# APPENDIX D

ARCADIS

**Appendix D**

Asbestos Report and Abatement Documentation

ONYX

April 7, 2005

Mr. Ben Verburg

Arcadis
126 N. Jefferson Street, Suite 400
Milwaukee, WI 53202

**Re: Asbestos Assessment/ Supplemental Inspection & Bulk Sampling**
**Former Milwaukee Die Cast Facility, 4132 N. Holton St. Milwaukee, WI**
**Onyx Project No. 490440C.05.064**

Dear Mr. Verburg,

**Onyx Special Services, Inc.** (Onyx) has completed its assessment and supplemental inspection to identify asbestos-containing materials at the "Former Milwaukee Die Cast Facility" located on N. Holton Street in Milwaukee, WI. Onyx was contracted to perform the asbestos assessment/inspection and bulk sampling by Arcadis in order to help provide information to be used for future plans for the facility. An October, 2004 report by Target Environmental Services, was provided for Onyx' use in this assessment report.

## Scope of Work

Samples were collected of potential asbestos-containing building materials (ACBMs) to provide information regarding potential asbestos related impacts for the building. The Target Environmental, report was reviewed with many of the bulk sample results accepted as solid data. Supplementary bulk samples were retrieved by Onyx under the direction of Arcadis to verify existing results, as well as to help determine whether the potential asbestos impacts have increased. Current Wisconsin Department of Natural Resources (WDNR) regulations require an inspection prior to renovation or demolition of a facility.

## Observations

On March 28, 2005, Greg Marenda, Wisconsin Asbestos Inspector License No. AII-00726 performed a building walkthrough to assess the general condition of the known ACM (Outlined from the previous Target Env. Report) and perform bulk sampling. Return visits were made on March 30, April 1, and April 5, 2005 to complete any visual observations and supplementary bulk sampling. One Hundred One (101) bulk samples representing Forty One (41) building materials were retrieved

**Onyx Special Services, Inc.**
N104 W13275 Donges Bay Road, P.O. Box 367, Germantown, WI 53022-0367
Phone: 262 236 8130 • Fax: 262 236 8140

VEOLIA Environment

from the building. Materials bulk sampled include but not limited too: Built-Up roofing's, and associated flashings and caulks, exterior caulks, window glazing, as well as some interior building materials such as 4" vinyl base w/ mastic, paneling adhesive, fire stop mortar, "Weldwood" office partition, textured warehouse ceiling, and carpet mastic.

Regulations recommend three negative sample results to prove a material as non-asbestos containing; only one is required to prove a material as asbestos containing. When appropriate, three samples of each type of material was collected and analyzed sequentially (the second and third samples of each type of material were not analyzed if the first or second sample revealed positive results). Based on either very large or small quantities of material, more or less samples may be collected.

Samples containing trace amounts of asbestos were not submitted for Point Count analysis to confirm the material as asbestos or non-asbestos. Confirmation point count samples & analysis are recommended since it could impact the removal of the Industrial windows in the Die Cast (East) Shop, and the windows in the West Office area. EPA regulations (40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule) specifically require additional analysis using Point Count methods to determine asbestos content for all friable materials testing less than 10%. Typically, materials revealing asbestos in quantities greater than 2% are not submitted for Point Count analysis, as it is unlikely these materials will deviate much from the PLM concentration.

Twenty (20) settled dust samples were also taken from random areas of the floor in order to help determine if significant fiber release has occurred. It should be noted that these settled dust samples were not taken from the 2 areas of obvious pipe insulation debris in the West Die Cast portion of the facility, but from other areas in order to determine if asbestos fiber migration had occurred.

The samples were submitted for analysis to Micro-Analytical Inc., a laboratory accredited by the National Institute of Standards & Technology, National Voluntary Laboratory Accreditation Program (NVLAP). The type and quantity (percentage) of asbestos were identified by Polarized Light Microscopy (PLM) following preparation and identification protocols recommended by the National Institute for Occupational Safety and Health (NIOSH) and the National Voluntary Laboratory Accreditation Program (NVLAP).

**Results**

The following materials were found to contain asbestos from this most recent round of bulk sampling:

| | | |
|---|---|---|
| • Built-Up Roofing | - Office Roof (A) (3,900 S.F.) | - Category I Nonfriable |
| • Flashing | - Office Roof (A) (360 S.F.) | - Category I Nonfriable |
| • Parapet Cap Caulk | - Office Roof (A) (421 L.F. or 12 S.F.) | - Category I Nonfriable |
| • Grey & Black Caulk | - Office Roof (A) (285 L.F. or 8 S.F.) | - Category I Nonfriable |
| • Built Up Roofing | - South Roof (B) (21,600 S.F.) | - Category I Nonfriable |
| • Raised Flashing | - South Roof (B) (1,317 S.F.) | - Category I Nonfriable |
| • Flat Flashing | - South Roof (B) (525 S.F.) | - Category I Nonfriable |
| • Transite Stacks | - South Roof (B) (7 L.F.) | - Category I Nonfriable |
| • Flashing | - NW Roof (C) (1,026 S.F.) | - Category I Nonfriable |
| • Black Duct Caulk | - NW Roof (C) (1 S.F.) | - Category I Nonfriable |
| • Transite Fascia | - W, S, E Elevations (576 S.F.) | - Category II Nonfriable |
| • Roof Vent Flashing | - SE Roof (D) (360 S.F.) | - Category I Nonfriable |
| • Built-Up Roofing | - SE Roof (D) (12,000 S.F.) | - Category I Nonfriable |
| • Flashing | - SE Roof (D) (1,260 S.F.) | - Category I Nonfriable |
| • Black Roof Duct Mat'l | - SE Roof (D) (175 S.F.) | - Category I Nonfriable |
| • Roof Vent Flashing | - NE Roof (E) (240 S.F.) | - Category I Nonfriable |
| • Built-Up Roofing | - NE Roof (E) (10,500 S.F.) | - Category I Nonfriable |
| • Flashing | - NE Roof (E) (960 S.F.) | - Category I Nonfriable |
| • Transite Cooling Tower | - NE Roof (E) (210 S.F.) | - Category II Nonfriable |
| • *Window Glaze,N & NW | - W. Warehouse, (28 Windows, 28 SF) | - RACM |
| • *Window Caulk | - W. Offices (36 Windows, 13 S.F.) | - Category I Nonfriable |
| • Window Caulk | - North Office Entrance (1 Window, 1 S.F.) | - Category I Nonfriable |
| • Small Window Caulk | - Lower Cafeteria, Locker Rms (22 Windows, 22 S.F.) | - RACM |
| • Industrial Window Caulk | - Ext. South Elevation (200 L.F., 5 S.F.) | - Category I Nonfriable |
| • Brown Carpet Mastic | - West Offices (3,000 S.F.) Over Floor Tile | - Category I Nonfriable |
| • Personnel Door Caulk | - Exterior Perimeter (9 Doors, 4 S.F.) | - Category I Nonfriable |
| • Small Vent Caulk | - Ext. East Elevation (6 vents, 3 S.F.) | - Category I Nonfriable |
| • Transite Debris | - NE Roof at N. edge(100 S.F.) | - Category I Nonfriable |

Note: Asterisk (*) denotes that the material has "Trace" amount of asbestos present

Materials that were previously sampled in 2004 by Target Environmental (which were not re-sampled) include but are not limited to:

| **Found to Contain Asbestos** | | **Found Not To Contain Asbestos** | |
|---|---|---|---|
| Pipe Insulation | Boiler Insulation | 12" Ceiling Tile | Sheet Rock |
| Boiler Gaskets | Pipe Ftg Insulation | 24"x 48" ceiling Tile | Plaster |
| Transite | Black Duct Tar | 12" Wood Floor Tile w/ Mastic | |
| 9" Red Floor Tile | 12" Tan Floor Tile | Block Wood Floor w/ Tar Adhesive | |
| 12" beige floor tile | Black Floor Tile Mastic | Black Vinyl Base w/ Adhesive | |
| | | 12" Black Floor Tile w/ Yellow Mastic | |
| | | 12" Tan Floor Tile w/ Yellow Mastic | |
| | | Painted Floor | |
| | | Cement Floor Patch | |
| | | Tan Linoleum | |

**Additional Information**

Please refer to the 2004 Target Environmental Services report for additional details of asbestos containing materials and sample data. The known or assumed ACM can be summarized in the following list. Please note that the quantities of ACM outlined are based on Onyx' assessment and may or may not match the Target report.

- Boiler Insulation (Boiler Rm, 210 S.F.) - RACM
- Boiler Stacks (Transite) (Boiler Rm, 20 L.F.) - Category II Nonfriable
- Boiler Door Insulation (Assumed) (Boiler Rm, 56 S.F.) - Category II Nonfriable
- Boiler Gasket Material (Assumed) (Boiler Rm, 75 L.F.) - Category I Nonfriable
- Tank Insulation (Boiler Rm, 130 S.F.) - RACM
- Pipe Insulation & associated ftgs (Throughout, 1,560 L.F.) - RACM
- Pipe Ftgs Insulation on fiberglass (Scattered, 30 ftgs) - RACM
- 9" Red Floor Tile & Associated Mastic (Office, 2,200 S.F.) - Category I Nonfriable
- 12" Tan Floor Tile & Mastic (Office & Rest Rms, 310 S.F.) - Category I Nonfriable
- Transite Ceiling (NW Vestibule, 12 S.F.) - Category II Nonfriable
- Mastic from 12" Beige Floor Tile (Cafet. Area, 1,475 S.F.) - Category I Nonfriable
- Black Duct Tar (Office & Rest Rms) - Category I Nonfriable

**General Recommendations**

- If it is decided that the structure will be demolished, Category I non-friable materials in good condition typically can be left in the building during demolition, but should be abated or segregated if the demolition contractor plans to recycle building materials.
- If it is decided that the building is to be renovated, OSHA requires that trained asbestos personnel be utilized to properly handle any asbestos containing materials that may need disturbance.
- Asbestos fibers were detected in 2 settled dust samples. The first one was in the East Die Casting Area (In an area away from 2 pipe insulation debris sightings, and another sample from the boiler room floor. Pre-Cleaning by HEPA vacuuming by asbestos trained & certified personnel is recommended.
- Building materials sampled and quantified in this report are limited to the building materials reasonably visible and accessible to the inspector at the of the survey time.
- A copy of this report should be provided to the Owner and any renovation/demolition contractor prior to the appropriate activities.
- Since quantities of asbestos materials do not match between Onyx' recent facility walkthrough and the 2004 Target Environmental report, it is recommended that abatement contractors verify site conditions and ACM quantities prior to providing cost estimates.

**Warranty**

The consulting services performed by Integrity personnel for this project have been conducted in a manner consistent with the degree and care technical skill appropriately exercised by asbestos consulting professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgement and are generally based upon available information and technically accepted practices at the present time and location. Beyond this, no warranty is implied or expressed.

Included in this report are copies of the laboratory analytical results, chain of custody forms and copies of certifications. Onyx thanks you for the opportunity to provide our services. If you have any questions or concerns please feel free to contact us at (262) 236-8130.

Sincerely,

**Onyx Special Services, Inc.**

Gregory J. Marenda

Gregory J. Marenda

Sr. Project Manager

# BULK SAMPLE SUMMARY

## FORMER MILWAUKEE DIE CASTING FACILITY
## 4132 North Holton Ave., Milwaukee, WI

| SAMPLE # | MATERIAL DESCRIPTION | LOCATION | RESULT |
|---|---|---|---|
| **01-A** | **"Built-Up" Roofing (BUR)** | **Roof A, Office Roof NE Section** | **Positive 6% Chr** |
| 01-B | "Built-Up" Roofing (BUR) | Roof A, Office Roof Middle of W. Half | Not Analyzed "A" Sample Pos |
| 01-C | "Built-Up" Roofing (BUR) | Roof A, Office Roof SE Section | Not Analyzed "A" Sample Pos |
| **02-A** | **Roof Flashing** | **Roof A, Office Roof N. Edge of E. Corner** | **Positive 15% Chr** |
| 02-B | Roof Flashing | Roof A, Office Roof West Edge | Not Analyzed "A" Sample Pos |
| 02-C | Roof Flashing | Roof A, Office Roof South Edge | Not Analyzed "A" Sample Pos |
| **03-A** | **Parapet Cap Caulk** | **Roof A, Office Roof North Cap** | **Positive 2% Chr** |
| 03-B | Parapet Cap Caulk | South Roof (B) West Cap | Not Analyzed "A" Sample Pos |
| 03-C | Parapet Cap Caulk | NW Roof (C) West Cap | Not Analyzed "A" Sample Pos |
| **04-A** | **Grey & Black Caulk at top of flashing** | **Roof A, Office Roof North Wall** | **Grey – POS 5% Black POS 10%** |
| 04-B | Grey & Black Caulk at top of flashing | Roof B, South Roof West Edge | Not Analyzed "A" Sample Pos |
| 04-C | Grey & Black Caulk at top of flashing | Roof C, NW Roof South Edge | Not Analyzed "A" Sample Pos |
| **05-A** | **"Built-Up" Roofing (BUR)** | **Roof B, South Roof above Box Warehouse** | **Positive 3% Chr** |
| 05-B | "Built-Up" Roofing (BUR) | Roof B, South Roof above Box Warehouse | Not Analyzed "A" Sample Pos |
| 05-C | "Built-Up" Roofing (BUR) | Roof B, South Roof above West Warehouse | Not Analyzed "A" Sample Pos |
| **06-A** | **Raised Flashing** | **Roof B, South Roof above Box Warehouse** | **Positive 9% Chr** |
| 06-B | Raised Flashing | Roof B, South Roof above West Warehouse | Not Analyzed "A" Sample Pos |
| 06-C | Raised Flashing | Roof B, South Roof above West Warehouse | Not Analyzed "A" Sample Pos |
| **07-A** | **Flat Flashing** | **Roof B, South Roof South Edge** | **Positive 15% Chr** |
| 07-B | Flat Flashing | Roof B, South Roof South Edge | Not Analyzed "A" Sample Pos |
| 07-C | Flat Flashing | Roof B, South Roof South Edge | Not Analyzed "A" Sample Pos |
| 08-A | Skylight Caulking | Roof B, South Roof above Box Warehouse | Negative |
| 08-B | Skylight Caulking | Roof B, South Roof above Box Warehouse | Negative |
| 08-C | Skylight Caulking | Roof B, South Roof above Box Warehouse | Negative **Blk Layer, POS** |

| SAMPLE # | MATERIAL DESCRIPTION | LOCATION | RESULT |
|---|---|---|---|
| **09-A** | **Transite Stack** | **Roof B, South Roof SW Section** | **POS –20% Chr 20% Croc** |
| 09-B | Transite Stack | Roof B, South Roof SW Section | Not Analyzed "A" Sample Pos |
| 09-C | Transite Stack | Roof B, South Roof SW Section | Not Analyzed "A" Sample Pos |
| 10-A | "Built-Up" Roofing (BUR) | Roof C, NW Roof West Section | Negative |
| 10-B | "Built-Up" Roofing (BUR) | Roof C, NW Roof North Section | Negative |
| 10-C | "Built-Up" Roofing (BUR) | Roof C, NW Roof SE Section | Negative |
| **11-A** | **Roof Flashing** | **Roof C, NW Roof East Edge** | **POS – 10% Chr** |
| 11-B | Roof Flashing | Roof C, NW Roof North Edge | Not Analyzed "A" Sample Pos |
| 11-C | Roof Flashing | Roof C, NW Roof West Edge | Not Analyzed "A" Sample Pos |
| **12-A** | **Black Caulk** | **NW Roof, At East wall, On Duct** | **POS – 3% Chr** |
| **13-A** | **Transite Roof Fascia** | **Roof B, South Roof East Edge to Die Cast** | **POS – 30% Chr** |
| 13-B | Transite Roof Fascia | Roof B, South Roof East Edge to Die Cast | Not Analyzed "A" Sample Pos |
| 13-C | Transite Roof Fascia | Roof B, South Roof East Edge to Die Cast | Not Analyzed "A" Sample Pos |
| **14-A** | **Rooftop Vent Unit Flashing** | **Roof D, SE Roof Above Die Cast** | **POS – 15% Chr** |
| 14-B | Rooftop Vent Unit Flashing | Roof D, SE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| 14-C | Rooftop Vent Unit Flashing | Roof D, SE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| **15-A** | **"Built-Up" Roofing (BUR)** | **Roof D, SE Roof Above Die Cast** | **POS – 3% Chr** |
| 15-B | "Built-Up" Roofing (BUR) | Roof D, SE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| 15-C | "Built-Up" Roofing (BUR) | Roof D, SE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| **16-A** | **Roof Flashing** | **Roof D, SE Roof Above Die Cast** | **POS – 10% Chr** |
| 16-B | Roof Flashing | Roof D, SE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| 16-C | Roof Flashing | Roof D, SE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| 17-A | Black Roof Duct Material | Roof D, SE Roof Above Die Cast | Negative |
| 17-B | Black Roof Duct Material | Roof D, SE Roof Above Die Cast | Negative |
| **17-C** | **Black Roof Duct Material** | **Roof D, SE Roof Above Die Cast** | **POS – 3% Chr** |
| **18-A** | **Black Roof Duct Material- South Seam** | **Roof D, SE Roof Above Die Cast** | **POS – 15% Chr** |

| SAMPLE # | MATERIAL DESCRIPTION | LOCATION | RESULT |
|---|---|---|---|
| **19-A** | **Rooftop Vent Unit Flashing** | **Roof E, NE Roof Above Die Cast** | **POS – 30% Chr** |
| 19-B | Rooftop Vent Unit Flashing | Roof E, NE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| 19-C | Rooftop Vent Unit Flashing | Roof E, NE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| 20-A | "Built-Up" Roofing (BUR) | Roof E, NE Roof Above Die Cast | Negative |
| **20-B** | **"Built-Up" Roofing (BUR)** | **Roof E, NE Roof Above Die Cast** | **POS – 3% Chr** |
| 20-C | "Built-Up" Roofing (BUR) | Roof E, NE Roof Above Die Cast | Not Analyzed "B" Sample Pos |
| **21-A** | **Roof Flashing** | **Roof E, NE Roof Above Die Cast** | **POS – 10% Chr** |
| 21-B | Roof Flashing | Roof E, NE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| 21-C | Roof Flashing | Roof E, NE Roof Above Die Cast | Not Analyzed "A" Sample Pos |
| **22-A** | **Transite** | Roof E, NE Roof **Debris Pile on North** | **POS 20% Chr** |
| 22-B | Transite | Roof E, NE Roof Cooling Tower | Not Analyzed "A" Sample Pos |
| 22-C | Transite | Roof E, NE Roof Cooling Tower | Not Analyzed "A" Sample Pos |
| 23-A | Weldwood Office Partition | West Office Area North Panels | Negative |
| 23-B | Weldwood Office Partition | West Office Area North Panels | Negative |
| 23-C | Weldwood Office Partition | West Office Area North Panels | Negative |
| 24-A | Paneling Adhesive | West Warehouse Office | Negative |
| 24-B | Paneling Adhesive | West Warehouse Office | Negative |
| 24-C | Paneling Adhesive | West Warehouse Office | Negative |
| 25-A | Cementicious Fire Stop Mat'l | West Office Area East Wall | Negative |
| 26-A | Industrial Window Glazing | West Warehouse S. Wall by S. Dock | Negative |
| 26-B | Industrial Window Glazing | Die Cast Shop East Wall | Negative |
| 26-C | Industrial Window Glazing | Die Cast Shop South Wall | Negative |
| 27-A | Window Glaze | West Office Area NW Entrance | Negative |
| **28-A** | **Window Glaze** | **West Warehouse North Wall** | **Trace Chr** |
| 29-A | 4" Brown Vinyl Base w/Mastic | West Warehouse Office | Negative Br Mastic- Neg |
| 29-B | 4" Brown Vinyl Base w/Mastic | West Warehouse Office | Negative Br Mastic- Neg |

| SAMPLE # | MATERIAL DESCRIPTION | LOCATION | RESULT |
|---|---|---|---|
| 29-C | 4" Brown Vinyl Base w/Mastic | West Warehouse Office | Negative |
| **30-A** | **Window Caulk** | **Exterior, West Offices West Elevation** | **Trace Chr** |
| **30-B** | **Window Caulk** | **Exterior, West Offices West Elevation** | **Trace Chr** |
| **30-C** | **Window Caulk** | **Exterior, West Offices South Elevation** | **Trace Chr** |
| **31-A** | **Window Caulk** | **Exterior, West Offices North Entrance** | **POS 2% Chr** |
| 31-B | Window Caulk | Exterior, West Offices North Entrance | Not Analyzed "A" Sample Pos |
| **32-A** | **Small Window Caulk** | **Ext. Lower Office Store Rm by Cafeteria** | **POS – 10% Chr** |
| 32-B | Small Window Caulk | Ext. Lower Office Area Cafeteria | Not Analyzed "A" Sample Pos |
| 32-C | Small Window Caulk | Ext. Lower Office Area Men's Locker Room | Not Analyzed "A" Sample Pos |
| **33-A** | **Industrial Window Caulk** | **S. Elevation, W. Wall Of West Warehouse** | **POS – 2% Chr** |
| 33-B | Industrial Window Caulk | S. Elevation, W. Wall Of West Warehouse | Not Analyzed "A" Sample Pos |
| 33-C | Industrial Window Caulk | Die Cast, East of South Dock | Not Analyzed "A" Sample Pos |
| 34-A | West Warehouse Window Caulk | Ext West Elevation, North Window | Negative |
| 34-B | West Warehouse Window Caulk | Ext West Elevation, North Window | Negative |
| 35-A | Building Caulk | West Elevation, North of Offices | Negative |
| 35-B | Building Caulk | West Elevation, North of Offices | Negative |
| 36-A | Vent Opening Caulk | North Elevation, 2nd vent from NW Corner | Negative |
| 36-B | Vent Opening Caulk | North Elevation, 7th vent from NW Corner | Negative |
| **37-A** | **Brown Carpet Mastic** | **Office Area** | **POS – 7% Chr** |
| 37-B | Brown Carpet Mastic | Office Area | Not Analyzed "A" Sample Pos |
| **38-A** | **Personnel Door Caulk** | **South Elevation, By Loading Dock** | **POS – 4% Chr** |
| 39-A | Overhead Door Caulk | North Elevation | Negative |
| **40-A** | **Small Vent Caulk** | **East Elevation** | **POS – 5% Chr** |
| 41-A | Textured Concrete Ceiling | West Warehouse, North Section | Negative |
| 41-B | Textured Concrete Ceiling | West Warehouse, North Section | Negative |
| | | | |

| SAMPLE # | MATERIAL DESCRIPTION | LOCATION | RESULT |
|---|---|---|---|
| 50-A | Settled Dust From Floor | East Die Cast Floor, NW Area, Rt of Ent. | Asb. Not Present |
| 51-A | Settled Dust From Floor | East Die Cast Floor, N Central Area, 2nd Col | Asb. Not Present |
| **52-A** | **Settled Dust From Floor** | **East Die Cast Floor, N Corner of East Windows** | **Chrysotile Asb. Present** |
| 53-A | Settled Dust From Floor | East Die Cast Floor, NW Section | Asb. Not Present |
| 54-A | Settled Dust From Floor | East Die Cast Floor, Center Section | Asb. Not Present |
| 55-A | Settled Dust From Floor | East Die Cast Floor, SW Area | Asb. Not Present |
| 56-A | Settled Dust From Floor | East Die Cast Floor, SE Corner of Windows | Asb. Not Present |
| 57-A | Settled Dust From Floor | East Die Cast Floor, Under Mezz. - SE | Asb. Not Present |
| 58-A | Settled Dust From Floor | East Die Cast Floor, Compressed Air Room | Asb. Not Present |
| 59-A | Settled Dust From Floor | West Warehouse Floor, Inside North OH Door | Asb. Not Present |
| 60-A | Settled Dust From Floor | West Warehouse Floor, By Warehouse Office | Asb. Not Present |
| 61-A | Settled Dust From Floor | West Warehouse Floor, East Section | Asb. Not Present |
| 62-A | Settled Dust From Floor | West Warehouse Floor, S. of Warehouse Office | Asb. Not Present |
| 63-A | Settled Dust From Floor | West Warehouse Floor, S. Dock, W. Wall | Asb. Not Present |
| 64-A | Settled Dust From Floor | West Warehouse Floor, Under Catwalk Grate | Asb. Not Present |
| 65-A | Settled Dust From Floor | West Warehouse Floor, OH Door to Die Cast | Asb. Not Present |
| 66-A | Settled Dust From Floor | West Warehouse Floor, Near East Wall | Asb. Not Present |
| 67-A | Settled Dust From Floor | West Warehouse Floor, Outside Boiler Room | Asb. Not Present |
| **68-A** | **Settled Dust From Floor** | **Boiler Room Floor (Composite)** | **Chrysotile Asb. Present** |
| 69-A | Settled Dust From Floor | Mens Locker Room (Composite) | Asb. Not Present |

# Laboratory Reports

'ICRO ANALYTICAL, INC.
1521 West North Avenue
ilwaukee, WI 53226
(800)771-9820 (414)771-0855
ax: (414)771-6570



NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71790
Name 4904AOC.05.064 - Milw Die Cast
Received: 03/29/05
Analyzed: 04/04/05
Analyst Jon Yakish
Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 01A | 6% Chry | Black Resinous<br>34% Ce 60% Pt MLM Qu Cal Tar |
| 02A | 15% Chry | Black Resinous<br>25% Ce 60% Pt MLM Qu Cal Tar |
| 03A | 2% Chry | Gray Resinous<br>98% Pt MLM Qu Cal Rs |
| 04A | 5% Chry | Gray Resinous<br>95% Pt MLM Qu Cal Rs |
| 04A II | 10% Chry | Black Resinous<br>90% Pt MLM Qu Cal Tar |
| 05A | 3% Chry | Black Resinous<br>5% Ce 92% Pt MLM Qu Cal Tar |
| 06A | 9% Chry | Black Resinous<br>10% Fg 56% Pt MLM Qu Cal Tar<br>25% Ce |
| 07A | 15% Chry | Black Resinous<br>3% Fg 65% Pt MLM Qu Cal Tar<br>17% Ce |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Chry: | Chrysotile | Fg: | Fibrous Glass | Ver: | Vermiculite | PL-M: | Paint Like Material |
| Amos: | Amosite | Ce: | Cellulose | Per: | Perlite | MLM: | Mixed Limestone Material |
| Croc: | Crocidolite | Syn: | Synthetic Fiber | Gyp: | Gypsum | Qu: | Quartz |
| Act: | Actinolite | H: | Hair | Gs: | Glass Shot | Cal: | Calcite |
| Trem: | Tremolite | Sc: | Silicate | Pt: | Particulate | Rs: | Resinous Material |
| Ath: | Anthophyllite | | | | | De: | Diatomaceous Earth |

Test method: EPA/600/R 93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570



NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71790
Name 4904AOC.05.064 - Milw Die Cast
Received: 03/29/05
Analyzed: 04/04/05
Analyst Jon Yakish
Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 08A | None Detected | Gray Resinous<br>100% Pt MLM Rs |
| 08B | None Detected | Multi Colored Resinous<br>100% Pt MLM Qu Cal Rs |
| 08C | None Detected | Gray Resinous<br>100% Pt MLM Qu Cal Rs |
| 08C II | 20% Chry | Black Resinous<br>5% Ce 75% Pt MLM Qu Cal Tar |
| 09A | 20% Chry<br>20% Croc | Gray Compact<br>60% Pt MLM Qu |
| 10A | None Detected | Black Resinous<br>65% Ce 35% Pt MLM Qu Tar |
| 10B | None Detected | Black Resinous<br>60% Ce 40% Pt MLM Qu Tar |
| 10C | None Detected | Black Resinous<br>50% Ce 50% Pt MLM Qu Cal Tar |

Chry: Chrysotile
Amos: Amosite
Croc: Crocidolite
Act: Actinolite
Tremo: Tremolite
Anth: Anthophyllite
Fg: Fibrous Glass
Ce: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate
Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
Gs: Glass Shot
Pt: Particulate
Pl. M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rs: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R 93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

MICRO ANALYTICAL, INC.
1521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570



NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71790
Name 4904AOC.05.064 - Milw Die Cast
Received: 03/29/05
Analyzed: 04/04/05
Analyst Jon Yakish
Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 11A | 10% Chry | Black Resinous<br>25% Ce 65% Pt MLM Qu Cal Tar |
| 12A | 3% Chry | Black Resinous<br>97% Pt MLM Qu Cal Rs |
| 13A | 30% Chry | Gray Compact<br>70% Pt MLM Qu Cal |
| 14A | 15% Chry | Black Resinous<br>10% Fg 75% Pt MLM Qu Cal Tar |
| 15A | 3% Chry | Black Resinous<br>10% Ce 87% Pt MLM Qu Cal Tar |
| 16A | 10% Chry | Black Resinous<br>10% Fg 75% Pt MLM Qu Cal Tar<br>5% Ce |
| 17A | None Detected | Black Resinous<br>8% Fg 75% Pt MLM Qu Cal Tar<br>17% Syn |

Chry: Chrysotile
Amos: Amosite
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite

Fg: Fibrous Glass
Ce: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate

Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
GS: Glass Shot
Pt: Particulate

PL-M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rs: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R-93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71790
Name 4904AOC.05.064 - Milw Die Cast
Received: 03/29/05
Analyzed: 04/04/05
Analyst Jon Yakish
Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 17B | None Detected | Black Resinous<br>8% Fg 70% Pt MLM Qu Cal Tar<br>5% Ce<br>17% Syn |
| 17C | 3% Chry | Black Resinous<br>7% Fg 75% Pt MLM Qu Cal Tar<br>15% Syn |
| 18A | 15% Chry | Black Resinous<br>10% Ce 75% Pt MLM Qu Cal Tar |
| 19A | 30% Chry | Black Resinous<br>15% Ce 55% Pt MLM Qu Cal Tar |
| 20A | None Detected | Black Resinous<br>35% Ce 65% Pt MLM Qu Cal Tar |
| 20B | 3% Chry | Black Resinous<br>42% Ce 55% Pt MLM Qu Cal Tar |
| 21A | 10% Chry | Black Resinous<br>35% Ce 55% Pt MLM Qu Cal Tar |

Chry: Chrysotile
Amos: Amosite
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite

Fg: Fibrous Glass
Ce: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate

Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
GS: Glass Shot
Pt: Particulate

PL-M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Ru: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R 93/116. Quantification is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71790
Name 4904AOC.05.064 - Milw Die Cast
Received: 03/29/05
Analyzed: 04/04/05
Analyst Jon Yakish
Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 22A | 20% Chry | Gray Compact<br>80% Pt MLM Qu Cal |
| 23A | None Detected | Off-White Compact<br>2% Fg 90% Gyp Pt MLM Qu<br>8% Ce |
| 23B | None Detected | Off-White Compact<br>Trace Fg 100% Gyp Pt MLM Qu<br>Trace Ce |
| 23C | None Detected | Off-White Compact<br>Trace Fg 100% Gyp Pt MLM Qu<br>Trace Ce |
| 24A | None Detected | Black Resinous<br>Trace Ce 100% Pt MLM Qu Cal Tar |
| 24B | None Detected | Black Resinous<br>Trace Ce 100% Pt MLM Qu Cal Tar |
| 24C | None Detected | Black Resinous<br>100% Pt MLM Qu Cal Tar |

Chry: Chrysotile
Amos: Amosite
Croc: Crocidolite
Act: Actinolite
Tremo: Tremolite
Anth: Anthophyllite

Fg: Fibrous Glass
Ce: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate

Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
Gs: Glass Shot
Pt: Particulate

PL-M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rm: Resinous Material
Dc: Diatomaceous Earth

Test method: EPA/600/R-93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71790
Name 4904AOC.05.064 - Milw Die Cast
Received: 03/29/05
Analyzed: 04/04/05
Analyst Jon Yakish
Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 25A | None Detected | Gray Compact<br>100% Pt MLM Qu Cal |
| 26A | None Detected | Tan Compact<br>100% Pt MLM Qu Cal |
| 26B | None Detected | Tan Compact<br>100% Pt PL-M MLM Qu Cal |
| 26C | None Detected | Tan Compact<br>100% Pt MLM Qu Cal |
| 27A | None Detected | Tan Compact<br>100% Pt PL-M MLM Qu Cal |
| 28A | Trace Chry | Gray Compact<br>100% Pt PL-M MLM Qu Cal |
| 29A | None Detected | Brown Flexible<br>100% Pt MLM Qu Cal Rs<br>Non-ACM Brown Mastic |
| 29B | None Detected | Brown Flexible<br>100% Pt MLM Qu Cal Rs<br>Non-ACM Brown Mastic |

Chry: Chrysotile
Amos: Amosite
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite

Fg: Fibrous Glass
Cl: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate

Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
GS: Glass Shot
Pt: Particulate

PL-M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rs: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R-93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71790
Name 4904AOC.05.064 - Milw Die Cast
Received: 03/29/05
Analyzed: 04/04/05
Analyst Jon Yakish
Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 29C | None Detected | Brown Flexible<br>100% Pt MLM Qu Cal Rs |

End of Report

Chry: Chrysotile
Amo: Amosite
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite
Fg: Fibrous Glass
Ce: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate
Ver: Vermiculite
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(414) 771-0855 Fax 771-6570
800-771-9820

Client: Onyx Special Services

Job ID: 4904AOC.05.064 / MILW DIE CAST

# SAMPLES: 77 Page 1 of 3

| Sample ID | Sample ID |
|---|---|
| 01-A | 06-A |
| 01-B | 06-B |
| 01-C | 06-C |
| 02-A | 07-A |
| 02-B | 07-B |
| 02-C | 07-C |
| 03-A | 08-A |
| 03-B | 08-B |
| 03-C | 08-C |
| 04-A | 09-A |
| 04-B | 09-B |
| 04-C | 09-C |
| 05-A | 10-A |
| 05-B | 10-B |
| 05-C | 10-C |

[illegible] 3-29-05/5:44 PM [illegible]
Relinquished by Date/Time Received by Date/Time
3-29-05 5:44 PM

Relinquished by Date/Time Received by Date/Time

NOTES Call Results # 247-5100 Fax # 247-5110

Name/Pager #

Other Results Needed Mon 4-4-05 PM

Micro Analytical, INC.
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800-771-9820

Client: Onyx Special Services

Job ID: 4904AOC.05.064 / MILW DIE CAST

# SAMPLES: 77 Page 2 of 3

| Sample ID | Sample ID |
|---|---|
| 11-A | 16-C |
| 11-B | 17-A |
| 11-C | 17-B |
| 12-A | 17-C |
| 13-A | 18-A |
| 13-B | 19-A |
| 13-C | 19-B |
| 14-A | 19-C |
| 14-B | 20-A |
| 14-C | 20-B |
| 15-A | 20-C |
| 15-B | 21-A |
| 15-C | 21-B |
| 16-A | 21-C |
| 16-B | 22-A |

Relinquished by Date/Time: 3-29-05/5:44PM

Received by Date/Time: 3-29-05 5:44 PM

Relinquished by Date/Time

Received by Date/Time

NOTES Call Results # 247-5100 Fax # 247-5110

Name/Pager #

Other Results Needed Mon 4-4-05 PM

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800-771-9820

Client: Onyx Special Services

Job ID: 4904AOC.05.064 / MILW DIE CAST

# SAMPLES: 77 Page 3 of 3

| Sample ID | Sample ID |
|---|---|
| 22-B | 29-B |
| 22-C | 29-C |
| 23-A | |
| 23-B | |
| 23-C | |
| 24-A | |
| 24-B | |
| 24-C | |
| 25-A | |
| 26-A | |
| 26-B | |
| 26-C | |
| 27-A | |
| 28-A | |
| 29-A | |

Greg Maunder 3-29-05 / 5:44PM
Relinquished by Date/Time

[signature]
Received by Date/Time
3-29-05 5:44 PM

Relinquished by Date/Time

Received by Date/Time

NOTES Call Results # 247-5100 Fax # 247-5110

Name/Pager #

Other Results Needed Mon 4-4-05 - PM

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NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71830
Name 490440C.05.064 - WI Die Cast
Received: 03/30/05
Analyzed: 04/05/05
Analyst Arthur L Warneke III

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 30A | Trace Chry | Gray Compact 100% Pt MLM Qu Cal Rs |
| 30B | Trace Chry | Gray Compact 100% Pt MLM Qu Cal Rs |
| 30C | Trace Chry | Gray Compact 100% Pt MLM Qu Cal Rs |
| 31A | 2% Chry | Gray Compact 98% Pt MLM Qu Cal Rs |
| 32A | 10% Chry | Brown Resinous 90% Pt MLM Qu Cal Rs |
| 33A | 2% Chry | Beige Compact 98% Pt MLM Qu Cal |
| 34A | None Detected | Gray Resinous Trace Sc 100% Pt MLM Qu Cal Rs |
| 34B | None Detected | Gray Resinous Trace Sc 100% Pt MLM Qu Cal Rs |

hry: Chrysotile
Amph: Amphibole
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite
Fg: Fibrous Glass
Ce: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate
Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
Gs: Glass Shot
Pt: Particulate
PL-M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rs: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R-93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71830
Name 490440C.05.064 - WI Dio Cast
Received: 03/30/05
Analyzed: 04/05/05
Analyst Arthur L Warneke III

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|

End of Report

Chry: Chrysotile
Amos: Amosite
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite

Fg: Fibrous Glass
Cel: Cellulose
Syn: Synthetic Fiber
H: Hair
Si: Silicate

Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
GS: Glass Shot
Pt: Particulate

PL-M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rn: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R-93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 3%. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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(414) 771-0855 Fax 771-6570
800-771-9820

Client: Onyx Special Services

Job ID: LUISC DIE CAST 490440C.05.064

# SAMPLES: 13 Page 1 of 1

| Sample ID | Sample ID |
|---|---|
| 30-A | |
| 30-B | |
| 30-C | |
| 31-A | |
| 31-B | |
| 32-A | |
| 32-B | |
| 32-C | |
| 33-A | |
| 33-B | |
| 33-C | |
| 34-A | |
| 34-B | |
| | |

Relinquished by Date/Time 3-30-05/5:19 PM

Received by Date/Time 3-30-05 5:21 PM

Relinquished by Date/Time

Received by Date/Time

NOTES Call Results # ~~247-5100~~ Fax # ~~247-5110~~

Name/Pager #

Other Results Needed TUE

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NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71897
Name 490440C.05.064 - Milw. Die Ca
Received: 04/01/05
Analyzed: 04/06/05
Analyst Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 35A | None Detected | Off-White Resinous<br>3% Sc 97% Pt MLM Qu Cal Rs |
| 35B | None Detected | Off-White Resinous<br>3% Sc 97% Pt MLM Qu Cal Rs |
| 36A | None Detected | Gray Resinous<br>100% Pt MLM Qu Cal Rs |
| 36B | None Detected | Gray Resinous<br>100% PL-M MLM Qu Cal Rs |
| 37A | 7% Chry | Brown Mastic<br>93% Pt MLM Qu Rs |
| 38A | 4% Chry | Gray Compact<br>96% Pt PL-M MLM Qu Cal |
| 39A | None Detected | Gray Resinous<br>100% PL-M MLM Qu Cal Rs |
| 40A | 5% Chry | Gray Resinous<br>95% Pt MLM Qu Cal Rs |

Chry: Chrysotile
Amos: Amosite
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite

Fg: Fibrous Glass
Cl: Cellulose
Syn: Synthetic Fiber
H: Hair
Sc: Silicate

Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
Gm: Glass Shot
Pt: Particulate

PL-M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rs: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R 93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71897
Name 490440C.05.064 - Milw. Die Cas
Received: 04/01/05
Analyzed: 04/06/05
Analyst Kevin Hachey

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|

End of Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ary: | Chrysotile | Fg: | Fibrous Glass | Ver: | Vermiculite | M.M: | Paint Like Material |
| mon: | Amosite | Co: | Cellulose | Per: | Perlite | MLM: | Mixed Limestone Material |
| croc: | Crocidolite | Syn: | Synthetic Fiber | Gyp: | Gypsum | Qu: | Quartz |
| Act.: | Actinolite | H: | Hair | GS: | Glass Shck | Cal: | Calcite |
| Trem: | Tremolite | Sc: | Silicate | Pt: | Particulate | Rn: | Resinous Material |
| Anth: | Anthophyllite | | | | | De: | Diatomaceous Earth |

Test method: EPA/600/R 93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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(414) 771-0855 Fax 771-6570
800-771-9820

Client: Onyx Special Services

Job ID: 490440C.05.064/MILW DIE CAST

# SAMPLES: 9 Page 1 of 1

| Sample ID | Sample ID |
|---|---|
| 35-A | |
| 35-B | |
| 36-A | |
| 36-B | |
| 37-A | |
| 37-B | |
| 38-A | |
| 39A | |
| 40-A | |
| | |
| | |
| | |
| | |
| | |
| | |

[signature] 4-1-05/12:21 AM
Relinquished by Date/Time

[signature] 4/1/05
Received by Date/Time

Relinquished by Date/Time

Received by Date/Time

NOTES Call Results # ~~247-5100~~ Fax # ~~247-5110~~

Name/Pager #

Other Results Needed Wed 4-6-05 / 9:00AM

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Milwaukee, WI 53226
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Fax: (414)771-6570



NVLAP 101247-0

# BULK ASBESTOS ANALYTICAL REPORT
## Utilizing PLM and Dispersion Stain Technique

Onyx Special Services, Inc.
P.O. Box 367
Germantown WI 53022

Report # 71898
Name Milwaukee Die Cast
Received: 04/01/05
Analyzed: 04/06/05
Analyst Arthur L Warneke III

| Sample ID: | %Asbestos | Description & Composition |
|---|---|---|
| 41A | None Detected | Off-White Loose 100% Per PL-M MLM Qu Cal |
| 41B | None Detected | Off-White Loose 100% Per PL-M MLM Qu Cal |

End of Report

Chry: Chrysotile
Amo: Amosite
Croc: Crocidolite
Act: Actinolite
Trem: Tremolite
Anth: Anthophyllite
Fg: Fibrous Glass
Ce: Cellulose
Syn: Synthetic Fiber
Hr: Hair
Sc: Silicate
Ver: Vermiculite
Per: Perlite
Gyp: Gypsum
Gs: Glass Shot
Pt: Particulate
PL M: Paint Like Material
MLM: Mixed Limestone Material
Qu: Quartz
Cal: Calcite
Rs: Resinous Material
De: Diatomaceous Earth

Test method: EPA/600/R 93/116. Quantification is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

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11521 W. North Avenue
Milwaukee, WI 53226
(414) 771-0855 Fax 771-6570
800-771-9820

Client: Onyx Special Services

Job ID: MILW DIE CAST

# SAMPLES: 2 Page 1 of 1

| Sample ID | Sample ID |
|---|---|
| 41-A | |
| 41-B | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

4-4-05/2:30PM 4/7/05

Relinquished by Date/Time Received by Date/Time

Relinquished by Date/Time Received by Date/Time

NOTES Call Results # ~~247-5100~~ Fax # ~~247-5110~~

Name/Pager #

Other Results Needed Wed 4-7-05/noon

Micro Analytical, Inc.
11521 W. North Avenue
Milwaukee, WI 53226
(414)-771-0855



NVLAP Code: 101247-0

Bulk Qualitative Analytical Report
Utilizing PLM and Dispersion Staining

Onyx Special Services, Inc.
P.O. Box 367
Germantown, WI 53022

Report #: 71791
Name: 490741A.05.064
Received: 04/01/2005
Analyzed: 04/01/2005
Analyst: Kevin Hachey

| Sample ID | Asbestos | Asbestos Type | Color | Description |
|---|---|---|---|---|
| 50A | Not Present | NA | Multi-Colored | Loose |
| 51A | Not Present | NA | Multi-Colored | Loose |
| 52A | Present | Chrysotile | Multi-Colored | Loose |
| 53A | Not Present | NA | Multi-Colored | Loose |
| 54A | Not Present | NA | Multi-Colored | Loose |
| 55A | Not Present | NA | Multi-Colored | Loose |
| 56A | Not Present | NA | Multi-Colored | Loose |
| 57A | Not Present | NA | Multi-Colored | Loose |

* Sample size is insufficient for proper PLM analysis. This report reflects only a qualitative result for asbestos, and therefore falls outside of Micro Analytical's NVLAP Accreditation.

This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of Micro Analytical, Inc.

Micro Analytical, Inc.
11521 W. North Avenue
Milwaukee, WI 53226
(414)-771-0855



NVLAP Code: 101247-0

Bulk Qualitative Analytical Report
Utilizing PLM and Dispersion Staining

Onyx Special Services, Inc.
P.O. Box 367
Germantown, WI 53022

Report #: 71791
Name: 490741A.05.064
Received: 04/01/2005
Analyzed: 04/01/2005
Analyst: Kevin Hachey

| Sample ID | Asbestos | Asbestos Type | Color | Description |
|---|---|---|---|---|
| 58A | Not Present | NA | Multi-Colored | Loose |
| 59A | Not Present | NA | Multi-Colored | Loose |
| 60A | Not Present | NA | Multi-Colored | Loose |
| 61A | Not Present | NA | Multi-Colored | Loose |
| 62A | Not Present | NA | Multi-Colored | Loose |
| 63A | Not Present | NA | Multi-Colored | Loose |
| 64A | Not Present | NA | Multi-Colored | Loose |
| 65A | Not Present | NA | Multi-Colored | Loose |

* Sample size is insufficient for proper PLM analysis. This report reflects only a qualitative result for asbestos, and therefore falls outside of Micro Analytical's NVLAP Accreditation.

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Micro Analytical, Inc.
11521 W. North Avenue
Milwaukee, WI 53226
(414)-771-0855



NVLAP Code: 101247-0

Bulk Qualitative Analytical Report
Utilizing PLM and Dispersion Staining

Onyx Special Services, Inc.
P.O. Box 367
Germantown, WI 53022

Report #: 71791
Name: 490741A.05.064
Received: 04/01/2005
Analyzed: 04/01/2005
Analyst: Kevin Hachey

| Sample ID | Asbestos | Asbestos Type | Color | Description |
|---|---|---|---|---|
| 66A | Not Present | NA | Multi-Colored | Loose |
| 67A | Not Present | NA | Multi-Colored | Loose |
| 68A | Present | Chrysotile | Multi-Colored | Loose |
| 69A | Not Present | NA | Multi-Colored | Loose |

* Sample size is insufficient for proper PLM analysis. This report reflects only a qualitative result for asbestos, and therefore falls outside of Micro Analytical's NVLAP Accreditation.

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Micro Analytical, INC.
11521 W. North Avenue
Milwaukee, WI 53226
(414) 771-0855 Fax 771-6570
800-771-9820

Client: Onyx Special Services

Job ID: 4904AOC.05.064 / MILW DIE CAST

# SAMPLES: 20 Page 1 of 1

SETTLED DUST

| Sample ID | Sample ID |
|---|---|
| 50-A | 65-A |
| 51-A | 66-A |
| 52-A | 67-A |
| 53-A | 68-A |
| 54-A | 69-A |
| 55-A | |
| 56-A | |
| 57-A | |
| 58-A | |
| 59-A | |
| 60-A | |
| 61-A | |
| 62-A | |
| 63-A | |
| 64-A | |

[illegible] 3-29-05/5:44PM
Relinquished by Date/Time

[illegible]
Received by Date/Time 3-29-05 5:44PM

Relinquished by Date/Time

Received by Date/Time

NOTES Call Results # 247-5100 Fax # 247-5110

Name/Pager #

Other Results Needed Mon 4-4-05 PM

# Certifications

# Good Armstrong & Associates, Ltd.

2142 S. 55th Street (414) 645-7600 Milwaukee, WI 53219

Good Armstrong & Associates, Ltd. hereby certifies that

## Gregory J. Marenda

has attended an asbestos training class conducted 11/18/2004
thereby meeting the qualification requirements for

## Asbestos Inspector Update

In recognition of this accomplishment, Good Armstrong & Associates, Ltd. hereby awards
Certificate #5951, which expires on 11/18/2005.

Accredited under U.S. EPA (TSCA II, AHERA) regulations
by the Wisconsin Department of Health and Family Services

Course #415

Attested this date of 11/18/2004 by _____
Paul Malmstrom, President

ASBESTOS INSPECTOR
Issued By
STATE OF WISCONSIN
Dept. of Health & Family Services

GREGORY J MARENDA
nonresponsive
nonresponsive

| | | | |
|---|---|---|---|
| | | 180 lbs | 5' 06" |
| AII-726 | 12/22/2005 | nonres | Male |

Training due by: 12/22/2005

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

# Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

## MICRO ANALYTICAL, INC.

MILWAUKEE, WI

*is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:*

## BULK ASBESTOS FIBER ANALYSIS

December 31, 2005

*Effective through*

*For the National Institute of Standards and Technology*

NVLAP Lab Code: 101247-0

NVLAP-01C (06-01)

# 2004 Target Environmental Services

# Report

Milwaukee Dye Cast



The following is a summary of building materials found or assumed to contain asbestos.

- Boiler insulation contains 65 percent chrysotile (asbestos) and 27 percent amosite (asbestos)
- Boiler stacks fiberboard and transite contain 15 percent crocidolite (asbestos), 10 to 20 percent chrysotile, and less than 1 percent amosite
- Boiler door insulation – assumed
- Boiler gasket material – assumed
- Interior boiler lining at the firebox between the brick and the steel of boiler – assumed
- Tank insulation contains 65 percent chrysotile and 27 percent amosite
- 2-inch to 4-inch felt with fibrous layer and tar paper pipe insulation contains 3 percent chrysotile in the fibrous layer, and 50 percent chrysotile in the tar paper
- 2-inch to 4-inch pipe-fitting insulation on felt with fibrous paper and tar-paper-insulated piping contains 10 percent chrysotile and 30 percent amosite
- 2-inch to 12-inch air-cell pipe insulation contains 70 percent chrysotile
- 2-inch to 12-inch pipe-fitting insulation on air-cell-insulated piping contains 5 percent chrysotile and 35 percent amosite
- 2-inch to 4-inch pipe-fitting insulation on fiberglass-insulated piping contains 5 percent chrysotile and 15 percent amosite
- Pipe and fitting insulation debris – assumed
- Pipe-and-fitting insulation located inside of floor, tunnel, wall cavities, pipe chase, and above ceiling space (inaccessible) – assumed
- Black duct tar contains 20 percent chrysotile where - QTY?
- Duct expansion gasket – assumed where - QTY
- Transite panels (fascia, cooling tower, and ceiling) contain 15 to 20 percent chrysotile
- 9-inch by 9-inch red floor tile contains 4 percent chrysotile
- 12-inch by 12-inch tan floor tile (south central field office) contains 3 percent chrysotile
- 12-inch by 12-inch beige floor tile cross-contaminated by black floor tile mastic contains 10 percent chrysotile
- 12-inch by 12-inch tan floor tile cross-contaminated by black floor tile mastic contains 10 percent chrysotile
- Black floor tile mastic contains from 5 to 10 percent chrysotile
- Fire doors – assumed
- Safe/vault lining – assumed
- Electrical panel insulators – assumed
- Exterior window caulking contains from 5 percent chrysotile
- Roof flashing material contains 15 percent chrysotile

## C.2. Non-Asbestos-Containing Materials

The following is a summary of building materials found to contain no asbestos or materials that contain one percent or less asbestos (non-asbestos-containing materials by regulatory definition).

