< 3.3	3.3	11		ug/kg		7/10/97	SW846 8080
Aroclor 1260	< 3.3	3.3	11		ug/kg		7/10/97	SW846 8080



Project Name :	TARCO SOUTH PROPERTY
Project Number :	EA97977
Field ID :	P-5 GW
Lab Sample Number :	870970-009
WI DNR LAB ID :	40513270

Client :	MIDWEST ENVIRONMENTAL
Report Date :	7/18/97
Collection Date :	7/2/97
Matrix Type :	WATER

EPA 8260 VOLATILE LIST- WATER			Prep Method: SW846 5030			Prep Date:	7/8/97	7/8/97 Analyst: CJG		
Analyte	F	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
Benzene	<	0.41	0.41	1.3		ug/L		7/8/97	SW846 8260	
Bromobenzene	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260	
Bromochloromethane	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260	
Bromodichloromethane	<	0.18	0.18	0.57		ug/L		7/8/97	SW846 8260	
Bromoform	<	0.31	0.31	0.99		ug/L		7/8/97	SW846 8260	
Bromomethane	<	0.30	0.30	0.96		ug/L		7/8/97	SW846 8260	
s-Butylbenzene	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260	
t-Butylbenzene	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260	
n-Butylbenzene	<	0.31	0.31	0.99		ug/L		7/8/97	SW846 8260	
Carbon tetrachloride	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260	
Chloroform	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260	
Chlorobenzene	<	0.27	0.27	0.86		ug/L		7/8/97	SW846 8260	
Chlorodibromomethane	<	0.23	0.23	0.73		ug/L		7/8/97	SW846 8260	
Chloroethane	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260	
Chloromethane	<	0.15	0.15	0.48		ug/L		7/8/97	SW846 8260	
2-Chlorotoluene	<	0.27	0.27	0.86		ug/L		7/8/97	SW846 8260	
4-Chlorotoluene	<	0.30	0.30	0.96		ug/L		7/8/97	SW846 8260	
1,2-Dibromo-3-chloropropane	<	0.58	0.58	1.8		ug/L		7/8/97	SW846 8260	
1,2-Dibromoethane	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260	
Dibromomethane	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260	
1,3-Dichlorobenzene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260	
1,4-Dichlorobenzene	<	0.29	0.29	0.92		ug/L		7/8/97	SW846 8260	
1,2-Dichloroethane	<	0.24	0.24	0.76		ug/L		7/8/97	SW846 8260	
1,2-Dichlorobenzene	<	0.32	0.32	1.0		ug/Ł		7/8/97	SW846 8260	
1,1-Dichloroethene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260	
cis-1,2-Dichloroethene	<	0.28	0.28	0.89		ug/L		7/8/97	SW846 8260	
Dichlorodifluoromethane	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260	
trans-1,2-Dichloroethene	<	0.25	0.25	0.80		ug/L		7/8/97	SW846 8260	

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# - Analytical Report -

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Project Name :	ΤА	RCO SOUTH I	PROPERT	Y				
Project Number :	EA	97977			Client :	MIDWEST	ENVIRONM	ENTAL
Field ID :	P-f	5 GW			Report Date :	7/18/97		
Lab Sample Number :	87(	0970-009			Collection Date :	7/2/97		
WI DNR LAB ID :	40!	513270			Matrix Type :	WATER		
		ويرتبع والمتحفة المتحرين والمحافظ الالتقا						
1,2-Dichloropropane	<	0.24	0.24	0.76	ug/L		7/8/97	SW846 8260
1,1-Dichloroethane	<	0.26	0.26	0.83	ug/L		7/8/97	SW846 8260
1,3-Dichloropropane	<	0.27	0.27	0.86	ug/L		7/8/97	SVV846 8260
2,2-Dichloropropane	<	0.45	0.45	1.4	ug/L		7/8/97	SW846 8260
1,1-Dichloropropene	<	0.26	0.26	0.83	ug/L		7/8/97	SW846 8260
cis-1,3-Dichloropropene	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
trans-1,3-Dichloropropene	<	0.45	0.45	1.4	ug/L		7/8/97	SW846 8260
Diisopropyl ether	<	0.43	0.43	1.4	ug/L		7/8/97	SW846 8260
Ethylbenzene	<	0.23	0.23	0.73	ug/L		7/8/97	SW846 8260
Fluorotrichloromethane	<	0.29	0.29	0.92	ug/L		7/8/97	SW846 8260
Hexachlorobutadiene	<	0.31	0.31	0.99	ug/L		7/8/97	SW846 8260
Isopropylbenzene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
p-lsopropyltoluene	<	0.22	0.22	0.70	ug/L		7/8/97	SW846 8260
Methylene chloride	<	0.22	0.22	0.70	ug/L		7/8/97	SW846 8260
Methyl-tert-butyl-ether	<	0.53	0.53	1.7	ug/L		7/8/97	SW846 8260
Naphthalene	<	0.66	0.66	2.1	ug/L		7/8/97	SW846 8260
n-Propylbenzene	<	0.27	0.27	0.86	ug/L		7/8/97	SW846 8260
Styrepe	<	0.19	0.19	0.61	ua/L		7/8/97	SW846 8260
1 1 2 2-Tetrachloroethane		0.46	0.46	15	ug/L		7/8/97	SW846 8260
1 1 1 2 Tetrachloroethane	2	0.40	0.10	0.67	ug/L		7/8/97	SW846 8260
Tetrachieroethona	)	0.21	0.21	0.86	ug/L		7/8/97	SW846 8260
Teluene		0.27	0.27	0.00	ug/L	0	7/8/97	SW846 8260
		0.36	0.20	1.05	ug/L	Q	7/8/07	SW846 8260
	<	0.32	0.32	1.0	ug/L		7/8/07	SW846 8260
1,2,4-Irichlorobenzene	<	0.48	0.48	1.5	ug/L		710191	SW040 0200
1,1,1-Irichloroethane	<	0.27	0.27	0.86	ug/L		710191	SW040 8200
1,1,2-Trichloroethane	<	0.30	0.30	0.96	ug/L		110197	SVV646 6260
1,2,4-Trimethylbenzene	<	0.30	0.30	0.96	ug/L		//8/97	SVV846 8260
Trichloroethene	<	0.20	0.20	0.64	ug/L		7/8/97	SW846 8260
1,2,3-Trichloropropane	<	0.48	0.48	1.5	ug/L		7/8/97	SW846 8260
1,3,5-Trimethylbenzene	<	0.25	0.25	0.80	ug/L		7/8/97	SW846 8260
Vinyl chloride	<	0.23	0.23	0.73	ug/L		7/8/97	SW846 8260
Xylenes, -m, -p	<	0.51	0.51	1.6	ug/L		7/8/97	SW846 8260
Xylene, -o	<	0.28	0.28	0.89	ug/L		7/8/97	SW846 8260
4-Bromofluorobenzene		75			%Recov		7/8/97	SW846 8260
Dibromofluoromethane		90			%Recov		7/8/97	SW846 8260



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SW846 8260

# - Analytical Report -

Project Name :	TARCO SOUTH PROPERTY		
Project Number :	EA97977	Client :	MIDWEST ENVIRONMENTAL
Field ID :	P-5 GW	Report Date :	7/18/97
Lab Sample Number :	870970-009	Collection Date :	7/2/97
WI DNR LAB ID :	40513270	Matrix Type :	WATER

%Recov

7/8/97

Toluene-d8

89

PCB LIST - WATER			Prep Method: SW846 3510 P				Analyst: MAD	
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Aroclor 1016	< 0.11	0.11	0.35		ug/L		7/9/97	SW846.8080
Aroclor 1221	< 0.11	0.11	0.35		ug/L		7/9/97	SW846 8080
Aroclor 1232	< 0.11	0.11	0.35		ug/L		7/9/97	SW846 8080
Aroclor 1242	< 0.11	0.11	0.35		ug/L		7/9/97	SW846 8080
Aroclor 1248	< 0.11	0.11	0.35		ug/L		7/9/97	SW846 8080
Aroclor 1254	< 0.11	0.11	0.35		ug/L		7/9/97	SW846 8080
Aroclor 1260	< 0.11	0.11	0.35		ug/L		7/9/97	SW846 8080



Project Name :	TARCO SOUTH PROPERTY
Project Number :	EA97977
Field ID :	METH TRIP
Lab Sample Number :	870970-010
WI DNR LAB ID :	40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 7/2/97 Matrix Type : METHANOL