- Sheetrock panel
- Plaster
- 12-inch by 12-inch ceiling tile – fissured with pinhole and brown adhesive
- 2-foot by 4-foot lay-in ceiling panels – textured, fissured, fissured with pin hole
- 12-inch by 12-inch wood floor tile with associated black adhesive
- Block wood floor with black adhesive
- Black vinyl baseboard with brown adhesive
- 12-inch by 12-inch black floor tile with associated yellow adhesive (west trimming area/warehouse)
- 12-inch by 12-inch tan floor tile with associated yellow adhesive (east die cast – southwest field office)
- Cement floor patching material
- Painted floor - tan with specs
- Linoleum – tan flecked
- Window glazing
- Base roofing material

Table 1 lists individual functional spaces of the building, the suspect materials identified in that functional space, whether the suspect material was identified by analysis to be an asbestos-containing material, an estimated amount of each suspect material for the functional space, and includes condition and hazard ratings based on subjective observations made by our representatives.

Table 2 lists the homogenous material sample numbers, sample locations, suspect material descriptions, and the analysis results for each sample.

## C.3. Lead in Paint

Testing for lead in paint was accomplished with an x-ray fluorescence (XRF) field portable analyzer. Analysis decision-making protocols were based on compliance with the U.S. Occupational Safety and Health Administration (OSHA) Lead in Construction Standard 29 CFR 1926.62. This regulation applies to all situations where employees are engaged in the disturbance of lead-containing coatings, regardless of the quantity of lead involved. Therefore, any XRF result above 0.0 milligrams per square centimeter

- Furnaces and air handlers
- Window air-conditioning units
- Fire extinguisher
- Smoke detectors
- Exit signs
- Emergency back up lighting
- Door closers with oil
- Paints, stains, varnish, thinners
- Various chemicals and cleaners
- Hydraulic fluid and oil
- Boiler chemicals
- Electrical panels
- Electrical transformers
- Drinking fountains
- Unit heaters
- Water heaters
- Industrial equipment
- Lawnmower
- Tires
- Gasoline
- 55-gallon drums with unknown contents
- Rooftop HVAC units
- Rooftop cooling tower
- Roof vent cap rings with lead

## D. Discussion

### D.1. Asbestos-Containing Materials

The following asbestos-containing materials are classified as friable materials according to EPA 40 CFR Part 61 National Emission Standard for Hazardous Air Pollutants (NESHAPs). Friable materials are to be removed prior to demolition in accordance with applicable state and federal regulations.

- Boiler insulation
- Boiler stack (fiberboard)
- Interior boiler lining at the firebox between the brick and the steel of the boiler

- Boiler door insulation
- Tank insulation
- 2-inch to 4-inch felt with fibrous layer and tar paper pipe insulation
  2-inch to 4-inch pipe-fitting insulation on felt with fibrous paper and tar-paper insulation
- 2-inch to 12-inch air-cell pipe insulation
- 2-inch to 12-inch pipe-fitting insulation on air-cell-insulated piping
- 2-inch to 4-inch pipe-fitting insulation on fiberglass-insulated piping
- Pipe and fitting insulation debris
- Pipe and fitting insulation located inside of floor, tunnel, wall cavities, pipe chase, and above ceiling space (inaccessible)
- Black duct tar
- Safe/vault lining
- Fire doors

The following asbestos-containing materials are classified as a Category I non-friable materials according to EPA NESHAPs and are not considered a hazard unless cut, drilled, sanded or otherwise abraded. However, any Category I material that may become friable during demolition must be removed prior to that activity.

- 9-inch by 9-inch red floor tile
- 12-inch by 12-inch tan floor tile
- 12-inch by 12-inch beige floor tile cross-contaminated by black floor tile mastic
- 12-inch by 12-inch tan floor tile cross-contaminated by black floor tile mastic
- Black floor tile mastic
- Boiler gasket material
- Duct expansion gasket
- Roofing flashing material

The following asbestos-containing materials are classified as Category II non-friable materials according to EPA NESHAPs . Category II materials must be removed prior to demolition in accordance with applicable state and federal regulations.

- Transite (cooling tower, boiler stacks, exterior fascia, and ceiling)
- Electrical panel insulators
- Exterior window caulking

# Table 2. Bulk Asbestos Analytical Results

Client: Target Environmental Services
Location: 4132 North Holton Street; Milwaukee, WI (Milwaukee Die Casting Company Property)
Date of Inspection: September 7, 2004 through September 9, 2004
Project No.: LC-04-04423

| Sample No. | Sample Location | Material | Asbestos Content (%) |
|---|---|---|---|
| 1 | Boiler room | Boiler insulation | Chrysotile 65<br>Amosite 27 |
| 2 | Boiler room | Tank insulation | Chrysotile 65<br>Amosite 27 |
| 3A | Boiler room | 2" - 4" pipe insulation - felt with tar paper | Tan layer: Chrysotile 3<br>Tar paper: Chrysotile 50 |
| 3B | Boiler room | 2" - 4" pipe insulation - felt with tar paper | Tan layer: Chrysotile 3<br>Tar paper: Chrysotile 50 |
| 3C | Boiler room | 2" - 4" pipe insulation - felt with tar paper | Tan layer: Chrysotile 3<br>Tar paper: Chrysotile 50 |
| 4 | Boiler room | 2" - 4" pipe-fitting insulation on felt | Chrysotile 10<br>Amosite 30 |
| 5 | Boiler room | 2" - 12" pipe insulation - aircell | Chrysotile 70 |
| 6 | Boiler room | 2" - 12" pipe-fitting insulation on aircell | Chrysotile 5<br>Amosite 25 |
| 7 | West first aid room | Painted floor - tan specs | N.D.[2] |
| 8 | Cafeteria | 12" x 12" beige floor tile with black mastic | Floor tile: N.D.<br>Black mastic: Chrysotile 10 |
| 9 | Cafeteria | Black vinyl baseboard with brown adhesive | N.D. |
| 10 | Cafeteria | 2' x 4' ceiling panel - textured | N.D. |
| 11A | West womens locker room | Plaster | N.D. |
| 11B | West mens locker room | Plaster | N.D. |
| 11C | West office area | Plaster | N.D. |
| 12 | Northwest vestibule | Window glazing (on metal windows) | N.D. |
| 13 | West warehouse - trimming area | 2" - 4" pipe-fitting insulation on fiberglass-insulated pipe | Chrysotile 5<br>Amosite 15 |
| 14 | West office area restroom hallway | 12" x 12" wood floor tile with black mastic | N.D. |
| 15 | West office area - restroom hallway | 12" x 12" tan floor tile with black mastic | Floor tile: N.D.<br>Black mastic: Chrysotile 8 |
| 16 | West office area | 2' x 4' ceiling panel - fissured | N.D. |
| 17 | West office area (under carpet) | 9" x 9" red floor tile with black mastic | Floor tile: Chrysotile 4<br>Black mastic: Chrysotile 5 |
| 18 | West office area | Brown vinyl baseboard with brown adhesive | N.D. |
| 19 | West office area | Black vinyl baseboard with brown adhesive | N.D. |

**Table 2. Bulk Asbestos Analytical Results**
Project LC-04-04423
Page 2

| Sample No | Sample Location | Material | Asbestos Content (%) |
|---|---|---|---|
| 20 | West office area | Black duct tar | Chrysotile 20 |
| 21 | West office area | Window glazing (on metal windows) | N.D. |
| 22 | West warehouse/trimming area | Window glazing (on metal windows) | N.D. |
| 23 | South-central field office | 12" x 12" tan floor tile with yellow adhesive (under carpet) | Floor tile: Chrysotile 3<br>Adhesive: N.D. |
| 24 | South-central field office | 12" x 12" ceiling tile - fissured with pinhole and brown adhesive | N.D. |
| 25 | South-central field office | Sheetrock ceiling | N.D. |
| 26 | West warehouse - trimming area | Cement floor patch | N.D. |
| 27 | West warehouse - trimming area | Wood block floor with black adhesive | N.D. |
| 28 | West warehouse - trimming area | 12" x 12" black floor tile with yellow adhesive | N.D. |
| 29 | North-central field office | 2' x 4' ceiling panel - fissured with pinhole | N.D. |
| 30 | North-central field office | Linoleum - tan flecked | N.D. |
| 31 | East die cast - southwest field office | 12" x 12" tan floor tile with yellow adhesive | N.D. |
| 32 | Exterior fascia | Transite panel | Chrysotile 15 |
| 33 | Roof (above west warehouse - trimming) | Flashing and sidewall - tarry with silver paint | Chrysotile <1 |
| 34 | Roof (above west warehouse - trimming) | Base roofing material | N.D. |
| 35 | Roof (above west warehouse - trimming) | Boiler stack - fiberboard with transite | Crocidolite 15<br>Chrysotile 20<br>Amosite <1[3] |
| 36 | Roof (above west warehouse - trimming) | Boiler stack - transite | Crocidolite 10<br>Chrysotile 10 |
| 37 | Roof (above die cast area) | Flashing and sidewall tarry with silver paint | Chrysotile 15 |
| 38 | Roof (above die cast area) | Base roofing material | N.D. |
| 39 | Roof (above die cast area) - cooling tower | Transite | Chrysotile 20 |
| 40 | Exterior windows - south | Caulking | Chrysotile 5 |

* Materials containing 1 percent of asbestos or less are not considered to be asbestos-containing materials by the U.S. EPA.

1. Asbestos content is indicated as an approximate percent by area.
2. N.D. = None detected.
3. <= Less than.

**Table 1. Asbestos Building Inspection Results**
Project LC-04-04423


| Functional Space | Homogeneous Material Description | Contains Asbestos (Yes/No) | Ref. Client Sample No. (See Table II) | Estimated Quantity/ Units | Material Condition | Hazard Category |
|---|---|---|---|---|---|---|
| West workhouse/ trimming area/shipping receiving | 2" - 4" pipe-fitting insulation on fiberglass-insulated pipe | Yes | 13 | 55 fittings | ND | 2 |
| West workhouse/ trimming area/shipping receiving | 2" - 12" pipe and fitting insulation on aircell | Yes | Ref 5,6 | 950 ft<br>150 fittings | ND | 2 |
| West workhouse/ trimming area/shipping receiving | Duct expansion gasket | Assume | — | 25 ft | ND | 2 |
| West workhouse/ trimming area/shipping receiving | Window glazing on metal windows | No | 22 | 1,000 $ft^2$ | ND | 0 |
| West workhouse/ trimming area/shipping receiving | Plaster | No | Ref 11A - C | Not quantified | ND | 0 |
| West workhouse/ trimming area/shipping receiving | Cement floor patch | No | 26 | 200 $ft^2$ scattered | ND | 0 |
| West workhouse/ trimming area/shipping receiving | Wood block floor with black adhesive | No | 27 | 400 $ft^2$ | ND | 0 |
| West workhouse/ trimming area/shipping receiving | 12" x 12" black floor tile with yellow adhesive | No | 28 | 200 $ft^2$ | ND | 0 |
| South-central field office | 12" x 12" tan floor tile with yellow adhesive (under carpet) | Yes (floor tile) | 23 | 150 $ft^2$ | ND | 1 |
| South-central field office | 12" x 12" ceiling tile - fissured with pinhole and brown adhesive | No | 24 | 150 $ft^2$ | ND | 0 |
| South-central field office | Sheetrock ceiling | No | 25 | Not quantified | ND | 0 |
| South-central field office | Aircell pipe insulation debris (on ceiling) | Yes | Ref 5, 6 | 5 $ft^2$ | SD | 4 |
| North-central field office | 2' x 4' ceiling panel - fissured with pinhole | No | 29 | 500 $ft^2$ | D | 0 |
| North-central field office | Linoleum - tan flecked | No | 30 | 500 $ft^2$ | ND | 0 |
| North-central field office | Brown vinyl baseboard with brown adhesive | No | Ref 18 | Not quantified | ND | 0 |
| East die cast area - southwest field office | 12" x 12" yellow floor tile with yellow adhesive | No | 31 | 100 $ft^2$ | D | 0 |
| East die cast area | 2" - 12" pipe and fitting insulation on aircell | Yes | Ref 5, 6 | 250 ft<br>80 fittings | SD | 4 |
| East die cast area | Window glazing on metal windows | No | Ref 12, 21, 22 | 2,000 $ft^2$ | D | 0 |
| East die cast area | Asbestos debris penetration | Yes | Ref 5, 6 | Scattered throughout | SD | 4 |
| East die cast area | Asbestos debris (in floor cavities) | Yes | Ref 5, 6 | Scattered throughout | SD | 4 |
| East die cast tunnel area | Asbestos debris (at hatch openings) | Yes | Ref 5, 6 | Scattered throughout | SD | 4 |
| East die cast area | Electrical panel insulators | Assume | — | Electrical panels | ND | 2 |
| East die cast (west field [illegible]) | None observed | No | — | — | — | 0 |
| Exterior | Transite fascia panel | Yes | 32 | 1,000 $ft^2$ | ND | 2 |

210 SF

**Table 1. Asbestos Building Inspection Results**
Project LC-04-04423


| Functional Space | Homogeneous Material Description | Contains Asbestos (Yes/No) | Ref. Client Sample No. (See Table II) | Estimated Quantity/ Units | Material Condition[1] | Hazard Category[2] |
|---|---|---|---|---|---|---|
| Roof (above west warehouse trimming and office area) | Flashing and sidewall - tarry with silver paint) | No | 33 | 10,000 $ft^2$ | ND | 0 |
| Roof (above west warehouse trimming and office area) | Base roofing material | No | 34 | 50,000 $ft^2$ | ND | 0 |
| Roof (above west warehouse trimming and office area) | Boiler stack - fiberboard | Yes | 35 | 20 ft | ND | 2 |
| Roof (above west warehouse trimming and office area) | Boiler stack - transite | Yes | 36 | 20 ft | ND | 2 |
| Roof (above west warehouse trimming and office area) | Transite - scattered debris on roof surface | Yes | Ref 32 | 10 $ft^2$ scattered | D | 3 |
| Roof (above die cast area) | Flashing and sidewall - tarry with silver paint | Yes | 37 | 5,000 $ft^2$ | ND | 2 |
| Roof (above die cast area) | Base roofing material | No | 38 | 20,000 $ft^2$ | ND | 0 |
| Roof (above die cast area) | Cooling tower transite | Yes | 39 | 500 $ft^2$ | ND | 2 |
| Roof (above die cast area) | Transite panels (on roof) | Yes | Ref 32 | 150 $ft^2$ | ND | 2 |
| Exterior windows | Caulking | Yes | 40 | Perimeter all windows | ND | 2 |

4 LF

3 LF

1. Condition of ACM:
   ND = Not Damaged
   D = Damaged
   SD = Significantly Damaged

2. Hazard Category
   0 — No hazard - material does not contain asbestos.
   1 — ACM with potential for damage.
   2 — ACM with potential for significant damage.
   3 — Damaged or significantly damaged asbestos-containing miscellaneous material.
   4 — Damaged or significantly damaged friable asbestos-containing thermal system insulation.
   5 — Damaged or significantly damaged friable asbestos-containing surfacing material.

**Table 1. Asbestos Building Inspection Results**
Project LC-04-04423
Page 2

| Functional Space | Homogeneous Material Description | Contains Asbestos (Yes/No) | Ref. Client Sample No. (See Table II) | Estimated Quantity/ Units | Material Condition | Hazard Category |
|---|---|---|---|---|---|---|
| West womens locker room area | 2" - 4" pipe and fitting insulation on felt | Yes | Ref 3A - C<br>Ref 4 | 8 ft<br>8 fittings | ND | 2 |
| West womens locker room area | 2" - 12" pipe and fitting insulation on aircell | Yes | Ref 5, 6 | 245 ft<br>12 fittings | ND | 2 |
| West womens locker room area | Plaster | No | 11A | Not quantified | ND | 0 |
| West womens locker room area | Window glazing on metal windows | No | Ref 12, 21, 22 | 200 $ft^2$ | ND | 0 |
| West mens locker room area | 2" - 4" pipe and fitting insulation on felt | Yes | Area 3A - C | 12 ft<br>12 fittings | SD | 4 |
| West mens locker room area | 2" - 12" pipe and fitting insulation on aircell | Yes | Ref 5,6 | 220 ft<br>45 fittings | D | 4 |
| West mens locker room area | Plaster | No | 11B | Not quantified | D | 0 |
| West mens locker room area | Window glazing on metal windows | No | Ref 12, 21, 22 | 300 $ft^2$ | D | 0 |
| West mens locker room area | Asbestos debris (on floor) | Assume | — | 10 $ft^2$<br>Scattered | SD | 4 |
| Northwest vestibule and janitors closet and storage | Window glazing on metal windows | No | 12 | 400 $ft^2$ | ND | 0 |
| Northwest vestibule and janitors closet and storage | 2" - 12" pipe and fitting insulation on aircell | Yes | Ref 5,6 | 80 ft<br>15 fittings | ND | 2 |
| Northwest vestibule and janitors closet and storage | Transite ceiling | Yes | Ref 32 | 12 $ft^2$ | ND | 2 |
| West office area and restrooms | 2' x 4' ceiling panel - fiberglass | No | — | — | — | 0 |
| West office area and restrooms | 12" x 12" ceiling tile - fiberglass spline | No | — | — | — | 0 |
| West office area and restrooms | Plaster | No | 11C | Not quantified | ND | 0 |
| West office area and restrooms | Window glazing on metal windows | No | 21 | 800 $ft^2$ | ND | 0 |
| West office area and restrooms | 12" x 12" floor tile - wood with black mastic | No | 14 | 400 $ft^2$ | ND | 0 |
| West office area and restrooms | 12" x 12" tan floor tile with black mastic | Yes (mastic) | 15 | 175 $ft^2$ | ND | 1 |
| West office area and restrooms | 2' x 4' ceiling panel - fissured | No | 16 | 100 $ft^2$ | ND | 0 |
| West office area and restrooms | Duct expansion gasket | Assume | — | 20 ft | ND | 2 |
| West office area and restrooms | 9" x 9" floor tile - red with blackmastic (under carpet) | Yes | 17 | 2,800 $ft^2$ | D | 3 |
| West office area and restrooms | Brown vinyl baseboard with brown adhesive | No | 18 | Not quantified | ND | 0 |
| West office area and restrooms | Black vinyl baseboard with brown adhesive | No | 19 | Not quantified | ND | 0 |
| West office area and restrooms | Black duct tar | Yes | 20 | Not quantified | ND | 2 |

# Table 1. Asbestos Building Inspection Results

**Client:** Target Environmental Services
**Location:** 4132 North Holton Street; Milwaukee, WI (Milwaukee Die Casting Company Property)
**Date of Inspection:** September 7, 2004 through September 9, 2004
**Project No.:** LC-04-04423

| Functional Space | Homogeneous Material Description | Contains Asbestos (Yes/No) | Ref. Client Sample No. (See Table II) | Estimated Quantity/ Units | Material Condition[1] | Hazard Category[2] |
|---|---|---|---|---|---|---|
| Boiler room | Boiler insulation | Yes | 1 | 450 ft$^2$ | SD | 4 |
| Boiler room | Tank insulation | Yes | 2 | 275 ft$^2$ | SD | 4 |
| Boiler room | 2" - 4" pipe insulation - felt with tar paper | Yes | 3A - C | 20 ft | SD | 4 |
| Boiler room | 2" - 4" pipe-fitting insulation on felt-insulated piping | Yes | 4 | 4 fittings | SD | 4 |
| Boiler room | 2" - 12" pipe insulation - aircell | Yes | 5 | 100 ft | SD | 4 |
| Boiler room | 2" - 12" pipe-fitting insulation on aircell pipe insulation | Yes | 6 | 10 fittings | SD | 4 |
| Boiler room | Asbestos debris (on all surfaces) | Assume | — | Scattered | SD | 4 |
| Boiler room | Window glazing on metal windows | No | Ref 12, 21, 22 | 200 ft$^2$ | D | 0 |
| Boiler room | Boiler lining between brick and steel at firebox | Assume | — | 150 ft$^2$ | ND | 2 |
| Boiler room | Boiler gasket material | Assume | — | 75 ft | D | 4 |
| Boiler room | Boiler door insulation | Assume | — | 100 ft$^2$ | D | 4 |
| Boiler room | 2" - 4" pipe-fitting insulation on fiberglass-insulated pipe | Yes | Ref 13 | 10 fittings | D | 4 |
| Boiler room | Boiler stack insulation (large) | Yes | Ref 35, 36 | 14 ft | ND | 2 |
| Boiler room | Boiler stack insulation (small) | Yes | Ref 35, 36 | 14 ft | ND | 2 |
| Boiler room | Fire door | Assume | — | 1 large<br>1 small | ND | 2 |
| West first aid room | Painted floor - tan specs | No | 7 | 150 ft$^2$ | ND | 0 |
| West first aid room | 2" - 4" pipe and fitting insulation - felt with tar paper | Yes | Ref 3A - C<br>Ref 4 | 4 ft<br>2 fittings | ND | 2 |
| West first aid room | 2" - 12" pipe and fitting insulation - aircell | Yes | Ref 5,6 | 6 ft<br>1 fitting | ND | 2 |
| West first aid room | Plaster | No | Ref 11A - C | Not quantified | ND | 0 |
| West first aid room | Window glazing on metal windows | No | Ref 12, 21, 22 | 10 ft$^2$ | ND | 0 |
| Cafeteria/stair landing/ storage rooms | 12" x 12" beige floor tile with black mastic | Yes (mastic) | 8 | 2,000 ft$^2$<br>1472 | ND | 1 |
| Cafeteria/stair landing/ storage rooms | Black vinyl baseboard with brown adhesive | No | 9 | Not quantified | ND | 0 |
| Cafeteria/stair landing/ storage rooms | 2' x 4' ceiling panel - textured | No | 10 | 2,000 ft$^2$ | D | 0 |
| Cafeteria/stair landing/ storage rooms | Plaster | No | Ref 11A - C | Not quantified | D | 0 |
| Cafeteria/stair landing/ storage rooms | 2" - 12" pipe and fitting insulation - aircell | Yes | Ref 5,6 | 240 ft<br>80 fittings | ND | 2 |

# City of Milwaukee
## Department of Neighborhood Services
## Environmental Section

No. **DNS 1401**
Date Issued: **SEPTEMBER 15, 2008**

**SEPTEMBER 19, 2008 - OCTOBER 31, 2008**
(Project Duration & Hours)

RE: **4132 N HOLTON ST**

**THIS PERMIT IS VALID ONLY FOR THE NUMBER OF DAYS STATED AND FOR THE HOURS SPECIFIED HEREIN.**

**ISSUED TO:**

**VEOLIA ES**
**N104W13275 DONGES BAY RD**
**GERMANTOWN WI 53022**

This permit entitles the above named to remove asbestos at the above location in accordance with the Milwaukee Code of Ordinances and subject to any limitations under which the permit may be issued.