EPA 8260 VOLATILE LIST - METHANOL			Prep Met	Prep Method: SW846 5030			7/7/97	Analyst: RJN	
Analyte	f	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	<	25	25	60		ug/L		7/8/97	SW846 8260
Bromobenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
Bromochloromethane	<	25	25	60		ug/L		7/8/97	SW846 8260
Bromodichloromethane	<	25	25	60		ug/L		7/8/97	SW846 8260
Bromoform	<	25	25	60		ug/L		7/8/97	SW846 8260
Bromomethane	<	25	25	60		ug/L		7/8/97	SW846 8260
s-Butylbenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
t-Butylbenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
n-Butylbenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
Carbon tetrachloride	<	25	25	60		ug/L		7/8/97	SW846 8260
Chloroform	<	25	25	60		ug/L		7/8/97	SW846 8260
Chlorobenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
Chlorodibromomethane	<	25	25	60		ug/L		7/8/97	SW846 8260
Chloroethane	<	25	25	60		ug/L		7/8/97	SW846 8260
Chloromethane	<	25	25	60		ug/L		7/8/97	SW846 8260
2-Chlorotoluene	<	25	25	60		ug/L		7/8/97	SW846 8260
4-Chlorotoluene	<	25	25	60		ug/L		7/8/97	SW846 8260
1,2-Dibromo-3-chloropropane	<	25	25	60		ug/L		7/8/97	SW846 8260
1,2-Dibromoethane	<	25	25	60		ug/L		7/8/97	SW846 8260
Dibromomethane	<	25	25	60		ug/L		7/8/97	SW846 8260
1,3-Dichlorobenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
1,4-Dichlorobenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
1,2-Dichloroethane	<	25	25	60		ug/L		7/8/97	SW846 8260
1,2-Dichlorobenzene	<	25	25	60		ug/L		7/8/97	SW846 8260
1,1-Dichloroethene	<	25	25	60		ug/L		7/8/97	SW846 8260
cis-1,2-Dichloroethene	<	25	25	60		ug/L		7/8/97	SW846 8260
Dichlorodifluoromethane	<	25	25	60		ug/L		7/8/97	SW846 8260
trans-1,2-Dichloroethene	<	25	25	60		ug/L		7/8/97	SW846 8260



Project Name : TARCO SOUTH PROPERTY

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# - Analytical Report -

Field ID:         METH TRIP         Report Date:         7/18/97           Lab Sample Number:         870970-010         Collection Date:         7/28/97           M DNR LAB ID:         46813270         Matrix Type:         METHANDU           1.2-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           1.3-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           2.2-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           1.3-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           1.1-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           1.1-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           1.1-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           1.1-Dichloropropane         < 25         25         60         ug/L         7/8/97         SW446 8260           1.1-Dichlorophopene         < 25         25         60 <th colspan="2">Project Number :</th> <th colspan="3">EA97977</th> <th colspan="3">Client: MIDWEST ENVIRONMENTAL</th>	Project Number :		EA97977			Client: MIDWEST ENVIRONMENTAL		
Lab Sample Number:         870970-010         Collection Date:         7/297           MINR LAB ID:         40513270         Matrix Type:         METHANOL           1.2-Dichloropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.3-Dichloropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.3-Dichloropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.1-Dichloropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.1-Dichloropropene          2.5         2.5         60         ug/L         7/8/97         SW846 8260           Lanas-1.3-Dichloropropene          2.5         2.5         60         ug/L         7/8/97         SW846 8260           Ethylbenzene          2.5         2.5         60         ug/L         7/8/97         SW846 8260           Hexachlorobutadiene          2.5         2.5         60         ug/L         7/8/97         SW846 8260           Lioopropiplenzene          2.5 <td< th=""><th>Field ID :</th><th>M</th><th>ETH TRIP</th><th></th><th></th><th>Report Date :</th><th>7/18/97</th><th></th></td<>	Field ID :	M	ETH TRIP			Report Date :	7/18/97	
Liss Gunger Hunder :         Otoroto         Matrix Type :         METHANOL           1,2-Dichloropropane          25         25         60         ug/L         7/8/97         SW486 8260           1,1-Dichloropropane          25         25         60         ug/L         7/8/97         SW486 8260           2,2-Dichloropropane          25         25         60         ug/L         7/8/97         SW486 8260           2,2-Dichloropropane          25         25         60         ug/L         7/8/97         SW486 8260           cis-1,3-Dichloropropene          25         25         60         ug/L         7/8/97         SW486 8260           Lin-1,3-Dichloropropene          25         25         60         ug/L         7/8/97         SW486 8260           Fluorotrichloromethane          25         25         60         ug/L         7/8/97         SW486 8260           Fluorotrichloromethane          25         25         60         ug/L         7/8/97         SW486 8260           p-isopropyllotuene          25         25         60         ug/L         7/8/97         SW486 8260 <td< th=""><th>I ah Sample Number :</th><th>87</th><th>0970-010</th><th></th><th></th><th>Collection Date :</th><th>7/2/97</th><th></th></td<>	I ah Sample Number :	87	0970-010			Collection Date :	7/2/97	
1.2-Dichbropropane         2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.1-Dichbropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.3-Dichbropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           2.2-Dichbropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.1-Dichbropropane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           1.3-Dichbropropene          2.5         2.5         60         ug/L         7/8/97         SW846 8260           trans-1.3-Dichbropropene          2.5         2.5         60         ug/L         7/8/97         SW846 8260           Fluorotrichloromethane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           Fluorotrichloromethane          2.5         2.5         60         ug/L         7/8/97         SW846 8260           Hexachorobutadiene          2.5         2.5         60         ug/L         7/8/97 </th <th></th> <th>40</th> <th>542270</th> <th></th> <th></th> <th>Matrix Type :</th> <th>METHANOL</th> <th></th>		40	542270			Matrix Type :	METHANOL	
1.2-Dichloropropane       < 25       25       60       ug/L       7/8/97       SW846 8260         1.3-Dichloropropane       < 25       25       60       ug/L       7/8/97       SW846 8260         2.2-Dichloropropane       < 25       25       60       ug/L       7/8/97       SW846 8260         2.2-Dichloropropane       < 25       25       60       ug/L       7/8/97       SW846 8260         1.1-Dichloropropane       < 25       25       60       ug/L       7/8/97       SW846 8260         1.1-Dichloropropane       < 25       25       60       ug/L       7/8/97       SW846 8260         Linas-1.3-Dichloropropane       < 25       25       60       ug/L       7/8/97       SW846 8260         Ethylbenzene       < 25       25       60       ug/L       7/8/97       SW846 8260         Isopropylbenzene       < 25       25       60       ug/L       7/8/97       SW846 8260         Isopropylbenzene       < 25       25       60       ug/L       7/8/97       SW846 8260         Naphthalane       < 25       25       60       ug/L       7/8/97       SW846 8260         1.1,2.2-Tetrachloroethane       < 25       25		40	513270					