**POST THIS PERMIT**
**IN A CONSPICUOUS PLACE**
**AT THE PROJECT LOCATION**

### ASBESTOS PROJECT PERMIT

| | | |
|---|---|---|
| ☒ | PLAN EXAM FEE | $ **75.00** |

### PROJECT DURATION FEE

| | | |
|---|---|---|
| ☐ | 0-3 Days | $ |
| ☐ | 4 – 10 Days | $ |
| ☒ | Over 10 days | $ 440.00 |
| | **TOTAL PERMIT FEE** | **$ 515.00** |

☐ City Project – No Fee

☐ Permit Extension of Permit

809 N. Broadway
Milwaukee, WI 53201-0324
(414) 286-8211
www.mkedcd.org/build

[redacted]

# City of Milwaukee, Wisconsin
# APPLICATION FOR PERMIT

Former Milw. Die Cast 4132 North Holton St. Milw. WI. 53212
LOCATION (GIVE EXACT STREET ADDRESS)

Theresa Slyman [redacted] nonresponsive
OWNER'S NAME ADDRESS PHONE NO

Veolia Environmental Services, Inc. N104 W13275 Donges Bay Rd. Germantown, WI 53022 nonresponsive
CONTRACTOR ADDRESS PHONE NO

Vacant / not going to be occupancy $ 35,000.00 to $ 40,000.00
OCCUPANCY USE OF BUILDING COST OF JOB

| TYPE OF PERMIT | FEE | State in Detail the Kind of Work to be Performed |
|---|---|---|
| **Asbestos Project Permit (900)** | | |
| ☐ 1 – 3 days ($150) + $75 plan review = **$225** | | |
| ☐ 4 – 10 days ($300) + $75 plan review = **$375** | | |
| ☐ >10 days ($440) + $75 plan review = **$515** | 515 | |
| ☐ **1% of cost**, if over $51,500 of abatement | | |
| ☐ Extension of Permit (# ) Amount | | |
| **Masonry Building Cleaning Permit (910)** | | |
| ☐ $31 per day – number of days ( ) | | |
| **Backyard Pool Construction Permit (920)** | | I attest that the above information accurately describes the property and the proposed work to be performed on it. I agree to comply with all City of Milwaukee and State of Wisconsin codes applicable to the occupancy and work stated above. I understand that any falsification or misinformation may result in penalties prescribed in the Milwaukee Code of Ordinances. |
| ☐ $38.00 for new installation | | |
| ☐ $50.00 existing pool | | |
| **Public Pool Construction Permit (930)** | | **Note: This is not your permit This is an application only. Please do not begin this project until you receive your permit. For information call 286-3280.** |
| ☐ $125 Full alteration plan review & permit | | |
| ☐ $94 Wading Pool full alteration plan review & permit | | |
| ☐ $55 Wading Pool partial alteration plan review & permit | | |
| ☐ $50 Partial alteration plan review & permit | | |
| ***Add $3 per permit to your payment to cover the permit processing fee | 3.00 | Signature of Applicant |
| **Total Fee** | 518 | |
| Signature Checked By John Hogan | | |

08

Department of Neighborhood Services

Nuisance & Environmental Health Division

**Asbestos Project Work Sheet**

Abatement Firm Veolia Environmental Services, Inc.
(Legal entity: corporation including registered agent, partnership or individual)

Project location 4132 North Hilton Street Milwaukee, WI. 53212
Project dates and times 9/14/08 - 10/31/08 Weekend Work ☐ Yes ☒ No
Amount of asbestos involved (including type and %) Assumed ACM / 2000 L.F. mag piping
Name of Project Manager on site & phone number Jesus Cruz 414-788-1312

**This work sheet must be completed by the abatement firm and attached to the project plans when submitted with the asbestos project permit application at least 5 working days before the start of abatement.** If assistance is required contact the City of Milwaukee Department of Neighborhood Services, Nuisance & Environmental Health Division, 4001 S 6th St, 2nd floor, Milwaukee, WI 53221. (414)-286-3280, FAX (414)- 286-5165.

Please complete the following:

1. Name, title and phone number of facility representative to be contacted to gain entry for inspection.
   (If vacant and no owner representative is available list project supervisor and on site phone number.)

   Name Theresa Slyman

   Title Owner Phone # 216-269-5175

2. **A copy of the pre demolition/renovation asbestos inspection report which includes the name and certification number of the inspector must be available at all times during demolition/renovation activities. If this report is not available on site, provide the name, title and phone number of the appropriate facility representative for the Department of Neighborhood Services follow up.**

   Assumed all piping is ACM From Owner records

3. **Provide plans for each separate floor or work area with the required information for questions 4-11.**

4. All ACM to be thoroughly wetted before being disturbed?
   ☒ Yes ☐ No (attach written EPA permission for dry abatement)

5. Abatement method: ☐ Full containment (NPE System); ☐ Critical barrier glovebag;
   ☒ Negative pressure glovebag; ☐ Mini enclosure; ☐ Critical barrier containment;
   ☐ Class II exterior; ☐ Regulated area (no negative pressure; must provide negative exposure assessment with project plans) ☐ other (attach explanation)
   If more than one method to be used clearly indicate on the plans.
   (Definition guide available from the Department of Neighborhood Services))

6. Decontamination chamber provided?
   ☒ Yes (show number of stages and location(s) on plans) ☐ No (Attach explanation)

7. HEPA ventilators to be provided?
   ☐ Yes (Show number and locations on plans)
   (manometer may be required to verify -0.02 pressure differential on NPE systems)
   ☒ No (If other than negative pressure glove bag or Class II exterior work attach explanation)

8. Viewing windows to be provided?
   ☐ Yes (Show locations on the plans) ☒ No (Attach explanation)

9. Respirator to be used: ☒ ½ face; ☐ Full face; ☐ PAPR; ☐ Air line - pressure demand; ☐ Other

10. Employees state certified ☒ Yes ☐ No

11. Have you been convicted of violating any environmental or public health protection laws, including those related to Federal, State or local asbestos regulations, in the past 24 months? ☐ Yes ☒ No If YES, please explain

Explanation and comments for questions 4 – 11

12. Name and phone number of company/persons conducting the air clearance test for the project.

Larry Hussinger AMHI Services 262-353-8926

Check the appropriate method to be used: ☐ PCM ☐ TEM

13. Will there be an on-site independent consultant for the asbestos project? ☐ Yes ☒ No
If yes, please provide the following:
Company name and address

Name of on site representative

Cell phone/pager number

Responsibilities of representative

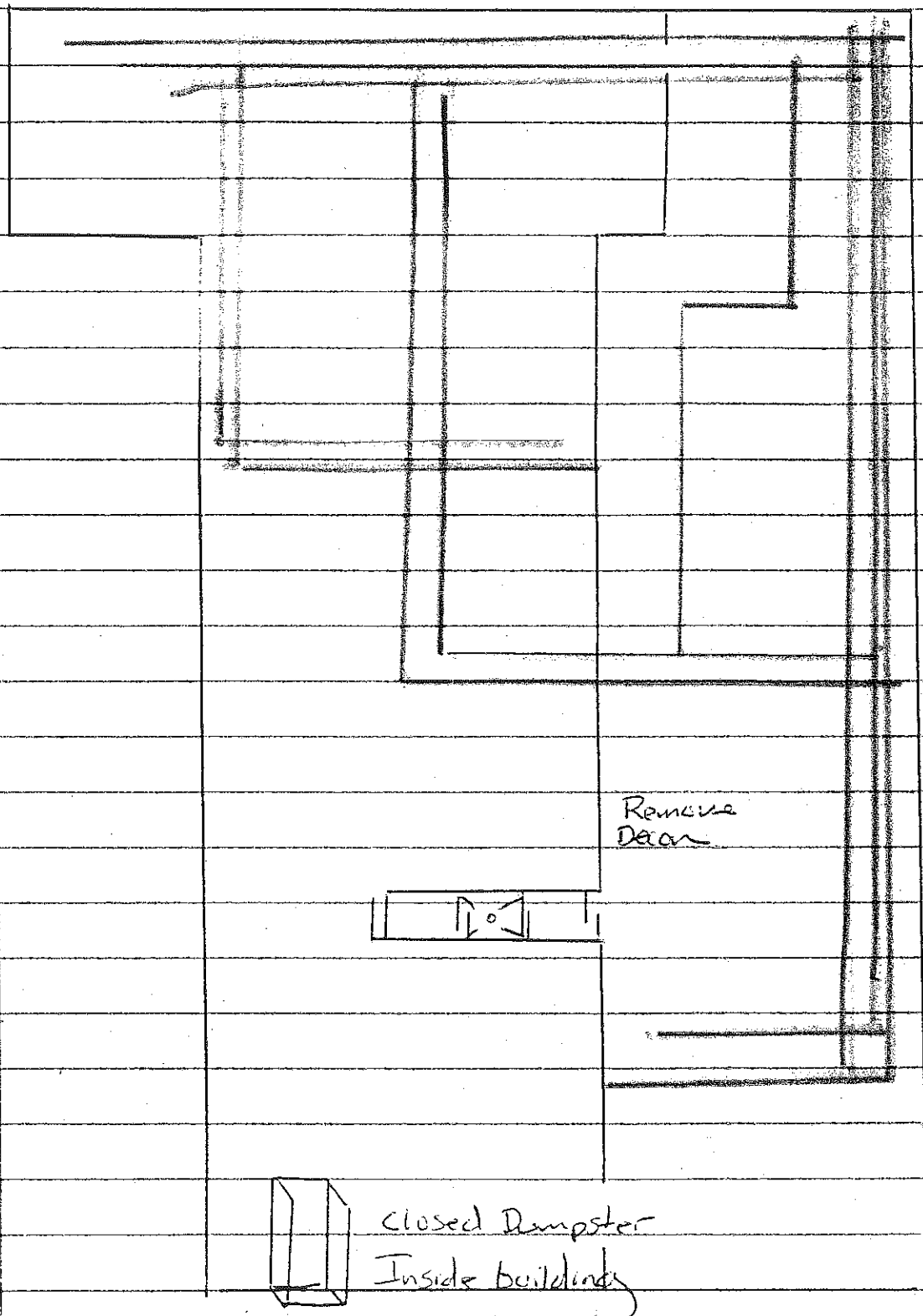
The undersigned agrees to inform the City of Milwaukee, Department of Neighborhood Services immediately of any changes in information supplied on this form. I have knowledge of the City Ordinances currently regulating the permit applied for herein and hereby state that all statements made in the foregoing form are true and correct. I have also read and am familiar with the standards related to asbestos abatement projects adopted by the Commissioner of Neighborhood Services.

**NOTE:** **This permit may be revoked or suspended for failure to comply with any city requirements relating to Asbestos Hazard Control.**

**Signature** John Hogan **Date** 9-15-08

Do Not Write Below Line

Permit No. _____ Amount _____ Name of Reviewer _____




Glovebag removal of Dried steam Lines

Some debris clean-up on floors

State of Wisconsin
Department of Natural Resources

# Notification of Demolition and/or Renovation and Application for Permit Exemption

Form 4500-113 Rev 06-05



**Notice:** Completion of this information is mandatory under ch. NR 406.04, 410.05 and 447.07, Wis. Adm. Code. Penalties for failure to provide complete information requested include forfeitures of $10 to $25,000, fines of up to $25,000 and imprisonment for up to six months. This form may be used to meet the notification requirements for the Department of Health and Family Services, Wis. Adm. Code 159. Personally identifiable information provided may be matched with other private, state, and federal agencies and may be made available to requestors under Wisconsin's Open Records Law.

**Submit Form:** Return completed form to the appropriate office(s) listed on page 2. The DNR does not accept FAXed copies of original or revised notifications.

SHADED AREAS ON THIS FORM ARE FOR DNR USE ONLY.

| 1. Contractor Project #: 0 | 2. Postmark: | 3. Date Received: | 4. DNR File #: |
|---|---|---|---|

**5. Type of Notification:**
☒ Original ☐ Revised ☐ Cancellation
☐ Emergency: Date/Hr Notified: ____
☐ Other (Explain): ____

**6. Type of Project:**
☐ Renovation/Abatement ☐ Emergency Renovation/Abatement
☐ Planned Renovation/Abatement (Annual)
☒ Demolition ☐ Ordered Demolition ☐ Fire Training Burn
Asbestos Present? (Circle one): ☒ Yes ☐ No

**7. Date (MM/DD/YY) of DNR Required Pre-Project Asbestos Inspection:**
Start: 9/05/08 End: 9/5/08

**8. Inspector Certification Information:**
Name: John Hogan WI Inspector #:All 404 Assumed From Owners Reports

**9. Dates (MM/DD/YY) of Asbestos Abatement:**
Start: 9/19/2008 End: 10/31/2008
Work Shift(s): ☒1 ☐2 ☐3 Weekend: ☐ Yes ☒ No

**10. Dates (MM/DD/YY) of Renovation/Demolition:**
Start: 9/19/2008 End: 12/30/2008
Work Shift(s): ☒1 ☐2 ☐3 Weekend: ☐ Yes ☒ No

**11. Abatement Contractor:**
Name: Veolia Environmental Services, Inc.
Address: N104 W13275 Donges Bay Road
City, St, Zip: Germantown, WI, 53022
Contact Person: John Hogan Telephone #: 262-236-8130

**12. Demolition Contractor:**
Name: NA
Address: ____
City, St, Zip: ____
Contact Person: ____ Telephone #: ____

**13. Facility Information:**
Name: Former Milwaukee Die Cast
Address: 4132 North Holten Street
City, St, Zip: Milwaukee, WI, 53212
Contact Person: Theresa Slyman Telephone #: 216-269-5175
Prior Use: Former Manufacturing Facility
Present Use: Not in use
Age (Yrs): 1951 Size (Sq.Ft.): Over 60,000
Number of Floors: Three Number of Apartment Units: NA
County: Waukesha DNR Region: North East
Number of structures to be demolished: NA

**14. Facility Owner:**
Name: Theresa Slyman
Address: nonresponsi
City, St, Zip: nonresp
Contact Person: Theresa Slyman Telephone #: 216-269-5175

**15. Waste Disposal Site/Transporter:**
Name: Glaciar Ridge Landfill
Address: N7926 Highway V
City, St, Zip: Horicon
Contact Person: John King Telephone #: 920-387-0987
DNR License Number: 4044

**16. Amount of Asbestos, including:**
A. Regulated Friable Asbestos/RACM to be removed.
B. Category I & II ACM TO BE removed.
C. Category I & II ACM NOT removed.

| | A. Friable Asbestos/RACM TO BE removed | B. Nonfriable Asbestos Material TO BE removed | | C. Nonfriable Asbestos Material NOT removed before demolition | |
|---|---|---|---|---|---|
| | | CAT I | CAT II | CAT I | CAT II |
| Pipes (Linear Feet) | 2000 | | | | |
| Surface Area ( Square Feet) | | | | | |
| Volume Friable ACM off facility component (Cubic Feet) | | | | | |

**17. Asbestos Abatement/Demolition Fees** - *Check or money order must be submitted with notification to DNR Asbestos Coordinator*

| Project Type | Quantities to be Abated<br>* Refer to Box 6 and Box 16 to determine fee submittal amount<br>* Make checks payable to WI Dept. of Natural Resources | Check Amount Due | Amount Rec'd By DNR |
|---|---|---|---|
| Demolition | Less than 160 square and 260 linear feet of friable or any amount of nonfriable ACM | ☐ $75 | |
| Reno/Demo | At least 160 sq. or 260 ln. ft. **friable asbestos/RACM** but less than 1000 combined feet | ☐ $225 | |
| Reno/Demo | Combined square & linear feet **friable asbestos/RACM** quantities of at least 1000 feet but less than 5000 feet | ☒ $400 | |
| Reno/Demo | Combined square & linear feet **friable asbestos/RACM** quantities of at least 5000 feet | ☐ $750 | |

18. Indicate the inspection procedure, including analytical methods, used to detect the presence or absence of the ACM
Owner records and identifications and or assumed ACM.

19. Description of the asbestos material involved and its location in the facility to be demolished/renovated:
Removal of damaged Asbestos pipe insulation on dead steam piping throughout the former Die casting area and clean up of a coupe of debris piles that may have some asbestos containing debris mixed in them.

20. Description of renovation/abatement and/or demolition work, including specific abatement/demolition method(s) to be used:
Hand removal methods inside glovebags in isolated areas.

21. Description of abatement work practices/engineering controls and waste handling procedures, specific to this site, used in preventing ACM emissions:
Isolate area, post danger signs, barrier tape, decon, Hepa-vac., OSHA monitoring, glovebags, pre-wet and maintain adequately wet, hepa-vac. double bag in labeled asbestos 6 mil. bags, label, dispose in landfill, PPE.

22. Description of procedures to be followed if asbestos not previously identified is found or previously nonfriable asbestos becomes crumbled, pulverized or reduced to a powder:
Isolate area, post danger signs and call in an licenced asbestos removal company to address the situation.

23. If an emergency abatement, complete the following information (attach additional sheets if necessary):

Date and Hour of Emergency: Date (MM/DD/YY): ___/___/___ Time (12Hr Clock): ____:____ ☐ a.m. ☐ p.m.

Description of sudden, unexpected event: ____

Explanation of how event caused unsafe condition, potential equipment damage or an unreasonable financial burden: ____

24. If an ordered demolition, identify the government agency issuing the order: (Attach a copy of the order.)

Name: ____ Title: ____

Authority: ____

Date of Order (MM/DD/YY): ___/___/___ Date Order to begin (MM/DD/YY): ___/___/0

25. I certify that an individual trained in the provisions of this regulation (40 CFR Part 61, Subpart M) will be on-site during the demolition/renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours.

Signature: John Hogan Title: Project Manager Date (MM/DD/YY): 9 / 5 / 08

26. I certify that the above submitted information is correct to the best of my knowledge:

Signature: John Hogan Title: Project Manager Date (MM/DD/YY): 9 / 5 / 08

27. Indicate which of the following agencies/offices were sent a copy of the demolition/renovation notification. DNR has been delegated notification authority - USEPA no longer requires a copy of the notification. Note: Dry asbestos removal requests must be pre-approved by DNR, prior to required notification.

☒ Department of Natural Resources
Asbestos Coordinator, AM/7
Bureau of Air Management
P.O. Box 7921
Madison, WI 53707-7921

☒ Department of Health & Family Services
Division of Public Health
Asbestos/Lead (Pb) Section
P.O. Box 2659
Madison, WI 53701-2659

Copy Southeast Region if work will be conducted within Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, or Waukesha Counties. Send copy to:

☒ Department of Natural Resources
Regional Asbestos Specialist
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, WI 53212

City of Milwaukee

**Department of Neighborhood Services**
Inspectional services for health, safety and neighborhood improvement

Martin G. Collins
Commissioner

Schuyler F. Seager
Deputy Commissioner

January 7, 2002

TO: All Asbestos Abatement Contractors

RE: **Guidelines Relative to Asbestos Abatement Conducted within City of Milwaukee: Department of Neighborhood Services Adopted Regulations**

Attached please find a listing of requirements, standards, guidelines, permits, licenses and certifications that the City of Milwaukee, Department of Neighborhood Services has adopted relative to enforcement in Milwaukee (Code of Ordinances 66-12). This information should be used as a reference guide by all asbestos abatement contractors for planning and performing asbestos abatement activities with the City of Milwaukee.

While not comprehensive, this list is meant to serve as a useful tool in providing resource information about required procedures while conducting asbestos abatement activities. The standards and regulations listed include environmental as well as occupational safety and health measures to be observed by any individual or firm conducting asbestos abatement.

Please do not hesitate to contact the Nuisance and Environmental Health Division at 286-8674 for further information should you have questions related to specific project plan specifications or site inspections.

Martin Collins
Commissioner of Department of
Neighborhood Services

David J Krey
Manager

841 N. Broadway • Milwaukee WI 53202 • 414.286.3441 • FAX 414.286.8667
www.ci.mil.wi.us • TDD 414.286.2025

## CITY OF MILWAUKEE DEPARTMENT OF NEIGHBORHOOD SERVICES
## NUISANCE & ENVIRONMENTAL HEALTH DIVISION

## "STANDARDS ADOPTED BY THE COMMISSIONER OF NEIGHBORHOOD SERVICES RELATED TO ASBESTOS PROJECTS"

The City of Milwaukee Department of Neighborhood Services is currently responsible for enforcement of MCO 66-12 related to Asbestos Hazard Control. The primary intent of the ordinance is to safeguard public health and the environment from hazardous forms and concentrations of asbestos.

A subchapter of the ordinance stipulates that an asbestos project permit and plan are required prior to conducting certain abatement activities. The Department of Neighborhood Services is responsible for review of all project plans and issuance of all project permits.

Below is a list of applicable federal, state and local requirements, standards, notices, permits and licenses that the Department of Neighborhood Services has adopted as standards and procedures to be observed during asbestos abatement activity. This list is subject to revision.

I. Federal requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include:

A. **U. S. Department of Labor, Occupational Safety and Health Administration (OSHA):**

1. Occupational Exposure to Asbestos, Tremolite, Anthophyllite and Actinolite; Final Rules, Title 29, Part 1926, Section 58 of the Code of Federal Regulations.

2. Respiratory Protection, Title 29, Part 1910, Section 134 of the Code of Federal Regulations.

3. Construction Industry, Title 29, Part 1926, of the Code of Federal Regulations.

4. Access to Employee Exposure and Medical Records, Title 29, Part 1910, Section 2 of the Code of Federal Regulations.

5. Hazard Communication, Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.

6. Specifications for Accident Prevention Signs and Tags, Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

B. **U. S. Environmental Protection Agency (EPA):**

1. Asbestos-Containing Materials in Schools, Title 40, Part 763 of the Code of Federal Regulations (AHERA).

2. National Emission Standards for Hazardous Air Pollutants Title 40, Part 61, Sub-parts A and M
Code of Federal Regulations.

3. Guidance for Controlling Asbestos-Containing Materials in Buildings (purple book) EPA 560/5-85-024.

4. A Building Owner's Guide to Operations and Maintenance Programs for Asbestos-Containing Materials (green book) EPA 20-T-2002

II. State Requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include:

A. **Certification of Asbestos Supervisors/Contractors/Workers Procedures for Asbestos Abatement Projects:**

DHSS Chapter 159
DEPARTMENT OF HEALTH & SOCIAL SERVICES
OCCUPATIONAL HEALTH SECTION
BUREAU OF ENVIRONMENTAL HEALTH
1414 E. WASHINGTON AVENUE, ROOM 112
MADISON, WISCONSIN 53703
(608) 267-2289

B. **Permits for Disposal Sites and Asbestos Waste Haulers:**

DEPARTMENT OF NATURAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT
P. O. BOX 7921
MADISON, WISCONSIN 53707
(608) 266-0811

III. Standards which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

A. **American National Standards Institute (ANSI)**

1. Fundamentals Governing the Design and Operation of Local Exhaust Systems - Publication Z9.2-79.

2. Practices for Respiratory Protection - Publication Z88.2-1992.

B. **American Society for Testing and Materials (ASTM)**

1. Specification for Encapsulants for Friable Asbestos-Containing Building Materials Proposal P-189.

2. Safety and Health Requirements Relating to Occupational Exposure to Asbestos E 849-82.

IV. Notices

A. **U. S. Environmental Protection Agency**

Send written notification as required by USEPA National Emission Standards for Hazardous Air Pollutants (NESHAPS), Asbestos Regulations (40CFR 61, Subpart M), to the Regional Asbestos NESHAPS Contact, at least 10 days prior to beginning any work on asbestos-containing materials.

Send notification to the following address:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
AIR COMPLIANCE BRANCH, 5AC
230 SOUTH DEARBORN STREET
CHICAGO, ILLINOIS 60605

B. **WISCONSIN**

Send "Notice of Intent to Demolish or Renovate a Building, Facility, Structure or Installation Containing Friable Asbestos Material", DNR Form to the following address:

1. DEPARTMENT OF NATURAL RESOURCES
BUREAU OF AIR MANAGEMENT
ASBESTOS COORDINATOR
BOX 7921
MADISON, WISCONSIN 53707

2. DAN SCHRAMM
SOUTHEAST DISTRICT
DEPARTMENT OF NATURAL RESOURCES
P. O. BOX 12436
MILWAUKEE, WISCONSIN 53201

3. STATE DIVISION OF HEALTH
ASBESTOS UNIT
BUREAU OF PUBLIC HEALTH
1414 EAST WASHINGTON AVENUE
MADISON, WI 53703

V. Permits - Asbestos Project Permit

1. DEPARTMENT OF NEIGHBORHOOD SERVICES
% PERMIT AND DEVELOPMENT CENTER
P. O. BOX 324 / 809 N BROADWAY
MILWAUKEE, WISCONSIN 53201

In addition, obtain all required permits for demolition, for construction and for transport and disposal of asbestos-containing or contaminated materials, supplies, etc. as dictated by municipal ordinance.

VI. Licenses

Maintain current licenses for contractor and certifications for workers as required by applicable state or local jurisdictions for the removal, transporting, disposal or other regulated activity relative to abatement work.

# City of Milwaukee
## Department of Neighborhood Services
## Environmental Section

No. DNS 1401
Date Issued: SEPTEMBER 15, 2008

**SEPTEMBER 19, 2008 - OCTOBER 31, 2008**
(Project Duration & Hours)

RE: 4132 N HOLTON ST

**THIS PERMIT IS VALID ONLY FOR THE NUMBER OF DAYS STATED AND FOR THE HOURS SPECIFIED HEREIN.**

**ISSUED TO:**

VEOLIA ES
N104W13275 DONGES BAY RD
GERMANTOWN WI 53022

This permit entitles the above named to remove asbestos at the above location in accordance with the Milwaukee Code of Ordinances and subject to any limitations under which the permit may be issued.