1,1-Dichloroethane        25       25       60       ug/L       7/8/97       SW486 8260         1,3-Dichloropropane        25       25       60       ug/L       7/8/97       SW486 8260         2,2-Dichloropropane        25       25       60       ug/L       7/8/97       SW486 8260         1,1-Dichloropropane        25       25       60       ug/L       7/8/97       SW486 8260         1rans-1,3-Dichloropropane        25       25       60       ug/L       7/8/97       SW486 8260         Disopropylether        25       25       60       ug/L       7/8/97       SW486 8260         Ethylbenzene        25       25       60       ug/L       7/8/97       SW486 8260         Isopropyletnzene        25       25       60       ug/L       7/8/97       SW486 8260         Isopropylebnzene        25       25       60       ug/L       7/8/97       SW486 8260         Isopropylebnzene        25       25       60       ug/L       7/8/97       SW486 8260         Naphthalene        25       25       60       ug/L	1,2-Dichloropropane	<	25	25	60	ug/L	7/8/97	SW846 8260
1,3-Dichloropropane       <	1,1-Dichloroethane	<	25	25	60	ug/L	7/8/97	SW846 8260
2,2-Dichloropropane       <	1,3-Dichloropropane	<	25	25	60	ug/L	7/8/97	SW846 8260
1,1-Dichloropropene       <	2,2-Dichloropropane	<	25	25	60	ug/L	7/8/97	SW846 8260
cis-1,3-Dichloropropene       <	1,1-Dichloropropene	<	25	25	60	ug/L	7/8/97	SW846 8260
trans-1,3-Dichloropropene       <	cis-1,3-Dichloropropene	<	25	25	60	ug/L	7/8/97	SW846 8260
Disopropyl ether         <         25         25         60         ug/L         7/8/97         SW846 8260           Ethylbenzene         <	trans-1,3-Dichloropropene	<	25	25	60	ug/L	7/8/97	SW846 8260
Ethylbenzene         <         25         25         60         ug/L         7/8/97         SW846 8260           Fluorotichloromethane         <	Diisopropyl ether	<	25	25	60	ug/L	7/8/97	SW846 8260
Fluorotrichloromethane       <	Ethylbenzene	<	25	25	60	ug/L	7/8/97	SW846 8260
Hexachlorobutadiene       < 25	Fluorotrichloromethane	<	25	25	60	ug/L	7/8/97	SW846 8260
Isopropylbenzene       <	Hexachlorobutadiene	<	25	25	60	ug/L	7/8/97	SW846 8260
p-lsopropylloluene       <	Isopropylbenzene	<	25	25	60	ug/L	7/8/97	SW846 8260
Methylene chloride       <	p-Isopropyltoluene	<	25	25	60	ug/L	7/8/97	SW846 8260
Methyl-tert-butyl-ether       <	Methylene chloride	<	25	25	60	ug/L	7/8/97	SW846 8260
Naphthalene         <         25         25         60         ug/L         7/8/97         SW846 8260           n-Propylbenzene          25         25         60         ug/L         7/8/97         SW846 8260           Styrene          25         25         60         ug/L         7/8/97         SW846 8260           1,1,2-Tetrachloroethane          25         25         60         ug/L         7/8/97         SW846 8260           1,1,1,2-Tetrachloroethane          25         25         60         ug/L         7/8/97         SW846 8260           1,1,2-Tetrachloroethane          25         25         60         ug/L         7/8/97         SW846 8260           1,2,3-Trichlorobenzene          25         25         60         ug/L         7/8/97         SW846 8260           1,2,4-Trichlorobenzene          25         25         60         ug/L         7/8/97         SW846 8260           1,1,2-Trichloroethane          25         25         60         ug/L         7/8/97         SW846 8260           1,1,2-Trichloroethane          25         25         60         ug/L         7/8/97	Methyl-tert-butyl-ether	<	25	25	60	ug/L	7/8/97	SW846 8260
n-Propylbenzene       <	Naphthalene	<	25	25	60	ug/L	7/8/97	SW846 8260
Styrene       <	n-Propylbenzene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,1,2,2-Tetrachloroethane       <	Styrene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,1,1,2-Tetrachloroethane       <	1,1,2,2-Tetrachloroethane	<	25	25	60	ug/L	7/8/97	SW846 8260
Tetrachloroethene       <	1,1,1,2-Tetrachloroethane	<	25	25	60	ug/L	7/8/97	SW846 8260
Toluene       <	Tetrachloroethene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,2,3-Trichlorobenzene       <	Toluene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,2,4-Trichlorobenzene       <	1,2,3-Trichlorobenzene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,1,1-Trichloroethane       <	1,2,4-Trichlorobenzene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,1,2-Trichloroethane       <	1,1,1-Trichloroethane	<	25	25	60	ug/L	7/8/97	SW846 8260
1,2,4-Trimethylbenzene       <	1,1,2-Trichloroethane	<	25	25	60	ug/L	7/8/97	SW846 8260
Trichloroethene       <	1,2,4-Trimethylbenzene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,2,3-Trichloropropane       <	Trichloroethene	<	25	25	60	ug/L	7/8/97	SW846 8260
1,3,5-Trimethylbenzene       <	1,2,3-Trichloropropane	<	25	25	60	ug/L	7/8/97	SW846 8260
Vinyl chloride       < 25	1,3,5-Trimethylbenzene	<	25	25	60	ug/L	7/8/97	SW846 8260
Xylenes, -m, -p        25       25       60       ug/L       7/8/97       SW846 8260         Xylene, -o        25       25       60       ug/L       7/8/97       SW846 8260         4-Bromofluorobenzene       99       %Recov       7/8/97       SW846 8260         Dibromofluoromethane       98       %Recov       7/8/97       SW846 8260	Vinyl chloride	<	25	25	60	ug/L	7/8/97	SW846 8260
Xylene, -o     < 25     25     60     ug/L     7/8/97     SW846 8260       4-Bromofluorobenzene     99     %Recov     7/8/97     SW846 8260       Dibromofluoromethane     98     %Recov     7/8/97     SW846 8260	Xylenes, -m, -p	<	25	25	60	ug/L	7/8/97	SW846 8260
4-Bromofluorobenzene         99         %Recov         7/8/97         SW846 8260           Dibromofluoromethane         98         %Recov         7/8/97         SW846 8260	Xylene, -o	<	25	25	60	ug/L	7/8/97	SW846 8260
Dibromofluoromethane 98 %Recov 7/8/97 SW846 8260	4-Bromofluorobenzene		99			%Recov	7/8/97	SW846 8260
	Dibromofluoromethane		98			%Recov	7/8/97	SW846 8260