**POST THIS PERMIT**
**IN A CONSPICUOUS PLACE**
**AT THE PROJECT LOCATION**

### ASBESTOS PROJECT PERMIT

| | | |
|---|---|---|
| ☒ | PLAN EXAM FEE | $ 75.00 |

### PROJECT DURATION FEE

| | | |
|---|---|---|
| ☐ | 0-3 Days | $ |
| ☐ | 4 – 10 Days | $ |
| ☒ | Over 10 days | $ 440.00 |
| | **TOTAL PERMIT FEE** | **$ 515.00** |

☐ City Project – No Fee

☐ Permit Extension of Permit

809 N. Broadway
Milwaukee, WI 53201-0324
(414) 286-8211
www.mkedcd.org/build

[redacted]

# City of Milwaukee, Wisconsin
# APPLICATION FOR PERMIT

Former Milw. Die Cast 4132 North Holton St. Milw. WI. 53212
LOCATION (GIVE EXACT STREET ADDRESS)

Theresa Slyman [redacted] nonresponsive [redacted] nonresponsive [redacted] nonresponsive
OWNER'S NAME ADDRESS PHONE NO

Veolia Environmental Services, Inc. N104 W13275 Donges Bay Rd. Germantown, WI 53022 [redacted] nonresponsive
CONTRACTOR ADDRESS PHONE NO

Vacant / not going to be occupancy $ 35,000.00 to $ 40,000.00
OCCUPANCY USE OF BUILDING COST OF JOB

| TYPE OF PERMIT | FEE | State in Detail the Kind of Work to be Performed |
|---|---|---|
| **Asbestos Project Permit (900)** | | |
| ☐ 1 – 3 days ($150) + $75 plan review = **$225** | | |
| ☐ 4 – 10 days ($300) + $75 plan review = **$375** | | |
| ☐ >10 days ($440) + $75 plan review = **$515** | 515 | |
| ☐ **1% of cost**, if over $51,500 of abatement | | |
| ☐ Extension of Permit (# ) Amount | | |
| **Masonry Building Cleaning Permit (910)** | | |
| ☐ **$31** per day – number of days ( ) | | |
| **Backyard Pool Construction Permit (920)** | | I attest that the above information accurately describes the property and the proposed work to be performed on it. I agree to comply with all City of Milwaukee and State of Wisconsin codes applicable to the occupancy and work stated above. I understand that any falsification or misinformation may result in penalties prescribed in the Milwaukee Code of Ordinances. |
| ☐ **$38.00** for new installation | | |
| ☐ **$50.00** existing pool | | |
| **Public Pool Construction Permit (930)** | | **Note: This is not your permit This is an application only. Please do not begin this proje t until you receive your permit. For information call 286-328(** |
| ☐ $125 Full alteration plan review & permit | | |
| ☐ $94 Wading Pool full alteration plan review & permit | | |
| ☐ $55 Wading Pool partial alteration plan review & permit | | |
| ☐ $50 Partial alteration plan review & permit | | |
| ***Add $3 per permit to your payment to cover the permit processing fee | 3.00 | Signature of Applicant |
| **Total Fee** | 518 | |
| nature cked By John Hagen | | |

5 3

Nuisance & Environmental Health Division
**Asbestos Project Work Sheet**

Abatement Firm Veolia Environmental Services, Inc.
(Legal entity: corporation including registered agent, partnership or individual)

Project location 4132 North Hilton Street Milwaukee, WI. 53212
Project dates and times 9/19/08 – 10/31/08 Weekend Work ☐ Yes ☒ No
Amount of asbestos involved (including type and %) Assumed ACM / 3000 L.F. mag piping
Name of Project Manager on site & phone number Jesus Cruz 414-788-1312

**This work sheet must be completed by the abatement firm and attached to the project plans when submitted with the asbestos project permit application at least 5 working days before the start of abatement.** If assistance is required contact the City of Milwaukee Department of Neighborhood Services, Nuisance & Environmental Health Division, 4001 S 6th St, 2nd floor, Milwaukee, WI 53221. (414)-286-3280, FAX (414)- 286-5165.

Please complete the following:

1. Name, title and phone number of facility representative to be contacted to gain entry for inspection.
   (If vacant and no owner representative is available list project supervisor and on site phone number.)

   Name Theresa Slyman

   Title Owner Phone # 216-269-5175

2. **A copy of the pre demolition/renovation asbestos inspection report which includes the name and certification number of the inspector must be available at all times during demolition/renovation activities. If this report is not available on site, provide the name, title and phone number of the appropriate facility representative for the Department of Neighborhood Services follow up.**

   Assumed all piping is ACM From Owner records

3. **Provide plans for each separate floor or work area with the required information for questions 4-11.**

4. All ACM to be thoroughly wetted before being disturbed?
   ☒ Yes ☐ No (attach written EPA permission for dry abatement)

5. Abatement method: ☐ Full containment (NPE System); ☐ Critical barrier glovebag;
   ☒ Negative pressure glovebag; ☐ Mini enclosure; ☐ Critical barrier containment;
   ☐ Class II exterior; ☐ Regulated area (no negative pressure; must provide negative exposure assessment with project plans) ☐ other (attach explanation)
   If more than one method to be used clearly indicate on the plans.
   (Definition guide available from the Department of Neighborhood Services))

6. Decontamination chamber provided?
   ☒ Yes (show number of stages and location(s) on plans) ☐ No (Attach explanation)

7. HEPA ventilators to be provided?
   ☐ Yes (Show number and locations on plans)
   (manometer may be required to verify -0.02 pressure differential on NPE systems)
   ☒ No (If other than negative pressure glove bag or Class II exterior work attach explanation)

8. Viewing windows to be provided?
   ☐ Yes (Show locations on the plans) ☒ No (Attach explanation)

9. Respirator to be used: ☒ ½ face; ☐ Full face; ☐ PAPR; ☐ Air line - pressure demand; ☐ Other

10. Employees state certified ☒ Yes ☐ No

11. Have you been convicted of violating any environmental or public health protection laws, including those related to Federal, State or local asbestos regulations, in the past 24 months? ☐ Yes ☒ No If YES, please explain

Explanation and comments for questions 4 – 11

12. Name and phone number of company/persons conducting the air clearance test for the project.

Larry Hausslinger AMHI Services 262-353-8926

Check the appropriate method to be used: ☐ PCM ☐ TEM

13. Will there be an on-site independent consultant for the asbestos project? ☐ Yes ☒ No
If yes, please provide the following:
Company name and address

Name of on site representative

Cell phone/pager number

Responsibilities of representative

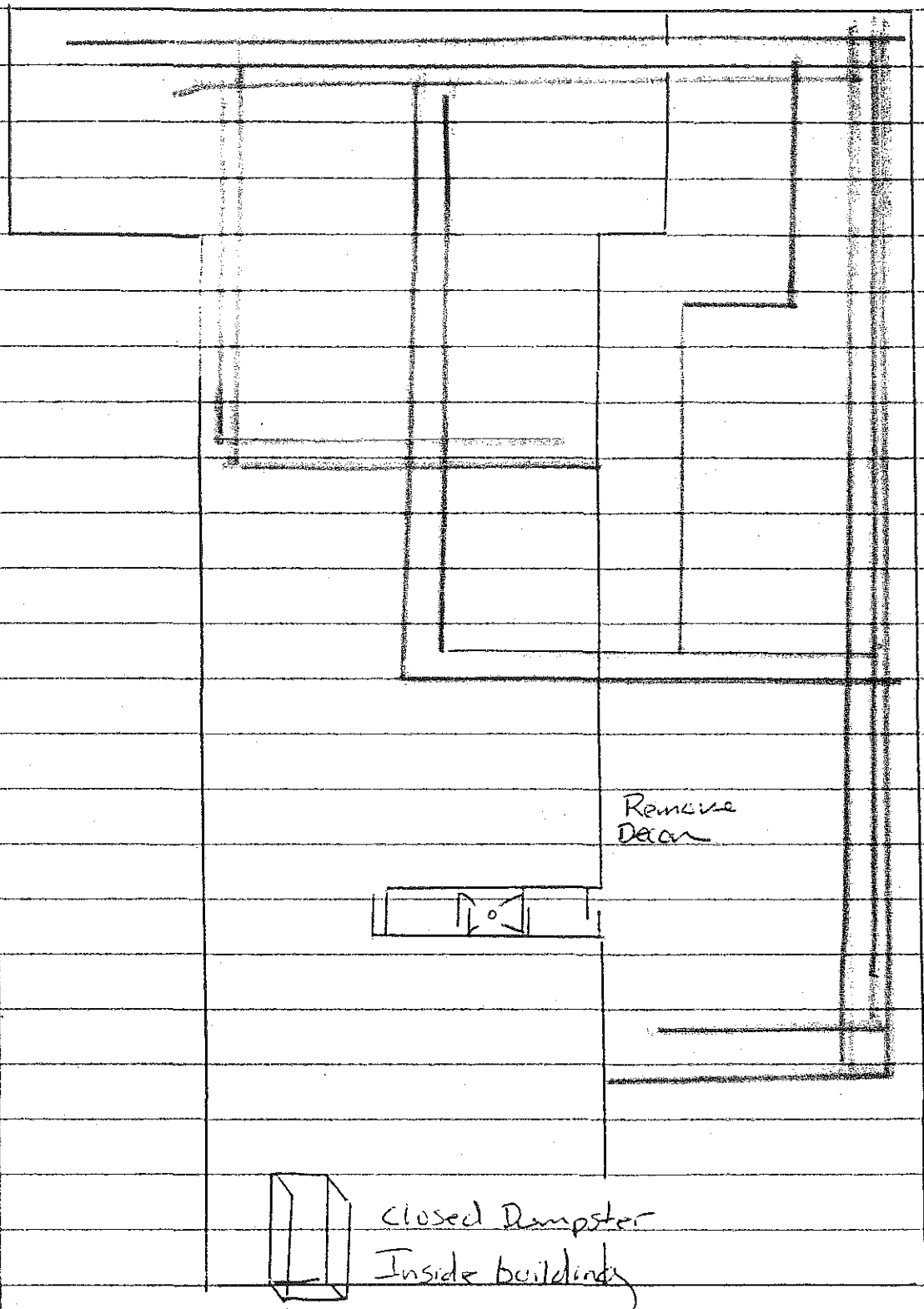
The undersigned agrees to inform the City of Milwaukee, Department of Neighborhood Services immediately of any changes in information supplied on this form. I have knowledge of the City Ordinances currently regulating the permit applied for herein and hereby state that all statements made in the foregoing form are true and correct. I have also read and am familiar with the standards related to asbestos abatement projects adopted by the Commissioner of Neighborhood Services.

**NOTE:** **This permit may be revoked or suspended for failure to comply with any city requirements relating to Asbestos Hazard Control.**

**Signature** John Hogan **Date** 9-15-08

Do Not Write Below Line

Permit No. _____ Amount _____ Name of Reviewer _____




Glovebag removal of Dried steam Lines

Some debris clean-up on floors

State of Wisconsin
Department of Natural Resources

# Notification of Demolition and/or Renovation and Application for Permit Exemption

Form 4500-113 Rev 06-05



**Notice:** Completion of this information is mandatory under ch. NR 406.04, 410.05 and 447.07, Wis. Adm. Code. Penalties for failure to provide complete information requested include forfeitures of $10 to $25,000, fines of up to $25,000 and imprisonment for up to six months. This form may be used to meet the information requirements for the Department of Health and Family Services, Wis. Adm. Code 159. Personally identifiable information provided may be matched with other private, state, and federal agencies and may be made available to requestors under Wisconsin's Open Records Law.

**Submit Form:** Return completed form to the appropriate office(s) listed on page 2. The DNR does not accept FAXed copies of original or revised notifications.

SHADED AREAS ON THIS FORM ARE FOR DNR USE ONLY.

| 1. Contractor Project #: 0 | 2. Postmark: | 3. Date Received: | 4. DNR File #: |
|---|---|---|---|

**5. Type of Notification:**
☒ Original ☐ Revised ☐ Cancellation
☐ Emergency: Date/Hr Notified: ____
☐ Other (Explain): ____

**6. Type of Project:**
☐ Renovation/Abatement ☐ Emergency Renovation/Abatement
☐ Planned Renovation/Abatement (Annual)
☒ Demolition ☐ Ordered Demolition ☐ Fire Training Burn
Asbestos Present? (Circle one): ☒ Yes ☐ No

**7. Date (MM/DD/YY) of DNR Required Pre-Project Asbestos Inspection:**
Start: 9/05/08 End: 9/5/08

**8. Inspector Certification Information:**
Name: John Hogan WI Inspector #: All 404 Assumed From Owners Reports

**9. Dates (MM/DD/YY) of Asbestos Abatement:**
Start: 9/19/2008 End: 10/31/2008
Work Shift(s): ☒1 ☐2 ☐3 Weekend: ☐ Yes ☒ No

**10. Dates (MM/DD/YY) of Renovation/Demolition:**
Start: 9/19/2008 End: 12/30/2008
Work Shift(s): ☒1 ☐2 ☐3 Weekend: ☐ Yes ☒ No

**11. Abatement Contractor:**
Name: Veolia Environmental Services, Inc.
Address: N104 W13275 Donges Bay Road
City, St, Zip: Germantown, WI. 53022
Contact Person: John Hogan Telephone #: 262-236-8130

**12. Demolition Contractor:**
Name: NA
Address: ____
City, St, Zip: ____
Contact Person: ____ Telephone #: ____

**13. Facility Information:**
Name: Former Milwaukee Die Cast
Address: 4132 North Holten Street
City, St, Zip: Milwaukee, WI. 53212
Contact Person: Theresa Slyman Telephone #: 216-269-5175
Prior Use: Former Manufacturing Facility
Present Use: Not in use
Age (Yrs): 1951 Size (Sq.Ft.): Over 60,000
Number of Floors: Three Number of Apartment Units: NA
County: Waukesha DNR Region: North East
Number of structures to be demolished: NA

**14. Facility Owner:**
Name: Theresa Slyman
Address: [redacted]
City, St, Zip: [redacted]
Contact Person: Theresa Slyman Telephone #: 216-269-5175

**15. Waste Disposal Site/Transporter:**
Name: Glaciar Ridge Landfill
Address: N7926 Highway V
City, St, Zip: Horicon
Contact Person: John King Telephone #: 920-387-0987
DNR License Number: 4044

**16. Amount of Asbestos, including:**
A. Regulated Friable Asbestos/RACM to be removed.
B. Category I & II ACM TO BE removed.
C. Category I & II ACM NOT removed.

| | A. Friable Asbestos/RACM TO BE removed | B. Nonfriable Asbestos Material TO BE removed | | C. Nonfriable Asbestos Material NOT removed before demolition | |
|---|---|---|---|---|---|
| | | CAT I | CAT II | CAT I | CAT II |
| Pipes (Linear Feet) | 2000 | | | | |
| Surface Area (Square Feet) | | | | | |
| Volume Friable ACM off facility component (Cubic Feet) | | | | | |

**17. Asbestos Abatement/Demolition Fees** - *Check or money order must be submitted with notification to DNR Asbestos Coordinator*

| Project Type | Quantities to be Abated<br>* Refer to Box 6 and Box 16 to determine fee submittal amount<br>* Make checks payable to WI Dept. of Natural Resources | Check Amount Due | Amount Rec'd By DNR |
|---|---|---|---|
| Demolition | Less than 160 square and 260 linear feet of friable or any amount of nonfriable ACM | ☐ $75 | |
| Reno/Demo | At least 160 sq. or 260 ln. ft. **friable asbestos/RACM** but less than 1000 combined feet | ☐ $225 | |
| Reno/Demo | Combined square & linear feet **friable asbestos/RACM** quantities of at least 1000 feet but less than 5000 feet | ☒ $400 | |
| Reno/Demo | Combined square & linear feet **friable asbestos/RACM** quantities of at least 5000 feet | ☐ $750 | |

18. Indicate the inspection procedure, including analytical methods, used to detect the presence or absence of the ACM
Owner records and identifications and or assumed ACM.

19. Description of the asbestos material involved and its location in the facility to be demolished/renovated:
Removal of damaged Asbestos pipe insulation on dead steam piping throughout the former Die casting area and clean up of a coupe of debris piles that may have some asbestos containing debris mixed in them.

20. Description of renovation/abatement and/or demolition work, including specific abatement/demolition method(s) to be used:
Hand removal methods inside glovebags in isolated areas.

21. Description of abatement work practices/engineering controls and waste handling procedures, specific to this site, used in preventing ACM emissions:
Isolate area, post danger signs, barrier tape, decon, Hepa-vac., OSHA monitoring, glovebags, pre-wet and maintain adequately wet, hepa-vac. double bag in labeled asbestos 6 mil. bags, label, dispose in landfill, PPE.

22. Description of procedures to be followed if asbestos not previously identified is found or previously nonfriable asbestos becomes crumbled, pulverized or reduced to a powder:
Isolate area, post danger signs and call in an licenced asbestos removal company to address the situation.

23. If an emergency abatement, complete the following information (attach additional sheets if necessary):

Date and Hour of Emergency: Date (MM/DD/YY): ___/___/___ Time (12Hr Clock): ___:___ ☐ a.m. ☐ p.m.

Description of sudden, unexpected event: ___

Explanation of how event caused unsafe condition, potential equipment damage or an unreasonable financial burden: ___

24. If an ordered demolition, identify the government agency issuing the order: (Attach a copy of the order.)

Name: ___ Title: ___

Authority: ___

Date of Order (MM/DD/YY): ___/___/___ Date Order to begin (MM/DD/YY): ___/___/0

25. I certify that an individual trained in the provisions of this regulation (40 CFR Part 61, Subpart M) will be on-site during the demolition/renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours.

Signature: John Hogan Title: Project Manager Date (MM/DD/YY): 9/5/08

26. I certify that the above submitted information is correct to the best of my knowledge:

Signature: John Hogan Title: Project Manager Date (MM/DD/YY): 9/5/08

27. Indicate which of the following agencies/offices were sent a copy of the demolition/renovation notification. DNR has been delegated notification authority - USEPA no longer requires a copy of the notification. Note: Dry asbestos removal requests must be pre-approved by DNR, prior to required notification.

☒ Department of Natural Resources
Asbestos Coordinator, AM/7
Bureau of Air Management
P.O. Box 7921
Madison, WI 53707-7921

☒ Department of Health & Family Services
Division of Public Health
Asbestos/Lead (Pb) Section
P.O. Box 2659
Madison, WI 53701-2659

Copy Southeast Region if work will be conducted within Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, or Waukesha Counties. Send copy to:

☒ Department of Natural Resources
Regional Asbestos Specialist
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, WI 53212

City of Milwaukee

**Department of Neighborhood Services**
Inspectional services for health, safety and neighborhood improvement

Martin G. Collins
Commissioner

Schuyler F. Seager
Deputy Commissioner

January 7, 2002

TO: All Asbestos Abatement Contractors

RE: **Guidelines Relative to Asbestos Abatement Conducted within City of Milwaukee: Department of Neighborhood Services Adopted Regulations**

Attached please find a listing of requirements, standards, guidelines, permits, licenses and certifications that the City of Milwaukee, Department of Neighborhood Services has adopted relative to enforcement in Milwaukee (Code of Ordinances 66-12). This information should be used as a reference guide by all asbestos abatement contractors for planning and performing asbestos abatement activities with the City of Milwaukee.

While not comprehensive, this list is meant to serve as a useful tool in providing resource information about required procedures while conducting asbestos abatement activities. The standards and regulations listed include environmental as well as occupational safety and health measures to be observed by any individual or firm conducting asbestos abatement.

Please do not hesitate to contact the Nuisance and Environmental Health Division at 286-8674 for further information should you have questions related to specific project plan specifications or site inspections.

Martin Collins
Commissioner of Department of
Neighborhood Services

David J Krey
Manager

841 N. Broadway • Milwaukee WI 53202 • 414.286.3441 • FAX 414.286.8667
www.ci.mil.wi.us • TDD 414.286.2025

# CITY OF MILWAUKEE DEPARTMENT OF NEIGHBORHOOD SERVICES
# NUISANCE & ENVIRONMENTAL HEALTH DIVISION

## "STANDARDS ADOPTED BY THE COMMISSIONER OF NEIGHBORHOOD SERVICES RELATED TO ASBESTOS PROJECTS"

The City of Milwaukee Department of Neighborhood Services is currently responsible for enforcement of MCO 66-12 related to Asbestos Hazard Control. The primary intent of the ordinance is to safeguard public health and the environment from hazardous forms and concentrations of asbestos.

A subchapter of the ordinance stipulates that an asbestos project permit and plan are required prior to conducting certain abatement activities. The Department of Neighborhood Services is responsible for review of all project plans and issuance of all project permits.

Below is a list of applicable federal, state and local requirements, standards, notices, permits and licenses that the Department of Neighborhood Services has adopted as standards and procedures to be observed during asbestos abatement activity. This list is subject to revision.

I. Federal requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include:

A. **U. S. Department of Labor, Occupational Safety and Health Administration (OSHA):**

1. Occupational Exposure to Asbestos, Tremolite, Anthophyllite and Actinolite; Final Rules, Title 29, Part 1926, Section 58 of the Code of Federal Regulations.

2. Respiratory Protection, Title 29, Part 1910, Section 134 of the Code of Federal Regulations.

3. Construction Industry, Title 29, Part 1926, of the Code of Federal Regulations.

4. Access to Employee Exposure and Medical Records, Title 29, Part 1910, Section 2 of the Code of Federal Regulations.

5. Hazard Communication, Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.

6. Specifications for Accident Prevention Signs and Tags, Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

B. **U. S. Environmental Protection Agency (EPA):**

1. Asbestos-Containing Materials in Schools, Title 40, Part 763 of the Code of Federal Regulations (AHERA).

2. National Emission Standards for Hazardous Air Pollutants Title 40, Part 61, Sub-parts A and M
Code of Federal Regulations.

3. Guidance for Controlling Asbestos-Containing Materials in Buildings (purple book) EPA 560/5-85-024.

4. A Building Owner's Guide to Operations and Maintenance Programs for Asbestos-Containing Materials (green book) EPA 20-T-2002

II. State Requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include:

A. **Certification of Asbestos Supervisors/Contractors/Workers Procedures for Asbestos Abatement Projects:**

DHSS Chapter 159
DEPARTMENT OF HEALTH & SOCIAL SERVICES
OCCUPATIONAL HEALTH SECTION
BUREAU OF ENVIRONMENTAL HEALTH
1414 E. WASHINGTON AVENUE, ROOM 112
MADISON, WISCONSIN 53703
(608) 267-2289

B. **Permits for Disposal Sites and Asbestos Waste Haulers:**

DEPARTMENT OF NATURAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT
P. O. BOX 7921
MADISON, WISCONSIN 53707
(608) 266-0811

III. Standards which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

A. American National Standards Institute (ANSI)

1. Fundamentals Governing the Design and Operation of Local Exhaust Systems - Publication Z9.2-79.

2. Practices for Respiratory Protection - Publication Z88.2-1992.

B. **American Society for Testing and Materials (ASTM)**

1. Specification for Encapsulants for Friable Asbestos-Containing Building Materials Proposal P-189.

2. Safety and Health Requirements Relating to Occupational Exposure to Asbestos E 849-82.

IV. Notices

A. **U. S. Environmental Protection Agency**

Send written notification as required by USEPA National Emission Standards for Hazardous Air Pollutants (NESHAPS), Asbestos Regulations (40CFR 61, Subpart M), to the Regional Asbestos NESHAPS Contact, at least 10 days prior to beginning any work on asbestos-containing materials.

Send notification to the following address:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
AIR COMPLIANCE BRANCH, 5AC
230 SOUTH DEARBORN STREET
CHICAGO, ILLINOIS 60605

B. **WISCONSIN**

Send "Notice of Intent to Demolish or Renovate a Building, Facility, Structure or Installation Containing Friable Asbestos Material", DNR Form to the following address:

1. DEPARTMENT OF NATURAL RESOURCES
BUREAU OF AIR MANAGEMENT
ASBESTOS COORDINATOR
BOX 7921
MADISON, WISCONSIN 53707

2. DAN SCHRAMM
SOUTHEAST DISTRICT
DEPARTMENT OF NATURAL RESOURCES
P. O. BOX 12436
MILWAUKEE, WISCONSIN 53201

3. STATE DIVISION OF HEALTH
ASBESTOS UNIT
BUREAU OF PUBLIC HEALTH
1414 EAST WASHINGTON AVENUE
MADISON, WI 53703

V. Permits - Asbestos Project Permit

1. DEPARTMENT OF NEIGHBORHOOD SERVICES
% PERMIT AND DEVELOPMENT CENTER
P. O. BOX 324 / 809 N BROADWAY
MILWAUKEE, WISCONSIN 53201

In addition, obtain all required permits for demolition, for construction and for transport and disposal of asbestos-containing or contaminated materials, supplies, etc. as dictated by municipal ordinance.

VI. Licenses

Maintain current licenses for contractor and certifications for workers as required by applicable state or local jurisdictions for the removal, transporting, disposal or other regulated activity relative to abatement work.

VEOLIA
ENVIRONMENTAL SERVICES

INDUSTRIAL SERVICES
NORTH AMERICA

December 4, 2008

Former Milwaukee Die Cast
4132 North Holten Street
Milwaukee, WI 53212

Re: Former Die Cast Buildings
Profile: 490741A.08.349

Dear Mr. Verburg:

This letter is to notify you that all asbestos containing materials specified for abatement at 4132 North Holten Street, Milwaukee, WI have been properly abated.

All of the work was performed by State certified asbestos personnel following all Local, State and Federal regulations. All work practices outlined in your specification were followed. The waste was properly manifested and was disposed of at an approved DNR landfill. Both personal & stationary air samples were taken during our work. All proper documentation such as waste manifests, air sample results, and personnel training information is provided within the enclosed post project submittal.

I would like to take this time to thank you for allowing Veolia Environmental Services the opportunity to perform our services for you. If you have any additional questions or concerns, please feel free to contact me.

Very Truly Yours,

Naomi Treiterer

Naomi Treiterer
Veolia Environmental Services

Veolia ES Industrial Services, Inc.
N104 W13275 Donges Bay Road, Germantown, WI 53022
tel: 262 236 8130 - fax: 262 242 1244
www.VeoliaES.com

State of Wisconsin
Department of Natural Resources

# Notification of Demolition and/or Renovation and Application for Permit Exemption

Form 4500-113 Rev 06-05 

**Notice:** Completion of this information is mandatory under ch. NR 406.04, 410.05 and 447.07, Wis. Adm. Code. Penalties for failure to provide complete information requested include forfeitures of $10 to $25,000, fines of up to $25,000 and imprisonment for up to six months. This form may be used to meet the notification requirements for the Department of Health and Family Services, Wis. Adm. Code 159. Personally identifiable information provided may be matched with other private, state, and federal agencies and may be made available to requestors under Wisconsin's Open Records Law.
**Submit Form:** Return completed form to the appropriate office(s) listed on page 2. The DNR does not accept FAXed copies of original or revised notifications.

SHADED AREAS ON THIS FORM ARE FOR DNR USE ONLY.

| 1. Contractor Project #: A08.349 | 2. Postmark: | 3. Date Received: | 4. DNR File #: |
|---|---|---|---|

**5. Type of Notification:**
☒ Original ☐ Revised ☐ Cancellation
☐ Emergency: Date/Hr Notified: ____
☐ Other (Explain): ____

**6. Type of Project:**
☐ Renovation/Abatement ☐ Emergency Renovation/Abatement
☐ Planned Renovation/Abatement (Annual)
☒ Demolition ☐ Ordered Demolition ☐ Fire Training Burn
Asbestos Present? (Circle one): ☒ Yes ☐ No

**7. Date (MM/DD/YY) of DNR Required Pre-Project Asbestos Inspection:**
Start: 9/05/08 End: 9/5/08

**8. Inspector Certification Information:**
Name: John Hogan Wi Inspector #: All 404 Assumed From Owners Reports

**9. Dates (MM/DD/YY) of Asbestos Abatement:**
Start: 9/19/2008 End: 10/31/2008
Work Shift(s): ☒1 ☐2 ☐3 Weekend: ☐ Yes ☒ No

**10. Dates (MM/DD/YY) of Renovation/Demolition:**
Start: 9/19/2008 End: 12/30/2008
Work Shift(s): ☒1 ☐2 ☐3 Weekend: ☐ Yes ☒ No

**11. Abatement Contractor:**
Name: Veolia Environmental Services, Inc.
Address: N104 W13275 Donges Bay Road
City, St, Zip: Germantown, WI. 53022
Contact Person: John Hogan Telephone #: 262-236-8130

**12. Demolition Contractor:**
Name: NA
Address: ____
City, St, Zip: ____
Contact Person: ____ Telephone #: ____

**13. Facility Information:**
Name: Former Milwaukee Die Cast
Address 4132 North Holten Street
City, St, Zip: Milwaukee, WI. 53212
Contact Person: Theresa Slyman Telephone #: 216-269-5175
Prior Use: Former Manufacturing Facility
Present Use: Not in use
Age (Yrs): 1951 Size (Sq.Ft.): Over 60,000
Number of Floors: Three Number of Apartment Units: NA
County: Waukesha DNR Region: North East
Number of structures to be demolished: NA

**14. Facility Owner:**
Name: Theresa Slyman
Address: nonresponsi
City, St, Zip: nonresponsi
Contact Person: Theresa Slyman Telephone #: 216-269-5175

**15. Waste Disposal Site/Transporter:**
Name: Glaciar Ridge Landfill
Address: N7926 Highway V
City, St, Zip: Horicon
Contact Person: John King Telephone #: 920-387-0987
DNR License Number: 4044

**16. Amount of Asbestos, including:**
A. Regulated Friable Asbestos/RACM to be removed.
B. Category I & II ACM TO BE removed.
C. Category I & II ACM NOT removed.

| | A. Friable Asbestos/RACM TO BE removed | B. Nonfriable Asbestos Material TO BE removed | | C. Nonfriable Asbestos Material NOT removed before demolition | |
|---|---|---|---|---|---|
| | | CAT I | CAT II | CAT I | CAT II |
| Pipes (Linear Feet) | 2000 | | | | |
| Surface Area ( Square Feet) | | | | | |
| Volume Friable ACM off facility component (Cubic Feet) | | | | | |

**17. Asbestos Abatement/Demolition Fees** - ***Check or money order must be submitted with notification to DNR Asbestos Coordinator***

| Project Type | Quantities to be Abated<br>* Refer to Box 6 and Box 16 to determine fee submittal amount<br>* Make checks payable to WI Dept. of Natural Resources | Check Amount Due | Amount Rec'd By DNR |
|---|---|---|---|
| Demolition | Less than 160 square and 260 linear feet of friable or any amount of nonfriable ACM | ☐ $75 | |
| Reno/Demo | At least 160 sq. or 260 ln. ft. **friable asbestos/RACM** but less than 1000 combined feet | ☐ $225 | |
| Reno/Demo | Combined square & linear feet **friable asbestos/RACM** quantities of at least 1000 feet but less than 5000 feet | ☒ $400 | |
| Reno/Demo | Combined square & linear feet **friable asbestos/RACM** quantities of at least 5000 feet | ☐ $750 | |

18. Indicate the inspection procedure, including analytical methods, used to detect the presence or absence of the ACM
Owner records and identifications and or assumed ACM.

19. Description of the asbestos material involved and its location in the facility to be demolished/renovated:
Removal of damaged Asbestos pipe insulation on dead steam piping throughout the former Die casting area and clean up of a coupe of debris piles that may have some asbestos containing debris mixed in them.

20. Description of renovation/abatement and/or demolition work, including specific abatement/demolition method(s) to be used:
Hand removal methods inside glovebags in isolated areas.

21. Description of abatement work practices/engineering controls and waste handling procedures, specific to this site, used in preventing ACM emissions:
Isolate area, post danger signs, barrier tape, decon, Hepa-vac., OSHA monitoring, glovebags, pre-wet and maintain adequately wet, hepa-vac. double bag in labeled asbestos 6 mil. bags, label, dispose in landfill, PPE.

22. Description of procedures to be followed if asbestos not previously identified is found or previously nonfriable asbestos becomes crumbled, pulverized or reduced to a powder:
Isolate area, post danger signs and call in an licenced asbestos removal company to address the situation.

23. If an emergency abatement, complete the following information (attach additional sheets if necessary):

Date and Hour of Emergency: Date (MM/DD/YY): ___/___/___ Time (12Hr Clock): ____:____ ☐ a.m. ☐ p.m.

Description of sudden, unexpected event: ____

Explanation of how event caused unsafe condition, potential equipment damage or an unreasonable financial burden: ____

24. If an ordered demolition, identify the government agency issuing the order: (Attach a copy of the order.)

Name: ____ Title: ____

Authority: ____

Date of Order (MM/DD/YY): ___/___/___ Date Order to begin (MM/DD/YY): ___/___/0

25. I certify that an individual trained in the provisions of this regulation (40 CFR Part 61, Subpart M) will be on-site during the demolition/renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours.

Signature: John Hogan Title: Project manager Date (MM/DD/YY): 9 / 5 / 08

26. I certify that the above submitted information is correct to the best of my knowledge:

Signature: John Hogan Title: Project manager Date (MM/DD/YY): 9 / 5 / 08

27. Indicate which of the following agencies/offices were sent a copy of the demolition/renovation notification. DNR has been delegated notification authority - USEPA no longer requires a copy of the notification. Note: Dry asbestos removal requests must be pre-approved by DNR, prior to required notification.

☒ Department of Natural Resources
Asbestos Coordinator, AM/7
Bureau of Air Management
P.O. Box 7921
Madison, WI 53707-7921

☒ Department of Health & Family Services
Division of Public Health
Asbestos/Lead (Pb) Section
P.O. Box 2659
Madison, WI 53701-2659

Copy Southeast Region if work will be conducted within Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, or Waukesha Counties. **Send copy to:**

☒ Department of Natural Resources
Regional Asbestos Specialist
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, WI 53212

# City of Milwaukee
## Department of Neighborhood Services
## Environmental Section

No. DNS 1401
Date Issued: SEPTEMBER 15, 2008

SEPTEMBER 19, 2008 - OCTOBER 31, 2008
(Project Duration & Hours)

RE: 4132 N HOLTON ST

**THIS PERMIT IS VALID ONLY FOR THE NUMBER OF DAYS STATED AND FOR THE HOURS SPECIFIED HEREIN.**

ISSUED TO:

VEOLIA ES
N104W13275 DONGES BAY RD
GERMANTOWN WI 53022

This permit entitles the above named to remove asbestos at the above location in accordance with the Milwaukee Code of Ordinances and subject to any limitations under which the permit may be issued.

**POST THIS PERMIT IN A CONSPICUOUS PLACE AT THE PROJECT LOCATION**

### ASBESTOS PROJECT PERMIT

| | | |
|---|---|---|
| ☒ | PLAN EXAM FEE | $ 75.00 |

### PROJECT DURATION FEE

| | | |
|---|---|---|
| ☐ | 0-3 Days | $ |
| ☐ | 4 – 10 Days | $ |
| ☒ | Over 10 days | $ 440.00 |
| | **TOTAL PERMIT FEE** | **$ 515.00** |

☐ City Project – No Fee

☐ Permit Extension of Permit

809 N. Broadway
Milwaukee, WI 53201-0324
(414) 286-8211
www.mkedcd.org/build

[redacted]

# City of Milwaukee, Wisconsin
# APPLICATION FOR PERMIT

Former Milw. Die Cast 4132 North Holten St. Milw. WI. 53212
LOCATION (GIVE EXACT STREET ADDRESS)

Theresa Slyman [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]
OWNER'S NAME ADDRESS PHONE NO

Veolia Environmental Services, Inc. N104 W13275 Donges Bay Rd. German[redacted] [redacted]
CONTRACTOR ADDRESS PHONE NO

Vacant / not going to be occupancy $ 35,000.00 to $ 40,000.00
OCCUPANCY USE OF BUILDING COST OF JOB

| TYPE OF PERMIT | FEE | State in Detail the Kind of Work to be Performed |
|---|---|---|
| **Asbestos Project Permit (900)** | | |
| ☐ 1 – 3 days ($150) + $75 plan review = $225 | | |
| ☐ 4 – 10 days ($300) + $75 plan review = $375 | | |
| ☐ >10 days ($440) + $75 plan review = $515 | 515 | |
| ☐ 1% of cost, if over $51,500 of abatement | | |
| ☐ Extension of Permit (# ) Amount | | |
| **Masonry Building Cleaning Permit (910)** | | |
| ☐ $31 per day – number of days ( ) | | |
| **Backyard Pool Construction Permit (920)** | | I attest that the above information accurately describes the property and the proposed work to be performed on it. I agree to comply with all City of Milwaukee and State of Wisconsin codes applicable to the occupancy and work stated above. I understand that any falsification or misinformation may result in penalties prescribed in the Milwaukee Code of Ordinances. |
| ☐ $38.00 for new installation | | |
| ☐ $50.00 existing pool | | |
| **Public Pool Construction Permit (930)** | | **Note: This is not your permit. This is an application only. Please do not begin this project until you receive your permit. For information call 286-3280.** |
| ☐ $125 Full alteration plan review & permit | | |
| ☐ $94 Wading Pool full alteration plan review & permit | | |
| ☐ $55 Wading Pool partial alteration plan review & permit | | |
| ☐ $50 Partial alteration plan review & permit | | |
| ***Add $3 per permit to your payment to cover the permit processing fee | 3.00 | Signature of Applicant |
| **Total Fee** | 518 | |
| Signature Checked By John Hogan | | |

5/08

City of Milwaukee Department of Neighborhood Services
Nuisance & Environmental Health Division
**Asbestos Project Work Sheet**

Abatement Firm Veolia Environmental Services, Inc.
(Legal entity: corporation including registered agent, partnership or individual)

Project location 4132 North Hilton Street Milwaukee, WI. 53212
Project dates and times 9/14/08 – 10/31/08 Weekend Work ☐ Yes ☒ No
Amount of asbestos involved (including type and %) Assumed ACM / 3000 L.F. max piping
Name of Project Manager on site & phone number Jesus Cruz 414-788-1312

**This work sheet must be completed by the abatement firm and attached to the project plans when submitted with the asbestos project permit application at least 5 working days before the start of abatement.** If assistance is required contact the City of Milwaukee Department of Neighborhood Services, Nuisance & Environmental Health Division, 4001 S 6th St, 2nd floor, Milwaukee, WI 53221. (414)-286-3280, FAX (414)- 286-5165.

Please complete the following:

1. Name, title and phone number of facility representative to be contacted to gain entry for inspection.
(If vacant and no owner representative is available list project supervisor and on site phone number.)

Name Theresa Slyman

Title Owner Phone # 216-269-5175

2. **A copy of the pre demolition/renovation asbestos inspection report which includes the name and certification number of the inspector must be available at all times during demolition/renovation activities. If this report is not available on site, provide the name, title and phone number of the appropriate facility representative for the Department of Neighborhood Services follow up.**

Assumed all piping is ACM From Owner records

3. **Provide plans for each separate floor or work area with the required information for questions 4-11.**

4. All ACM to be thoroughly wetted before being disturbed?
☒ Yes ☐ No (attach written EPA permission for dry abatement)

5. Abatement method: ☐ Full containment (NPE System); ☐ Critical barrier glovebag;
☒ Negative pressure glovebag; ☐ Mini enclosure; ☐ Critical barrier containment;
☐ Class II exterior; ☐ Regulated area (no negative pressure; must provide negative exposure assessment with project plans) ☐ other (attach explanation)
If more than one method to be used clearly indicate on the plans.
(Definition guide available from the Department of Neighborhood Services))

6. Decontamination chamber provided?
☒ Yes (show number of stages and location(s) on plans) ☐ No (Attach explanation)

7. HEPA ventilators to be provided?
☐ Yes (Show number and locations on plans)
(manometer may be required to verify -0.02 pressure differential on NPE systems)
☒ No (If other than negative pressure glove bag or Class II exterior work attach explanation)

8. Viewing windows to be provided?
☐ Yes (Show locations on the plans) ☒ No (Attach explanation)

9. Respirator to be used: ☒ ½ face; ☐ Full face; ☐ PAPR; ☐ Air line - pressure demand; ☐ Other

10. Employees state certified ☒ Yes ☐ No

11. Have you been convicted of violating any environmental or public health protection laws, including those related to Federal, State or local asbestos regulations, in the past 24 months? ☐ Yes ☒ No If YES, please explain

_____

_____

Explanation and comments for questions 4 – 11 _____

_____

_____

_____

_____

_____

_____

_____

12. Name and phone number of company/persons conducting the air clearance test for the project.

Larry Hasslinger AmHJ Services 262-353-8926

Check the appropriate method to be used: ☐ PCM ☐ TEM

13. Will there be an on-site independent consultant for the asbestos project? ☐ Yes ☒ No
If yes, please provide the following:
Company name and address _____

Name of on site representative _____

Cell phone/pager number _____

Responsibilities of representative _____

The undersigned agrees to inform the City of Milwaukee, Department of Neighborhood Services immediately of any changes in information supplied on this form. I have knowledge of the City Ordinances currently regulating the permit applied for herein and hereby state that all statements made in the foregoing form are true and correct. I have also read and am familiar with the standards related to asbestos abatement projects adopted by the Commissioner of Neighborhood Services.

NOTE: **This permit may be revoked or suspended for failure to comply with any city requirements relating to Asbestos Hazard Control.**

Signature John Hogan Date 9-15-08

Do Not Write Below Line

Permit No. _____ Amount _____ Name of Reviewer _____

THIS DOCUMENT HAS A COLORED BACKGROUND AND ALSO INCORPORATES MULTIPLE SECURITY FEATURES

VEOLIA
ENVIRONMENTAL SERVICES
3018 N. Hwy 146
Baytown, Texas 77520

JPMorgan Chase Bank, N.A.
Chicago, IL

59312

70-2322
719

September 9 20 08

PAY Five Hundred Eighteen Dollars And 00/100 DOLLARS $ 518.00

TO THE ORDER OF
Milwaukee Development Center
809 N. Broadway
Milwaukee, WI 53201-0324

Wendy Lu Sauge

TWO SIGNATURES REQUIRED OVER $1,000

⑈059312⑈ nonresponsive [redacted] nonresponsive

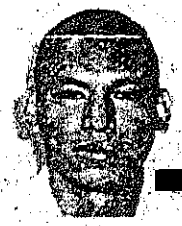
THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

Veolia Environmental Services DETACH AND RETAIN THIS STATEMENT 59312

| DATE | DESCRIPTION | AMOUNT |
|---|---|---|
| 9-9-2008 | Permit | $518.00 |

JOB NO.

| PERIOD ENDING | TOTAL EARNING | FED. INC. TAX | STATE INC. TAX | F.I.C.A. RETIREMENT | F.I.C.A. MEDICARE | INS. | 401K | | | | Net Pay |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |



ASBESTOS WORKER

Issued By

STATE OF WISCONSIN

Dept. of Health & Family Services

Santana Conchi Golpe

[redacted] nonresponsive

nonresponsive [redacted]

| | | | |
|---|---|---|---|
| | | 142 lbs | 5' 00" |
| AWW-119787 | Exp: 07/13/2008 | nonresp | Male |

Training due by: 07/13/2008

**ASBESTOS SUPERVISOR**

Issued By

**STATE OF WISCONSIN**

**Dept. of Health & Family Services**

**Jesus Cruz**

nonresponsiv

nonresponsive

| | | | |
|---|---|---|---|
| | | 230 lbs | 6' 0u |
| ACS-14541 | Exp: 02/25/2009 | nonresp | Male |

**Training due by: 02/25/2009**

ASBESTOS WORKER

Issued By

STATE OF WISCONSIN

Dept. of Health & Family Services

Juan Carlos Flores

nonresponsive [redacted]

| | | | |
|---|---|---|---|
| | | 170 lbs | 5' 05" |
| AWW-118687 | Exp: 01/19/2009 | nonres [redacted] | Male |

Training due by: 01/19/2009

ASBESTOS WORKER

Issued By

STATE OF WISCONSIN

Dept. of Health & Family Services

Danny Y Laguna Ruiz

Nonresponsive

| | | | |
|---|---|---|---|
| | | 145 lbs | 5' 03 |
| AWW-113689 | Exp: 05/12/2008 | no response | Male |

Training due by: 05/12/2008

**ASBESTOS SUPERVISOR**

Issued By

**STATE OF WISCONSIN**

**Dept. of Health & Family Services**

**Hilario Mario Hernandez- Sanchez**

non [redacted]

nonresponsive [redacted]

| | | | |
|---|---|---|---|
| | | 150 lbs | 5' 05" |
| ACS-119626 | Exp: 04/18/2009 | nonresp | Male |

**Training due by: 04/18/2009**

**ASBESTOS WORKER**

Issued By

**STATE OF WISCONSIN**

**Dept. of Health & Family Services**

**Victor J Figueroa Melendez**

nonrespon

nonresponsive

| | | | |
|---|---|---|---|
| | | 170 lbs | 5' 08" |
| AWW-110356 | Exp: 08/21/2008 | nonres | Male |

[illegible] 08/21/2008

**ASBESTOS WORKER**

Issued By

**STATE OF WISCONSIN**

**Dept. of Health & Family Services**

**Jesus M Roa**

[redacted]nonrespon[redacted]

[redacted] nonrespon[redacted]

| | | | |
|---|---|---|---|
| | | 190 lbs | 5' 06" |
| AWW-120221 | Exp: 10/19/2008 | [redacted]nonresp[redacted] | Male |

**Training due by: 10/19/2008**

**ASBESTOS WORKER**

Issued By

**STATE OF WISCONSIN**

**Dept. of Health & Family Services**

**Luis Aquino Dominguez**

[redacted]

| | | | |
|---|---|---|---|
| | | 165 lbs | 5' 04" |
| AWW-119786 | Exp: 07/13/2009 | [redacted] | Male |

**Training due by: 07/13/2009**

**ASBESTOS WORKER**

Issued By

**STATE OF WISCONSIN**

**Dept. of Health & Family Services**

**Gilbert Davila**

nonrespon

nonresponsive [redacted]

| | | | |
|---|---|---|---|
| | | 160 lbs | 5' 06" |
| AWW-119633 | Exp: 06/15/2009 | nonrespo | Male |

**Training due by: 06/15/2009**

08.349

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570

# PCM FIBER COUNT REPORT

Veolia ES Industrial
Services, Inc.
N104 W13275 Donges Bay Rd.
Germantown WI 53022

Job ID: 490741A03.349 - Former Mil.
Report # 95966
Sampled By: Jesus Cruz
Date Received: 09/24/08
Analyst: Aaron Engelman
Date Analyzed: 09/25/08

| Sample ID | Fibers/CC | F/100 Flds | Comments | | | |
|---|---|---|---|---|---|---|
| BF291884 | <0.052<br>08:04 08:37 | 3.5 | Lpm | 2.00 | Ltrs | 66.0 |
| BF291885 | | .0 | | | Ltrs | .0 |
| BF291889 | <0.005<br>08:37 15:57 | 1.5 | Lpm | 1.50 | Ltrs | 660.0 |
| BF291899 | <0.007<br>11:10 15:15 | 3.0 | Lpm | 2.00 | Ltrs | 490.0 |
| BF291900 | <0.002<br>11:00 14:30 | 2.5 | Lpm | 10.00 | Ltrs | 2100.0 |
| BF291907 | <0.057<br>10:35 11:05 | 4.0 | Lpm | 2.00 | Ltrs | 60.0 |
| BF291925 | <0.007<br>10:15 15:56 | 6.5 | Lpm | 1.50 | Ltrs | 511.5 |
| Y746208 | <0.002<br>09:19 11:24 | 5.0 | Lpm | 15.00 | Ltrs | 1875.0 |

LOD (Limit of Detection) policy of MicroAnalytical, Inc. is 8.92F/mm2 or 7fbrs/100flds designated with a "<" sign.

AIHA 101057

Micro Analytical, Inc.
11521 West North Avenue
Milwaukee, WI 53226
414-771-0855 * Fax 414-771-6570

Client: VES

Job ID: Furnace Milwaukee Die Cast 08.349

# Samples: 1 Type (PCM) PLM Lead TEM (circle one)

| Sample ID | Date Collected | Location/Remarks |
|---|---|---|
| Y746208 | 9-18-08 | Pre-abatement Air Sample from Die Cast Area |
| BF291907 | 9-19-08 ~~9-18-08~~ | (Ex) Jesus Cruz hanging glovebags |
| BF291899 | 9-19-08 | (P) Jesus Cruz hanging glovebags |
| BF291900 | 9-19-08 | (A) Area Sampled while setting up (B) ~~Field Blank - Sampler~~ |
| BF291885 | 9-19-08 | Field Blank |
| BF291884 | 9-22-08 | (Ex) Jesus Cruz glovebagging |
| BF291925 | 9-22-08 | (P) " " " |
| BF291889 | 9-22-08 | (P) " " " |
| | | |
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| | | |

Relinquished by Date/Time 9/22/08 Received by Date/Time

Relinquished by Date/Time Received by Date/Time

Relinquished by Date/Time Received By Date/Time

Notes: Call Results # _____ Fax # _____

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

Air Sample Log

**Job Name:** Former Milwaukee Die Cast **Date:** 9-18-08 **Address:** 4132 N Holton St Milwaukee WI 53212

**Job Number:** 490794403-349 **Sample taken by:** Jesus Cruz **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Tot. Min. | F/OC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 746208 | BG | Die-cast-Area | #13 | | | | 15 | 9:19 AM | 11:24 | 2:5 | |
| | BG | | | | | | 15 | | | | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 9-18-08
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

**Onyx Special Services, Inc.**
Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

Air Sample Log

**Job Name:** Former Milwaukee Dielast **Date:** 9-08 **Address:** 4132 N Holton Milwaukee WI 53022

**Job Number:** 490741A08 **Sample taken by:** Jesus Cruz **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Tot. Min. | F/OC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291907 | EX | Die cast | 6 | 3 | HF | Yes | 2 | 10:35 | 11:05 | 60 | |
| BF291899 | P | Die cast | 6 | 3 | HF | Yes | 2 | 11:10 | 3:15 | 245 | 24 |
| BF291900 | BG | Die cast | 18 | 3 | HF | Yes | 10 | 11:00 | 2:30 | 2100 | |
| BF291885 | FB | " " | — | 3 | | Yes | 0 | 315 | 315 | 0 | |
| | | | | | | | | | | | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 9-19-08
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

## Air Sample Log

**Job Name:** Former Die Cast **Date:** 9-22-08 **Address:** 4132 N Holten Milwaukee WI 53022

**Job Number:** 4907419 08 344 **Sample taken by:** Jesus Cruz **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F.OC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291884 | EX | ~~1st~~ First area Former Die Cast | ~~6~~ 6 | 1-3 | HF | Yes | ~~8.04~~ 2 | 8:04 | 8:37 | 33 | |
| BF291925 | P | 1st area Former Die Cast | ~~6~~ 5 | 1-3 | HF | Yes | 1.5 | 10:15 | 3:56 | 341 | |
| BF291889 | P | 1st area Former Die Cast | ~~6~~ 6 | 1-3 | HF | Yes | 1.5 | 8:37 | 3:57 | 420 | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 9-22-08
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570

# PCM FIBER COUNT REPORT

Jackson/MacCudden, Inc.
9870 Elmleaf Lane
Franklin WI 53132

Job ID: DC-010078

Sampled By: Tom Jackson

Analyst: Aaron Engelman

Report # 96202

Date Received: 10/07/08

Date Analyzed: 10/07/08

| Sample ID | Fibers/CC | F/100 Flds | Comments | | | |
|---|---|---|---|---|---|---|
| JM5907 | <0.002 | 5.5 | | | | |
| | 11:15 13:40 | | Lpm | 12.00 | Ltrs | 1740.0 |
| JM5908 | | .0 | | | | |
| | | | | | Ltrs | .0 |

LOD (Limit of Detection) policy of MicroAnalytical, Inc. is 0.02F/mm2 or 7fbrs/100flds designated with a "<" sign.