Project Name :	TARCO SOUTH PROPERTY		
Project Number :	EA97977	Client :	MIDWEST ENVIRONMENTAL
Field ID :	METH TRIP	Report Date :	7/18/97
Lab Sample Number :	870970-010	Collection Date :	7/2/97
WI DNR LAB ID :	40513270	Matrix Type :	METHANOL

Toluene-d8

96

%Recov

7/8/97

SW846 8260


## - Analytical Report -

Project Name :	TARCO SOUTH PROPERTY
Project Number :	EA97977
Field ID :	TRIP BLANK
Lab Sample Number :	870970-011
WI DNR LAB ID :	40513270

Client : MIDWEST ENVIRONMENTAL Report Date : 7/18/97 Collection Date : 7/2/97 Matrix Type : WATER

## **Organic Results**

EPA 8260 VOLATILE LIST- WATER			Prep Method: SW846 5030		0 Prep Date:	7/7/97	7/7/97 Analyst: JJB	
Analyte	F	Result	LOD	LOQ	EQL Unit	s Code	Analysis Date	Analysis Method
Benzene	<	0.41	0.41	1.3	ug/l		7/7/97	SW846 8260
Bromobenzene	<	0.29	0.29	0.92	ug/l	-	7/7/97	SW846 8260
Bromochloromethane	<	0.29	0.29	0.92	ug/l	_	7/7/97	SW846 8260
Bromodichloromethane	<	0.18	0.18	0.57	ug/l	-	7/7/97	SW846 8260
Bromoform	<	0.31	0.31	0.99	ug/L	-	7/7/97	SW846 8260
Bromomethane	<	0.30	0.30	0.96	ug/l	-	7/7/97	SW846 8260
s-Butylbenzene	<	0.23	0.23	0.73	ug/i	_	7/7/97	SW846 8260
t-Butylbenzene	<	0.24	0.24	0.76	ug/L	-	7/7/97	SW846 8260
n-Butylbenzene	<	0.31	0.31	0.99	ug/L	-	7/7/97	SW846 8260
Carbon tetrachloride	<	0.23	0.23	0.73	ug/L	-	7/7/97	SW846 8260
Chloroform	<	0.25	0.25	0.80	ug/L	-	7/7/97	SW846 8260
Chlorobenzene	<	0.27	0.27	0.86	ug/L	-	7/7/97	SW846 8260
Chlorodibromomethane	<	0.23	0.23	0.73	ug/L	-	7/7/97	SW846 8260
Chloroethane	<	0.25	0.25	0.80	ug/L		7/7/97	SW846 8260
Chloromethane	<	0.15	0.15	0.48	ug/L		7/7/97	SW846 8260
2-Chlorotoluene	<	0.27	0.27	0.86	ug/L		7/7/97	SW846 8260
4-Chlorotoluene	<	0.30	0.30	0.96	ug/L		7/7/97	SW846 8260
1,2-Dibromo-3-chloropropane	<	0.58	0.58	1.8	ug/L		7/7/97	SW846 8260
1,2-Dibromoethane	<	0.24	0.24	0.76	ug/L		7/7/97	SW846 8260
Dibromomethane	<	0.28	0.28	0.89	ug/L		7/7/97	SW846 8260
1,3-Dichlorobenzene	<	0.28	0.28	0.89	ug/L		7/7/97	SW846 8260
1,4-Dichlorobenzene	<	0.29	0.29	0.92	ug/L		7/7/97	SW846 8260
1,2-Dichloroethane	<	0.24	0.24	0.76	ug/L		7/7/97	SW846 8260
1,2-Dichlorobenzene	<	0.32	0.32	1.0	ug/L		7/7/97	SW846 8260
1,1-Dichloroethene	<	0.28	0.28	0.89	ug/L		7/7/97	SW846 8260
cis-1,2-Dichloroethene	<	0.28	0.28	0.89	ug/L		7)7/97	SW846 8260
Dichlorodifluoromethane	<	0.25	0.25	0.80	ug/L		7/7/97	SW846 8260
trans-1,2-Dichloroethene	<	0.25	0.25	0.80	ug/L		7/7/97	SW846 8260