AIHA 101057

**AMHI Services LLC**
**633 Cleveland Avenue Hartford, WI 53027**
**262-353-8926 larry.amhi@att.net**

Customer: Veolia Industrial Services

Project ID: 4123 N. Holton St. Milwaukee, WI

---

Visual Clearance 9/27/08

Air Sample Date: 9/27/08

Analysis Date: 9/27/08

| Sample # | F/CC | Location | Pump# | Start | Stop | L/ Min | Volume |
|---|---|---|---|---|---|---|---|
| #1 | .004 | Former mfg. area | DIA1 | 9:40am | 11:12 am | 13 | 1200L |

Larry R. Hasslinger
AMHI Services LLC

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570

# PCM FIBER COUNT REPORT

Veolia ES Industrial
Services, Inc.
N104 W13275 Donges Bay Rd.
Germantown WI 53022

Job ID: A08-349 - Former Die Cast

ampled By: Jesus Cruz

nalyst: Aaron Engelman

Report # 96331

Date Received: 10/14/08

Date Analyzed: 10/15/08

| Sample ID | Fibers/CC | F/100 Flds | Comments | | | | |
|---|---|---|---|---|---|---|---|
| BF291901 | 0.017 | 26.5 | | | | | |
| | 08:41 11:56 | 12:40 15:50 | Lpm | 2.00 | Ltrs | 770.0 | |
| BF291918 | 0.002 | 18.5 | | | | | |
| | 09:50 11:55 | 12:41 15:55 | Lpm | 15.00 | Ltrs | 4785.0 | |
| Y727570 | 0.144 | 20.5 | | | | | |
| | 08:05 08:40 | | Lpm | 2.00 | Ltrs | 70.0 | |

LOD (Limit of Detection) policy of MicroAnalytical, Inc. is 8.92F/mm2 or 7fbrs/100flds designated with a "<" sign.

AIHA 101057

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570

# PCM FIBER COUNT REPORT

Veolia ES Industrial
Services, Inc.
N104 W13275 Donges Bay Rd.
Germantown WI 53022

Job ID: A08-349 - Former Die Cast

Report # 96260

Sampled By: Jesus Cruz

Date Received: 10/09/08

Analyst: Aaron Engelman

Date Analyzed: 10/10/08

| Sample ID | Fibers/CC | F/100 Flds | Comments | | | |
|---|---|---|---|---|---|---|
| BF291883 | 0.023 | 18.5 | | | | |
| | 12:40 15:58 | | Lpm | 2.00 | Ltrs | 396.0 |
| BF291892 | 0.110 | 13.5 | | | | |
| | 07:45 08:15 | | Lpm | 2.00 | Ltrs | 60.0 |
| BF291898 | 0.009 | 7.5 | | | | |
| | 08:17 11:53 | | Lpm | 2.00 | Ltrs | 432.0 |
| BF291903 | 0.002 | 9.5 | | | | |
| | 12:49 15:15 | | Lpm | 15.00 | Ltrs | 2190.0 |
| Y746194 | <0.054 | 2.0 | | | | |
| | 07:59 08:31 | | Lpm | 2.00 | Ltrs | 64.0 |
| Y746235 | 0.003 | 24.5 | | | | |
| | 07:58 11:57 | | Lpm | 15.00 | Ltrs | 3585.0 |

LOD (Limit of Detection) policy of MicroAnalytical, Inc. is 8.92F/mm2 or 7fbrs/100flds designated with a "<" sign.

AIHA 101057

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

Air Sample Log

**Job Name:** Former Die Cast **Date:** 10-03-08 **Address:** 4132 N Holton Milwaukee WI 53212

**Job Number:** A08-349 **Sample taken by:** Jesus Cruz **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F/OC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291892 | EX | Jesus Cruz | 6 | 1 | HF | Yes | 2 | 7:45 am | 8:15 | 30 | 60 |
| BF291898 | P | Jesus Cruz | 6 | 1 | HF | Yes | 2 | 8:17 | 11:53 | 216 | 432 |
| BF291903 | A | Jesus Cruz | 18 | 1 | HF | Yes | 15 | 8:57 | 11:56 | 179 | 2685 |
| | | | | | | | | | | | |
| BF291898 | P | Jesus Cruz | 6 | 1 | HF | Yes | 2 | 12:51 | 3:25 | 154 | 308 |
| BF291903 | A | Jesus Cruz | 18 | 1 | HF | Yes | 15 | 12:49 | 3:15 | 146 | 2190 |
| | | | | | | | | | | | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 10-03-08
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

## Air Sample Log

**Job Name:** Former Die Cast **Date:** 10-02-08 **Address:** 4132 N Holton Milwaukee WI 53022

**Job Number:** A08-349 **Sample taken by:** Jesus Cruz **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | ~~Ttl. Min.~~ | ~~F/OC~~ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ Y746194 | EX | Victor Figueroa | 6 | 1 | HF | Yes | 2 | 7:59am | 8:31 | 32 | 6240 |
| BF291883 | P | Victor Figueroa | 6 | 1 | HF | Yes | 2 | 8:32 | 11:55 | 203 | 406 |
| ✓ Y746235 | A | Jesus Cruz | 18 | 1 | HF | Yes | 15 | 7:58 | 11:57 | 239 | 3585 |
| | | | | | | | | | | | |
| ✓ BF291883 | P | Victor Figueroa | 6 | 1 | HF | Yes | 2 | 12:40 | 3:58 | 198 | 396 |
| Y746235 | A | Jesus Cruz | 18 | 1 | HF | Yes | 15 | 12:42 | 3:30 | 168 | 2520 |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM
Travaux Quad Ates 30

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 10-02-08
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

11521 West North Avenue
Milwaukee, WI 53226
414-771-0855 * Fax 414-771-6570

Client: VES

Job ID: Milw. Die Casting Company Area #2 08.349

# Samples: _____ Type: PCM PLM Lead TEM (circle one)

| Sample ID | Date Collected | Location/Remarks |
|---|---|---|
| BF 291892 | 10-3-08 | (Ex) Jesus Cruz glovebagg |
| BF 291898 | " | (P) " " " |
| BF 291903 | " | (A) Area Sample taken while glovebagging |
| Y746194 | 10-2-08 | (Ex) Victor Figuero : glovebagging |
| BF 291883 | " | (P) " " " |
| Y746235 | " | (A) Area while glovebagging |
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John Hagen 10/2/08 [signature] 10·09·08

Relinquished by Date/Time Received by Date/Time

Relinquished by Date/Time Received by Date/Time

Relinquished by Date/Time Received By Date/Time

Notes: Call Results # _____ Fax # _____

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570

# PCM FIBER COUNT REPORT

Veolia ES Industrial
Services, Inc.
N104 W13275 Donges Bay Rd.
Germantown WI 53022

Job ID: A08-349 - Former Milw. Die

Report # 96160

Sampled By:

Date Received: 10/03/08

Analyst: Aaron Engelman

Date Analyzed: 10/07/08

| Sample ID | Fibers/CC | F/100 Flds | Comments | | | |
|---|---|---|---|---|---|---|
| BF291911 | 0.010 | 17.5 | | | | |
| | 08:30 16:00 | | Lpm | 2.00 | Ltrs | 900.0 |
| BF291914 | 0.000 | .0 | 5, Overloaded | | | |
| | 08:00 16:00 | | Lpm | 15.00 | Ltrs | 7200.0 |
| BF291920 | 0.110 | 13.5 | | | | |
| | 08:00 08:30 | | Lpm | 2.00 | Ltrs | 60.0 |

LOD (Limit of Detection) policy of MicroAnalytical, Inc. is 8.92F/mm2 or 7fbrs/100flds designated with a "<" sign.

AIHA 101057

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

Air Sample Log

Job Name: Former Milw. Die Cast | Date: 9-25-08 | Address: 4132 N. Holton St

Job Number: A08 -349 | Sample taken by: Hilario Hernandez | Signature: [illegible]

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F/OC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291920 | EX | Gilbert Davila | #10 | 1 | H.F | YES | 2.0 | 8: AM | 8:30 AM | 30 M. | 60 |
| BF291911 | P | Gilbert Davila | #10 | 1 | H.F | YES | 2.0 | 8:30 AM | 4:00 pm | 450 | 900 |
| BF291914 | A | Outside. | #18 | 1 | H.F | YES | ~~2~~ 15 | 8 AM | 4 pm | 480 | 7200 |
| | | | | | | | | | | | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: _____ Received by: _____

Date: _____ Date: _____

Notify results FAX: (262)236-8130 Phone/pager _____

**Micro Analytical, Inc.**
11521 West North Avenue
Milwaukee, WI 53226
414-771-0855 * Fax 414-771-6570

Client: VES

Job ID: Former Milw. Die Casting Company 08.349

# Samples: _____ Type: PCM PLM Lead TEM (circle one)

| Sample ID | Date Collected | Location/Remarks |
|---|---|---|
| BF 291920 | 9-25-08 | (Ex) Gilbert Davila glovebag |
| BF 291911 | " | (P) " " " |
| BF 291914 | " | (A) Outside Demo Area |
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9/26/08

Relinquished by Date/Time — Received by Date/Time

Relinquished by Date/Time — Received by Date/Time

Relinquished by Date/Time — Received By Date/Time

Notes: Call Results # _____ Fax # _____

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570

# PCM FIBER COUNT REPORT

Veolia ES Industrial
Services, Inc.
N104 W13275 Donges Bay Rd.
Germantown WI 53022

ob ID: A08-349 - Former Die Cast

Report # 96153

Sampled By: Jesus Cruz

Date Received: 10/03/08

nalyst: Aaron Engelman

Date Analyzed: 10/07/08

| Sample ID | Fibers/CC | F/100 Flds | Comments | | | | |
|---|---|---|---|---|---|---|---|
| BF211910 | 0.002 | 17.5 | | | | | |
| | 10:25 12:00 | 12:37 15:00 | Lpm | 15.00 | Ltrs | 3570.0 | |
| BF291886 | 0.013 | 19.5 | | | | | |
| | 08:52 11:57 | 12:58 15:59 | Lpm | 2.00 | Ltrs | 732.0 | |
| BF291890 | <0.035 | 6.5 | | | | | |
| | 08:03 08:52 | | Lpm | 2.00 | Ltrs | 98.0 | |
| BF291891 | 0.090 | 12.5 | | | | | |
| | 10:25 10:59 | | Lpm | 2.00 | Ltrs | 68.0 | |
| BF291897 | 0.021 | 21.5 | | | | | |
| | 10:59 12:00 | 12:39 15:50 | Lpm | 2.00 | Ltrs | 504.0 | |
| BF291915 | 0.003 | 14.5 | | | | | |
| | 13:00 15:58 | | Lpm | 15.00 | Ltrs | 2670.0 | |

LOD (Limit of Detection) policy of MicroAnalytical, Inc. is 8.92F/mm2 or 7fbrs/100flds designated with a "<" sign.

AIHA 101057

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

**Air Sample Log**

**Job Name:** Former Die Cast | **Date:** 10-01-08 | **Address:** 4132 N Holton Milwaukee WI 5302

**Job Number:** A08-349 | **Sample taken by:** Jesus Cruz | **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F/O( |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291890 | EX | Gilbert Daucla | 5 | 1 | HF | Yes | 2.0 | 8:03 | 8:52 | 49 | 98 |
| BF291886 | P | Gilbert Daucla | 5 | 1 | HF | Yes | 2 | 8:52 | 11:57 | 185 | 37 |
| BF291915 | A | Gilbert Daucla | 18 | 1 | HF | Yes | 15 | 1:00 | 3:58 | 178 | 26 |
| | | | | | | | | | | | |
| BF291886 | P | Gilbert Daucla | 5 | 1 | HF | Yes | 2 | 12:58 | 3:59 | 181 | 362 |
| | | | | | | | | | | | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 10-01-08
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140 9-30-08

**Air Sample Log**

**Job Name:** Former Die Cast | **Date:** [illegible] | **Address:** 4132 N Holton Milwaukee WI 53022

**Job Number:** A08-349 | **Sample taken by:** Jesus Cruz | **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ BF291891 | Ex | Luis Aquino | 5 | 3-1 | HF | Yes | 2 | 10:25 | 10:59 | 34 | 68 |
| ✓ BF291897 | P | Luis Aquino | 5 | 3-1 | HF | Yes | 2 | 10:59 | 12:00 | 61 | 12[illegible] |
| ✓ BF211910 | A | Luis Aquino | 18 | 3-1 | HF | Yes | 15 | 10:25 | 12:00 | 95 | 14[illegible] |
| | | | | | | | | | | | |
| BF291897 | P | Luis Aquino | 5 | 3-1 | HF | Yes | 2 | 12:39 | 3:50 | 191 | 3[illegible] |
| BF211910 | A | Luis Aquino | 18 | 3-1 | HF | Yes | 15 | 12:37 | 3:00 | 143 | 2145 |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 9-30-08
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

11521 West North Avenue
Milwaukee, WI 53226
414-771-0855 * Fax 414-771-6570

Client: VES

Job ID: Former Milw. Die Casting Company

# Samples: Six  Type: PCM PLM Lead TEM (circle one)

| Sample ID | Date Collected | Location/Remarks |
|---|---|---|
| BF 291891 | 9-30-08 | (Ex) Personal Luis Aquino glovebagging |
| BF 291897 | " | (P) " " " " |
| BF 211910 | " | (A) Area while glovebagging |
| BF 291890 | 10-1-08 | (Ex) Gilbert Davila glovebagging |
| BF 291886 | " | (P) " " " |
| BF 291915 | " | (A) Area Sample while glovebagging |
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Relinquished by Date/Time  Received by Date/Time

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Relinquished by Date/Time  Received By Date/Time

Notes:  Call Results #_____  Fax #_____

MICRO ANALYTICAL, INC.
11521 West North Avenue
Milwaukee, WI 53226
(800)771-9820 (414)771-0855
Fax: (414)771-6570

# PCM FIBER COUNT REPORT

Veolia ES Industrial
Services, Inc.
N104 W13275 Donges Bay Rd.
Germantown WI 53022

Job ID: 490741A08. Former Die Cast

Report # 96162

Sampled By: Jesus Cruz

Date Received: 10/03/08

Analyst: Aaron Engelman

Date Analyzed: 10/07/08

| Sample ID | Fibers/CC | F/100 Flds | Comments | | | | |
|---|---|---|---|---|---|---|---|
| BF291882 | <0.064 | 6.5 | | | | | |
| | 08:29 09:05 | | Lpm | 1.50 | Ltrs | 54.0 | |
| BF291888 | 0.015 | 8.0 | | | | | |
| | 09:05 11:58 | | Lpm | 1.50 | Ltrs | 259.5 | |
| BF291904 | 0.174 | 16.5 | | | | | |
| | 08:14 08:45 | | Lpm | 1.50 | Ltrs | 46.5 | |
| BF291919 | 0.002 | 14.5 | | | | | |
| | 08:04 12:04 | | Lpm | 15.00 | Ltrs | 3600.0 | |
| BF291931 | 0.003 | 13.5 | | | | | |
| | 11:52 14:35 | | Lpm | 15.00 | Ltrs | 2445.0 | |
| Y747362 | <0.012 | 3.0 | | | | | |
| | 08:45 12:00 | | Lpm | 1.50 | Ltrs | 292.5 | |

LOD (Limit of Detection) policy of MicroAnalytical, Inc. is 8.92F/mm2 or 7fbrs/100flds designated with a "<" sign.

AIHA 101057

11521 West North Avenue
Milwaukee, WI 53226
414-771-0855 * Fax 414-771-6570

Client: VES

Job ID: former Milw. Die Casting Company

# Samples: _____ Type: PCM PLM Lead TEM (circle one)

| Sample ID | Date Collected | Location/Remarks |
|---|---|---|
| BF 291904 | 9-23-08 | (Ex) Gilbert Davila Glovebagging |
| V747362 | " | (P) " " " |
| BF 291919 | " | (A) Area Sample while glovebagging |
| ~~V747362~~ | | |
| ~~BF 2919~~ | | |
| BF 291882 | 9-26-08 | (Ex) Luis Aquino cleaning floors |
| BF 291888 | " | (P) " " " " |
| BF 291931 | " | (BG) Area in other Area Prior to start ~~Area Sample while cleaning floor~~ |
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John Hoar 9/29/08
Relinquished by Date/Time — Received by Date/Time

Relinquished by Date/Time — Received by Date/Time

Relinquished by Date/Time — Received By Date/Time

Notes: Call Results # _____ Fax # _____

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

Air Sample Log

**Job Name:** Former Milwaukee Die Cast | **Date:** 9-23-08 | **Address:** 4132 N Holton Milwaukee WI 53212

**Job Number:** 490741A08 | **Sample taken by:** Jesus Cruz | **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291904 | EX | ~~Danny~~ Gilbert Davila | 5 | 1 | HF | Yes | 1.5 | 8:14 | 8:45 | 31 | 46.5 |
| Y747362 | P | Gilbert Davila | 5 | 1 | HF | Yes | 1.5 | 8:45 | 12:00 | 195 | 292. |
| BF291919 | A | Gilbert Davila | 18 | 1 | HF | Yes | 15 | 8:04 | 12:04 | 240 | 360 |
| | | | | | | | | | | | |
| ~~Y747362~~ | ~~P~~ | ~~Gilbert Davila~~ | ~~5~~ | ~~1~~ | ~~HF~~ | ~~Yes~~ | ~~1.5~~ | ~~12:35~~ | ~~4:16~~ | 2.21 | |
| ~~BF291919~~ | ~~A~~ | ~~Gilbert Davila~~ | ~~18~~ | ~~1~~ | ~~HF~~ | ~~Yes~~ | ~~15~~ | ~~12:34~~ | ~~2:15~~ | ~~1:41~~ | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: _____ Received by: _____

Date: _____ Date: _____

Notify results FAX: (262)236-8130 Phone/pager _____

# Onyx Special Services, Inc.

Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

Air Sample Log

**Job Name:** Former Die Cast **Date:** 9-26-08 **Address:** 4132 N Holton Milwaukee WI 53212

**Job Number:** 4907-91A08-349 **Sample taken by:** Jesus Cruz **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F/ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291882 | EX | Luis Aquino | 6 | 5 | H9 | Yes | 1.5 | 8:29 | 9:05 | 36 | 54 |
| BF291888 | P | Luis Aquino | 6 | 5 | H7 | Yes | 1.5 | 9:05 | 11:58 | 173 | 49 |
| | | | | | | | | | | | |
| ~~BF291888~~ | ~~P~~ | ~~Luis Aquino~~ | ~~6~~ | ~~5~~ | ~~H7~~ | ~~Yes~~ | ~~1.5~~ | ~~12:40~~ | ~~3:50~~ | ~~190~~ | |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: _____ Received by: _____

Date: _____ Date: _____

Notify results FAX: (262)236-8130 Phone/pager _____

**Onyx Special Services, Inc.**
Germantown Office
N.104 W.13275 Donges Bay Rd
Phone: (262)236-8130 Fax: (262)236-8140

# Air Sample Log

**Job Name:** Former Die Cast | **Date:** 9-26-09 | **Address:** 4132 N Holton Milwaukee WI 53212

**Job Number:** A08-349 | **Sample taken by:** Jesus Cruz | **Signature:** Jesus Cruz

| Sample Number | Type | Location or Workers Name/SS# | Pump ID | Activity | Resp used | Neg. pres. | Flow Rate | Start Time | Stop Time | Ttl. Min. | F/OC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BF291931 | BG | Jesus Cruz | 18 | 7 | HF | Yes | 15 | 11:52 | 2:35 | 162 | 2401 |
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TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other Pre abatement

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jesus Cruz
Date: 9-26-09
Notify results FAX: (262)236-8130

Received by: _____
Date: _____
Phone/pager _____

TT 2000-100 HTTP: UNSH Mailley

| P.O. # JOB # | A08-349 |
|---|---|
| WSR # | GRL 072220 |

# WASTE SHIPMENT RECORD / ASBESTOS MANIFEST

**Generator**

1.-A. Special Waste Profile #

Friable Asbestos (Circle One) Non-Friable Asbestos

1-B. 24 Hour Response Telephone Number: 1-800-677-7240

1. Work Site Name and Mailing Address: Former Milwaukee Die Casting Company, 4132 N Holton Ave Milwaukee WI 53212

Owner's Name:

Owner's Phone No.: 216-269-5175

2. Operator's Name and Address: Veolia ES Industrial Services, Inc. • P.O. Box 367• Germantown, WI 53022-0367

Operator's Phone No.: (262) 236-8130

3. Waste Disposal Site (WDS) Name, Mailing Address, and Physical Site Location: Veolia ES ~~Emerald Park~~ Landfill, LLC, W194 S10629 124th St Muskego, WI 53150

WDS Phone No.: (920) 387-0987

4. Name, and Address of Responsible Agency: U.S. Environmental Protection Agency, Region V, 203 South Dearborn St; Chicago, IL 60604

| 5. Description of Materials | 6. Containers No. | Type | 7. Total Quantity m³ (yd³) |
|---|---|---|---|
| T. S. I. | | | |
| Friable Asbestos RQ Asbestos, 9, NA 2212, PG III | 306 | bags | 79 yd³ |
| Non-Friable Asbestos | | | |

8. Special Handling Instructions and Additional Information

24 HOUR NOTICE, MUST BE BURIED.

9. GENERATOR'S CERTIFICATION: I hereby declare that the contains of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

| Printed / Typed Name & Title | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jesus Cruz, Foreman Veolia | Jesus Cruz | 10 | 08 | 08 |

**Transporter**

10. Transporter 1 (Acknowledgment of Receipt of Materials)

| Printed / Typed Name & Title | Signature | Month | Day | Year |
|---|---|---|---|---|
| Veolia ES Industrial Services, Inc. Address and Telephone No. P.O. Box 367 Germantown, WI 53022-0367 | Jesus Cruz | 10 | 08 | 08 |

11. Transporter 2 (Acknowledgment of Receipt of Materials)

| Printed / Typed Name & Title | Signature | Month | Day | Year |
|---|---|---|---|---|
| Tim Domagalski, Address and Telephone No. | Tim Domagalski | 10 | 8 | 08 |

**Disposal Site**

12. Discrepancy Indication Space

13. Waste Disposal Site Owner or Operator

Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

| Printed / Typed Name & Title | Signature | Month | Day | Year |
|---|---|---|---|---|
| Stephanie Lamping / Gate Attendant | S Lamping | 10 | 08 | 08 |

North 52+00 East 60+00 Elevation 792'

WHITE - Waste Disposal Site CANARY - Generator / Operator PINK - Transporter GOLD - Generator / Operator

SGRL 200

VEOLIA ES Emerald Park Landfill, LLC.
W124 S10629 S. 124th Street
Muskego, WI 53150

8 October 2008 2:18 pm

Ticket: 948696 2:18 pm
Veolia Environmental Services

Reference:
Vehicle: C606040 MU
BFI-33CRQ

Gross Weight 48,240.00 lb
Stored Tare Weight 39,260.00 lb
Net Weight 8,980.00 lb 4.49 TN

Contract: EPL2008-183 000000 0000 0.00
B O L

| Quantity | Unit | Description | Rate | Tax | Total |
|---|---|---|---|---|---|
| 33.00 | YD | AA 38B Asbestos, Friable | | | |

Net Amount:

LANDFILL HOURS:
M-F:7:00 AM-4:30 PM - SAT. 7:00 AM-11:30 AM

Weighmaster: STEPHANIE L Driver

# APPENDIX E

ARCADIS

**Appendix E**

Water Laboratory Analytical Reports

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
602 Commerce Drive Watertown, WI 53094 * 800-833-7036 * Fax 920-261-8120

November 24, 2008

| | | | |
|---|---|---|---|
| Client: | ARCADIS - MILWAUKEE<br>126 N Jefferson Street Suite 400<br>Milwaukee, WI 53202 | Work Order:<br>Project Name:<br>Project Number: | WRK0445<br>Milwaukee Die Cast<br>WI001196.0001.00001 |
| Attn: | Mr. Brian Maillet | Date Received: | 11/13/08 |

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| MT-WS | WRK0445-01 | 11/12/08 07:45 |
| NS-WS | WRK0445-02 | 11/12/08 08:00 |
| SS-WS | WRK0445-03 | 11/12/08 08:15 |

Samples were received into laboratory on ice.

Wisconsin Certification Number: 128053530

The Chain of Custody, 1 page, is included and is an integral part of this report.