1795 Industrial Drive Green Bay, WI 54302 920-469-2436 800-7-ENCHEM Fax: 920-469-8827

## - Analytical Report -

Project Name :	TA	RCO SOUTH	PROPERTY				
Project Number :	E/	97977			Client :	MIDWEST ENVIRONMEN	NTAL
Field ID :	TF	RIP BLANK			Report Date :	7/18/97	
Lab Sample Number :	87	0970-011			Collection Date :	7/2/97	
WI DNR LAB ID :	40	513270			Matrix Type :	WATER	
1,2-Dichloropropane	<	0.24	0.24	0.76	ug/L	7/7/97	SW846 8260
1,1-Dichloroethane	<	0.26	0.26	0.83	ug/L	7/7/97	SW846 8260
1,3-Dichloropropane	<	0.27	0.27	0.86	ug/L	7/7/97	SW846 8260
2,2-Dichloropropane	<	0.45	0.45	1.4	ug/L	7/7/97	SW846 8260
1,1-Dichloropropene	<	0.26	0.26	0.83	ug/L	7/7/97	SW846 8260
cis-1,3-Dichloropropene	<	0.48	0.48	1.5	ug/L	7/7/97	SW846 8260
trans-1,3-Dichloropropene	<	0.45	0.45	1.4	ug/L	7/7/97	SW846 8260
Diisopropyl ether	<	0.43	0.43	1.4	ug/L	7/7/97	SW846 8260
Ethylbenzene	<	0.23	0.23	0.73	ug/L	7/7/97	SW846 8260
Fluorotrichloromethane	<	0.29	0.29	0.92	ug/L	7/7/97	SW846 8260
Hexachlorobutadiene	<	0.31	0.31	0.99	ug/L	7/7/97	SW846 8260
Isopropylbenzene	<	0.27	0.27	0.86	ug/L	7/7/97	SW846 8260
p-Isopropyltoluene	<	0.22	0.22	0.70	ug/L	7/7/97	SW846 8260
Methylene chloride	<	0.22	0.22	0.70	ug/L	7/7/97	SW846 8260
Methyl-tert-butyl-ether	<	0.53	0.53	1.7	ug/L	7/7/97	SW846 8260
Naphthalene	<	0.66	0.66	2.1	ug/L	7/7/97	SW846 8260
n-Propylbenzene	<	0.27	0.27	0.86	ug/L	7/7/97	SW846 8260
Styrene	<	0.19	0.19	0.61	ug/L	7/7/97	SW846 8260
1,1,2,2-Tetrachloroethane	<	0.46	0.46	1.5	ug/L	7/7/97	SW846 8260
1,1,1,2-Tetrachloroethane	<	0.21	0.21	0.67	ug/L	7/7/97	SW846 8260
Tetrachloroethene	<	0.27	0.27	0.86	ug/L	7/7/97	SW846 8260
Toluene	<	0.28	0.28	0.89	ug/L	7/7/97	SW846 8260
1,2,3-Trichlorobenzene	<	0.32	0.32	1.0	ug/L	7/7/97	SW846 8260
1,2,4-Trichlorobenzene	<	0.48	0.48	1.5	ug/L	7/7/97	SW846 8260
1,1,1-Trichloroethane	<	0.27	0.27	0.86	ug/L	7/7/97	SW846 8260
1,1,2-Trichloroethane	<	0.30 ′	0.30	0.96	ua/L	7/7/97	SW846 8260
1,2,4-Trimethylbenzene	<	0.30	0.30	0.96	ug/L	7/7/97	SW846 8260
Trichloroethene	<	0.20	0.20	0.64	ug/L	7/7/97	SW846 8260
1,2,3-Trichloropropane	<	0.48	0.48	1.5	ug/L	7/7/97	SW846 8260
1,3,5-Trimethylbenzene	<	0.25	0.25	0.80	ua/L	7/7/97	SW846 8260
Vinyl chloride	<	0.23	0.23	0.73	ug/L	7/7/97	SW846 8260
Xvlenes, -m, -p	<	0.51	0.51	1.6	ug/l	7/7/97	SW846 8260
Xvleneo	<	0.28	0.28	0.89	ug/L	7/7/07	SW846 8260
4-Bromofluorobenzene	•	101	0.20	0.00	%Recov	7/7/07	SIN/846 9260
Dibromofluoromethane		96			%Recov	7/7/07	SW846 8260
-is on on on on other and		50			10110000	11191	000040 0200



## - Analytical Report -

Project Name :	TARCO SOUTH PROPERTY		
Project Number :	EA97977	Client :	MIDWEST ENVIRONMENTAL
Field ID :	TRIP BLANK	Report Date :	7/18/97
Lab Sample Number :	870970-011	Collection Date :	7/2/97
WI DNR LAB ID :	40513270	Matrix Type :	WATER

Toluene-d8

98

%Recov

7/7/97

SW846 8260

Company Name: <u>MIDWEST ENVIRONMENTAL</u> Branch or Location: <u>La Crosse</u> , WT.	EN		<ul> <li>1241 Bellevue St., Suite 9 Green Bay, WI 54302</li> <li>414-469-2436 • 1-800-736-2436 FAX 414-469-8827</li> </ul>	802 Deming Way Madison, WI 53717 608-827-5501 • 1-888-536-2436 Fax: 608-827-5503	1423 N. 8th Street., Suite 122 Superior, WI 54880 715-392-5844 • 1-800-837-8238 FAX 715-392-5843
Project Contact: <u>JA SON HEREST</u>			CTODY	Page	of 1
Telephone: (608) 784-5688		IN OF CU	<b>510D1</b> 792	. 0 P.O. # <u>-</u>	Quote #
Project Number: <u>EA 97977</u>			,	Mail Report T	O: JASON HERBST
Project Name: TARCO SOUTH PROPERTY		LTERED? (YES/NO)	NO NO	Company: MIL	WEST ENVIRONMENTAL
Project Location: ONALASK.4, WI	-			Address: 123 N	RESE. WI 54601
Sampled By (Print): JASON HIRBST/ Bernie Schot	JE.		50	Invoice To: (SAME)	
Regulatory Program ( <i>circle</i> ): UST RCRA CLP SDWA NPDES/WPDES CAA NR			No to the	Company:	
Other <u>ERP</u>	=	5° 5° 50° 50°		Address:	· · · ·
(En Chem will not confirm unless otherwise instructed.)	J. H.	3/53/2/	5 B5 Mail	Invoice To: JASON HERBST	<i>c.</i>
FIELD ID SAMPLE DESCRIPTION COLI DATE		20 / X × V	FIELD MATRI	GOOD TOTAL COMMEN COND. BOTTLES	BORATORY USE ONLY TS LABORATORY NUMBER
P-1 4'-6' 430/9,	T 11:40	×	5012	1-502	001
P-1 75'-76' 6/30/9	6:30 X X		5012	1-202/m	002
P-1 GW 6/394;	7;#5		6 ju	1-4 3.40m	003
P-2 4-6 7/1/97	8:59	×	Soil	1-502	004
P-3 4-6 7/1/97	9:12 AM	X .	Soil		005
P-4 84-85 71/1/97	$\frac{12:37}{pm} \times \times$		soil	1-202/M	006
P-4 GW 7/1/97	2:03 pm		Gw	3-40m 1	007
P-5 68-69 1/2/9	411 X X		Soi	1-2021m	008
P-5 GW (12/97	- 10.51 - AM		GW	3-40m1	
*Meth RIP	· ·			- 2006 - 2000 - 2000 - 2000 - 2000 - 2006 - 2006 - 2007 - 2007 - 2007 - 2007 - 2007 - 2007 - 2007 - 2007 - 2007	010
RIP Blank				Image: State	011
W Alle A line I alle					
*Preservation Code     Belinquished By:       *A=None     B=HCL     C=H2SO4       D=HN03     E=EnCore     F=Methanol**       G=NaOH     O=Other (Indicate)     General and	Should -	Date/Time: 1/2/97 4:30 pm Date/Time: 212/97 4:45	Received By: H. R.A. Received By: Den U.P.S	Date/Time: Date/Time:	En Chem Project No. 870970 Sample Receipt Temp. RAL
**If not using En Chem's methanol, indicate volume of methanol added and mark the appropriate samples.	5808490	Date/Time:	Received By: Received By (En Chem),	Date/Time: Date/Time: 7/3/97 ///17)	Sample Receipt pH (Wev/Metals)