*Unless subcontracted, volatiles analyses (including VOC, PVOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.*

Approved By:

Brian DeJong

**TestAmerica Watertown**
Brian DeJong For Warren L. Topel
Project Manager

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | LOQ | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: WRK0445-01RE1 (MT-WS - Ground Water)** | | | | | | | **Sampled: 11/12/08 07:45** | | | |
| VOCs by SW8260B | | | | | | | | | | |
| Benzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Bromobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Bromochloromethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Bromodichloromethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Bromoform | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Bromomethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| n-Butylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| sec-Butylbenzene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| tert-Butylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Carbon Tetrachloride | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Chlorobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Chlorodibromomethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Chloroethane | <1.0 | | ug/L | 1.0 | 3.3 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| **Chloroform** | **0.41** | J | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Chloromethane | <0.30 | | ug/L | 0.30 | 1.0 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 2-Chlorotoluene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 4-Chlorotoluene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2-Dibromo-3-chloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2-Dibromoethane (EDB) | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Dibromomethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2-Dichlorobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,3-Dichlorobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,4-Dichlorobenzene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Dichlorodifluoromethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloroethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2-Dichloroethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloroethene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| **cis-1,2-Dichloroethene** | **6.9** | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| trans-1,2-Dichloroethene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2-Dichloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,3-Dichloropropane | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 2,2-Dichloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloropropene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| cis-1,3-Dichloropropene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| trans-1,3-Dichloropropene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 2,3-Dichloropropene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Isopropyl Ether | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Ethylbenzene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Hexachlorobutadiene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Isopropylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| p-Isopropyltoluene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Methylene Chloride | <1.0 | | ug/L | 1.0 | 3.3 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Methyl tert-Butyl Ether | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Naphthalene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| n-Propylbenzene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Styrene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,1,1,2-Tetrachloroethane | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,1,2,2-Tetrachloroethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| **Tetrachloroethene** | **0.79** | J | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Toluene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |

**TestAmerica Watertown**
Brian DeJong For Warren L. Topel
Project Manager

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

| Analyte | Sample Result | Data Qualifiers | Units | MDL | LOQ | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: WRK0445-01RE1 (MT-WS - Ground Water) - cont.** | | | | | | | **Sampled: 11/12/08 07:45** | | | |
| VOCs by SW8260B - cont. | | | | | | | | | | |
| 1,2,3-Trichlorobenzene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2,4-Trichlorobenzene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,1,1-Trichloroethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,1,2-Trichloroethane | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| **Trichloroethene** | **7.2** | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Trichlorofluoromethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2,3-Trichloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,2,4-Trimethylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| 1,3,5-Trimethylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| **Vinyl chloride** | **0.42** | J | ug/L | 0.20 | 0.67 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| Xylenes, Total | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 14:52 | LCK | 8110503 | SW 8260B |
| *Surr: Dibromofluoromethane (82-122%)* | *107 %* | | | | | | | | | |
| *Surr: Toluene-d8 (86-117%)* | *98 %* | | | | | | | | | |
| *Surr: 4-Bromofluorobenzene (83-118%)* | *100 %* | | | | | | | | | |
| **Sample ID: WRK0445-02RE1 (NS-WS - Ground Water)** | | | | | | | **Sampled: 11/12/08 08:00** | | | |
| VOCs by SW8260B | | | | | | | | | | |
| Benzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Bromobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Bromochloromethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Bromodichloromethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Bromoform | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Bromomethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| n-Butylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| sec-Butylbenzene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| tert-Butylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Carbon Tetrachloride | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Chlorobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Chlorodibromomethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Chloroethane | <1.0 | | ug/L | 1.0 | 3.3 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Chloroform | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Chloromethane | <0.30 | | ug/L | 0.30 | 1.0 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 2-Chlorotoluene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 4-Chlorotoluene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2-Dibromo-3-chloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2-Dibromoethane (EDB) | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Dibromomethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2-Dichlorobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,3-Dichlorobenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,4-Dichlorobenzene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Dichlorodifluoromethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloroethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2-Dichloroethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloroethene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| **cis-1,2-Dichloroethene** | **150** | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| **trans-1,2-Dichloroethene** | **2.1** | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2-Dichloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,3-Dichloropropane | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 2,2-Dichloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloropropene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| cis-1,3-Dichloropropene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| trans-1,3-Dichloropropene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

**Sample ID: WRK0445-02RE1 (NS-WS - Ground Water) - cont.** **Sampled: 11/12/08 08:00**

VOCs by SW8260B - cont.

| Analyte | Sample Result | Data Qualifiers | Units | MDL | LOQ | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,3-Dichloropropene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Isopropyl Ether | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Ethylbenzene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Hexachlorobutadiene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Isopropylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| p-Isopropyltoluene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Methylene Chloride | <1.0 | | ug/L | 1.0 | 3.3 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Methyl tert-Butyl Ether | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Naphthalene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| n-Propylbenzene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Styrene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,1,1,2-Tetrachloroethane | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,1,2,2-Tetrachloroethane | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| **Tetrachloroethene** | **13** | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Toluene | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2,3-Trichlorobenzene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2,4-Trichlorobenzene | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,1,1-Trichloroethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,1,2-Trichloroethane | <0.25 | | ug/L | 0.25 | 0.83 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| **Trichloroethene** | **15** | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Trichlorofluoromethane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2,3-Trichloropropane | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,2,4-Trimethylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| 1,3,5-Trimethylbenzene | <0.20 | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| **Vinyl chloride** | **2.0** | | ug/L | 0.20 | 0.67 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| Xylenes, Total | <0.50 | | ug/L | 0.50 | 1.7 | 1 | 11/21/08 15:19 | LCK | 8110503 | SW 8260B |
| *Surr: Dibromofluoromethane (82-122%)* | *111 %* | | | | | | | | | |
| *Surr: Toluene-d8 (86-117%)* | *98 %* | | | | | | | | | |
| *Surr: 4-Bromofluorobenzene (83-118%)* | *99 %* | | | | | | | | | |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

**Sample ID: WRK0445-03RE1 (SS-WS - Ground Water)** **Sampled: 11/12/08 08:15**

VOCs by SW8260B

| Analyte | Sample Result | Data Qualifiers | Units | MDL | LOQ | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Bromobenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Bromochloromethane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Bromodichloromethane | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Bromoform | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Bromomethane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| n-Butylbenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| sec-Butylbenzene | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| tert-Butylbenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Carbon Tetrachloride | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Chlorobenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Chlorodibromomethane | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Chloroethane | <4.0 | | ug/L | 4.0 | 13 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Chloroform | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Chloromethane | <1.2 | | ug/L | 1.2 | 4.0 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 2-Chlorotoluene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 4-Chlorotoluene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2-Dibromo-3-chloropropane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2-Dibromoethane (EDB) | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Dibromomethane | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2-Dichlorobenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,3-Dichlorobenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,4-Dichlorobenzene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Dichlorodifluoromethane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| **1,1-Dichloroethane** | **14** | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2-Dichloroethane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloroethene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| **cis-1,2-Dichloroethene** | **260** | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| **trans-1,2-Dichloroethene** | **2.3** | J | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2-Dichloropropane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,3-Dichloropropane | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 2,2-Dichloropropane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,1-Dichloropropene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| cis-1,3-Dichloropropene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| trans-1,3-Dichloropropene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 2,3-Dichloropropene | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Isopropyl Ether | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Ethylbenzene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Hexachlorobutadiene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Isopropylbenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| p-Isopropyltoluene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Methylene Chloride | <4.0 | | ug/L | 4.0 | 13 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Methyl tert-Butyl Ether | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Naphthalene | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| n-Propylbenzene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Styrene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,1,1,2-Tetrachloroethane | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,1,2,2-Tetrachloroethane | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| **Tetrachloroethene** | **2.9** | J | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Toluene | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2,3-Trichlorobenzene | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2,4-Trichlorobenzene | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

| Analyte | Sample Result | Data Qualifiers | Units | MDL | LOQ | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: WRK0445-03RE1 (SS-WS - Ground Water) - cont.** | | | | | | | **Sampled: 11/12/08 08:15** | | | |
| VOCs by SW8260B - cont. | | | | | | | | | | |
| 1,1,1-Trichloroethane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,1,2-Trichloroethane | <1.0 | | ug/L | 1.0 | 3.3 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| **Trichloroethene** | **12** | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Trichlorofluoromethane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2,3-Trichloropropane | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,2,4-Trimethylbenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| 1,3,5-Trimethylbenzene | <0.80 | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| **Vinyl chloride** | **4.6** | | ug/L | 0.80 | 2.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| Xylenes, Total | <2.0 | | ug/L | 2.0 | 6.7 | 4 | 11/21/08 17:41 | LCK | 8110503 | SW 8260B |
| *Surr: Dibromofluoromethane (82-122%)* | *104 %* | | | | | | | | | |
| *Surr: Toluene-d8 (86-117%)* | *98 %* | | | | | | | | | |
| *Surr: 4-Bromofluorobenzene (83-118%)* | *99 %* | | | | | | | | | |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
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Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

## LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs by SW8260B** | | | | | | | | | | | | | | |
| Acrylonitrile | 8110503 | | | ug/L | 5.0 | 17 | <5.0 | | | | | | | |
| Benzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Bromobenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Bromochloromethane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Bromodichloromethane | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Bromoform | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Bromomethane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| n-Butylbenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| sec-Butylbenzene | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |
| tert-Butylbenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Carbon Tetrachloride | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Chlorobenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Chlorodibromomethane | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Chloroethane | 8110503 | | | ug/L | 1.0 | 3.3 | <1.0 | | | | | | | |
| Chloroform | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Chloromethane | 8110503 | | | ug/L | 0.30 | 1.0 | <0.30 | | | | | | | |
| 2-Chlorotoluene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 4-Chlorotoluene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,2-Dibromoethane (EDB) | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Dibromomethane | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| 1,2-Dichlorobenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| 1,3-Dichlorobenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| 1,4-Dichlorobenzene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Dichlorodifluoromethane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,1-Dichloroethane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,2-Dichloroethane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,1-Dichloroethene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| cis-1,2-Dichloroethene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| trans-1,2-Dichloroethene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,2-Dichloropropane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,3-Dichloropropane | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |
| 2,2-Dichloropropane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,1-Dichloropropene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| cis-1,3-Dichloropropene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| trans-1,3-Dichloropropene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| 2,3-Dichloropropene | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |
| Isopropyl Ether | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Ethylbenzene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Hexachlorobutadiene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Isopropylbenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| p-Isopropyltoluene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Methylene Chloride | 8110503 | | | ug/L | 1.0 | 3.3 | <1.0 | | | | | | | |
| Methyl tert-Butyl Ether | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Naphthalene | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

## LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs by SW8260B** | | | | | | | | | | | | | | |
| n-Propylbenzene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Styrene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Tetrachloroethene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| Toluene | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,2,3-Trichlorobenzene | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |
| 1,2,4-Trichlorobenzene | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |
| 1,1,1-Trichloroethane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,1,2-Trichloroethane | 8110503 | | | ug/L | 0.25 | 0.83 | <0.25 | | | | | | | |
| Trichloroethene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Trichlorofluoromethane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,2,3-Trichloropropane | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| 1,2,4-Trimethylbenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| 1,3,5-Trimethylbenzene | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Vinyl chloride | 8110503 | | | ug/L | 0.20 | 0.67 | <0.20 | | | | | | | |
| Xylenes, Total | 8110503 | | | ug/L | 0.50 | 1.7 | <0.50 | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *8110503* | | | ug/L | | | | | *94* | | *82-122* | | | |
| *Surrogate: Toluene-d8* | *8110503* | | | ug/L | | | | | *99* | | *86-117* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8110503* | | | ug/L | | | | | *101* | | *83-118* | | | |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

## CCV QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs by SW8260B** | | | | | | | | | | | | | | |
| Benzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.6 | | 95 | | 80-120 | | | |
| Bromobenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 48.7 | | 97 | | 80-120 | | | |
| Bromochloromethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 44.2 | | 88 | | 80-120 | | | |
| Bromodichloromethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.2 | | 92 | | 80-120 | | | |
| Bromoform | 8K21001 | | 50.000 | ug/L | N/A | N/A | 49.1 | | 98 | | 80-120 | | | |
| Bromomethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 44.8 | | 90 | | 80-120 | | | |
| n-Butylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 48.0 | | 96 | | 80-120 | | | |
| sec-Butylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.8 | | 94 | | 80-120 | | | |
| tert-Butylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 45.4 | | 91 | | 80-120 | | | |
| Carbon Tetrachloride | 8K21001 | | 50.000 | ug/L | N/A | N/A | 41.7 | | 83 | | 80-120 | | | |
| Chlorobenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.8 | | 94 | | 80-120 | | | |
| Chlorodibromomethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.6 | | 95 | | 80-120 | | | |
| Chloroethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 43.5 | | 87 | | 80-120 | | | |
| Chloroform | 8K21001 | | 50.000 | ug/L | N/A | N/A | 44.6 | | 89 | | 80-120 | | | |
| Chloromethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 43.4 | | 87 | | 80-120 | | | |
| 2-Chlorotoluene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 50.8 | | 102 | | 80-120 | | | |
| 4-Chlorotoluene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 44.5 | | 89 | | 80-120 | | | |
| 1,2-Dibromo-3-chloropropane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 43.0 | | 86 | | 80-120 | | | |
| 1,2-Dibromoethane (EDB) | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.8 | | 94 | | 80-120 | | | |
| Dibromomethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.9 | | 94 | | 80-120 | | | |
| 1,2-Dichlorobenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.6 | | 93 | | 80-120 | | | |
| 1,3-Dichlorobenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.5 | | 93 | | 80-120 | | | |
| 1,4-Dichlorobenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 45.8 | | 92 | | 80-120 | | | |
| Dichlorodifluoromethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 41.9 | | 84 | | 80-120 | | | |
| 1,1-Dichloroethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 43.6 | | 87 | | 80-120 | | | |
| 1,2-Dichloroethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 42.2 | | 84 | | 80-120 | | | |
| 1,1-Dichloroethene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 39.8 | | 80 | | 80-120 | | | |
| cis-1,2-Dichloroethene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 44.0 | | 88 | | 80-120 | | | |
| trans-1,2-Dichloroethene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 42.4 | | 85 | | 80-120 | | | |
| 1,2-Dichloropropane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.1 | | 92 | | 80-120 | | | |
| 1,3-Dichloropropane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 49.0 | | 98 | | 80-120 | | | |
| 2,2-Dichloropropane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 43.1 | | 86 | | 80-120 | | | |
| 1,1-Dichloropropene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 43.7 | | 87 | | 80-120 | | | |
| cis-1,3-Dichloropropene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.5 | | 95 | | 80-120 | | | |
| trans-1,3-Dichloropropene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.7 | | 93 | | 80-120 | | | |
| 2,3-Dichloropropene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.2 | | 94 | | 80-120 | | | |
| Isopropyl Ether | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.0 | | 94 | | 80-120 | | | |
| Ethylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.3 | | 95 | | 80-120 | | | |
| Hexachlorobutadiene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 45.6 | | 91 | | 80-120 | | | |
| Isopropylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.0 | | 94 | | 80-120 | | | |
| p-Isopropyltoluene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 48.7 | | 97 | | 80-120 | | | |
| Methylene Chloride | 8K21001 | | 50.000 | ug/L | N/A | N/A | 50.2 | | 100 | | 80-120 | | | |
| Methyl tert-Butyl Ether | 8K21001 | | 50.000 | ug/L | N/A | N/A | 45.4 | | 91 | | 80-120 | | | |
| Naphthalene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 50.1 | | 100 | | 80-120 | | | |
| n-Propylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.4 | | 95 | | 80-120 | | | |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

## CCV QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs by SW8260B** | | | | | | | | | | | | | | |
| Styrene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 48.6 | | 97 | | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.8 | | 96 | | 80-120 | | | |
| 1,1,2,2-Tetrachloroethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.4 | | 95 | | 80-120 | | | |
| Tetrachloroethene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.9 | | 94 | | 80-120 | | | |
| Toluene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.2 | | 94 | | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 45.5 | | 91 | | 80-120 | | | |
| 1,2,4-Trichlorobenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 47.4 | | 95 | | 80-120 | | | |
| 1,1,1-Trichloroethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 42.8 | | 86 | | 80-120 | | | |
| 1,1,2-Trichloroethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 48.1 | | 96 | | 80-120 | | | |
| Trichloroethene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.6 | | 93 | | 80-120 | | | |
| Trichlorofluoromethane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 40.1 | | 80 | | 80-120 | | | |
| 1,2,3-Trichloropropane | 8K21001 | | 50.000 | ug/L | N/A | N/A | 46.9 | | 94 | | 80-120 | | | |
| 1,2,4-Trimethylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 48.7 | | 97 | | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 8K21001 | | 50.000 | ug/L | N/A | N/A | 48.1 | | 96 | | 80-120 | | | |
| Vinyl chloride | 8K21001 | | 50.000 | ug/L | N/A | N/A | 43.1 | | 86 | | 80-120 | | | |
| Xylenes, Total | 8K21001 | | 150.00 | ug/L | N/A | N/A | 142 | | 94 | | 80-120 | | | |
| *Surrogate: Dibromofluoromethane* | *8K21001* | | | ug/L | | | | | *92* | | *82-120* | | | |
| *Surrogate: Toluene-d8* | *8K21001* | | | ug/L | | | | | *96* | | *86-117* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8K21001* | | | ug/L | | | | | *99* | | *83-118* | | | |

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126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs by SW8260B** | | | | | | | | | | | | | | |
| **QC Source Sample: WRK0496-02** | | | | | | | | | | | | | | |
| Benzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 52.2 | 48.6 | 104 | 97 | 79-123 | 7 | 20 | |
| Bromobenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 52.1 | 50.1 | 104 | 100 | 83-117 | 4 | 24 | |
| Bromochloromethane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 49.7 | 47.9 | 99 | 96 | 78-113 | 4 | 14 | |
| Bromodichloromethane | 8110503 | 0.420 | 50.000 | ug/L | 0.20 | 0.67 | 50.8 | 48.7 | 101 | 97 | 84-119 | 4 | 19 | |
| Bromoform | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 51.8 | 51.1 | 104 | 102 | 79-124 | 1 | 26 | |
| Bromomethane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 57.1 | 53.1 | 114 | 106 | 70-133 | 7 | 18 | |
| n-Butylbenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 53.5 | 51.2 | 107 | 102 | 75-138 | 4 | 19 | |
| sec-Butylbenzene | 8110503 | <0.25 | 50.000 | ug/L | 0.25 | 0.83 | 52.2 | 50.3 | 104 | 101 | 79-136 | 4 | 19 | |
| tert-Butylbenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 50.5 | 48.6 | 101 | 97 | 83-128 | 4 | 17 | |
| Carbon Tetrachloride | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 50.1 | 46.7 | 100 | 93 | 88-131 | 7 | 17 | |
| Chlorobenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 50.8 | 48.7 | 102 | 97 | 86-115 | 4 | 16 | |
| Chlorodibromomethane | 8110503 | 0.310 | 50.000 | ug/L | 0.20 | 0.67 | 51.4 | 49.2 | 102 | 98 | 84-120 | 5 | 23 | |
| Chloroethane | 8110503 | <1.0 | 50.000 | ug/L | 1.0 | 3.3 | 53.0 | 51.6 | 106 | 103 | 75-131 | 3 | 17 | |
| Chloroform | 8110503 | 1.13 | 50.000 | ug/L | 0.20 | 0.67 | 51.6 | 50.4 | 101 | 99 | 83-120 | 2 | 14 | |
| Chloromethane | 8110503 | <0.30 | 50.000 | ug/L | 0.30 | 1.0 | 53.4 | 47.4 | 107 | 95 | 62-129 | 12 | 16 | |
| 2-Chlorotoluene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 52.3 | 49.8 | 105 | 100 | 80-131 | 5 | 26 | |
| 4-Chlorotoluene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 50.6 | 49.1 | 101 | 98 | 80-132 | 3 | 26 | |
| 1,2-Dibromo-3-chloropropane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 44.3 | 45.1 | 89 | 90 | 70-122 | 2 | 26 | |
| 1,2-Dibromoethane (EDB) | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 49.3 | 47.6 | 99 | 95 | 83-114 | 3 | 19 | |
| Dibromomethane | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 52.4 | 51.9 | 105 | 104 | 81-116 | 1 | 26 | |
| 1,2-Dichlorobenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 49.3 | 47.6 | 99 | 95 | 81-118 | 4 | 23 | |
| 1,3-Dichlorobenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 49.9 | 48.0 | 100 | 96 | 80-121 | 4 | 21 | |
| 1,4-Dichlorobenzene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 48.7 | 47.2 | 97 | 94 | 80-116 | 3 | 21 | |
| Dichlorodifluoromethane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 55.3 | 52.4 | 111 | 105 | 74-135 | 5 | 19 | |
| 1,1-Dichloroethane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 50.9 | 49.6 | 102 | 99 | 77-128 | 3 | 18 | |
| 1,2-Dichloroethane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 47.0 | 45.5 | 94 | 91 | 80-123 | 3 | 19 | |
| 1,1-Dichloroethene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 49.0 | 48.2 | 98 | 96 | 84-131 | 2 | 18 | |
| cis-1,2-Dichloroethene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 50.3 | 49.2 | 101 | 98 | 82-121 | 2 | 17 | |
| trans-1,2-Dichloroethene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 51.1 | 49.0 | 102 | 98 | 82-126 | 4 | 23 | |
| 1,2-Dichloropropane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 50.5 | 47.2 | 101 | 94 | 72-123 | 7 | 18 | |
| 1,3-Dichloropropane | 8110503 | <0.25 | 50.000 | ug/L | 0.25 | 0.83 | 52.1 | 49.2 | 104 | 98 | 79-119 | 6 | 24 | |
| 2,2-Dichloropropane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 50.9 | 47.8 | 102 | 96 | 82-136 | 6 | 16 | |
| 1,1-Dichloropropene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 51.8 | 47.6 | 104 | 95 | 85-127 | 9 | 16 | |
| cis-1,3-Dichloropropene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 51.2 | 48.4 | 102 | 97 | 83-120 | 6 | 20 | |
| trans-1,3-Dichloropropene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 50.3 | 47.7 | 101 | 95 | 82-121 | 5 | 26 | |
| Isopropyl Ether | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 49.5 | 46.4 | 99 | 93 | 65-133 | 6 | 20 | |
| Ethylbenzene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 54.0 | 51.8 | 108 | 104 | 84-122 | 4 | 16 | |
| Hexachlorobutadiene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 52.3 | 49.6 | 105 | 99 | 56-137 | 5 | 20 | |
| Isopropylbenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 52.6 | 50.6 | 105 | 101 | 79-136 | 4 | 22 | |
| p-Isopropyltoluene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 54.2 | 51.7 | 108 | 103 | 75-141 | 5 | 20 | |
| Methylene Chloride | 8110503 | 17.6 | 50.000 | ug/L | 1.0 | 3.3 | 74.5 | 69.8 | 114 | 104 | 77-123 | 7 | 24 | |
| Methyl tert-Butyl Ether | 8110503 | 25.4 | 50.000 | ug/L | 0.50 | 1.7 | 74.4 | 69.8 | 98 | 89 | 76-125 | 6 | 18 | |
| Naphthalene | 8110503 | <0.25 | 50.000 | ug/L | 0.25 | 0.83 | 53.1 | 51.0 | 106 | 102 | 62-130 | 4 | 24 | |
| n-Propylbenzene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 53.3 | 51.2 | 107 | 102 | 83-130 | 4 | 23 | |
| Styrene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 51.9 | 49.6 | 104 | 99 | 82-126 | 4 | 14 | |

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Brian Maillet

Work Order: WRK0445
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/13/08
Reported: 11/24/08 06:54

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs by SW8260B** | | | | | | | | | | | | | | |
| **QC Source Sample: WRK0496-02** | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 8110503 | <0.25 | 50.000 | ug/L | 0.25 | 0.83 | 51.2 | 49.5 | 102 | 99 | 86-120 | 3 | 17 | |
| 1,1,2,2-Tetrachloroethane | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 49.0 | 48.3 | 98 | 97 | 75-122 | 1 | 26 | |
| Tetrachloroethene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 54.0 | 52.4 | 108 | 105 | 86-124 | 3 | 18 | |
| Toluene | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 51.8 | 50.0 | 104 | 100 | 86-120 | 3 | 18 | |
| 1,2,3-Trichlorobenzene | 8110503 | <0.25 | 50.000 | ug/L | 0.25 | 0.83 | 49.6 | 48.0 | 99 | 96 | 64-126 | 3 | 24 | |
| 1,2,4-Trichlorobenzene | 8110503 | <0.25 | 50.000 | ug/L | 0.25 | 0.83 | 51.6 | 49.4 | 103 | 99 | 67-128 | 4 | 21 | |
| 1,1,1-Trichloroethane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 50.7 | 47.9 | 101 | 96 | 87-128 | 6 | 19 | |
| 1,1,2-Trichloroethane | 8110503 | <0.25 | 50.000 | ug/L | 0.25 | 0.83 | 51.0 | 49.0 | 102 | 98 | 82-117 | 4 | 28 | |
| Trichloroethene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 53.7 | 50.7 | 107 | 101 | 90-118 | 6 | 18 | |
| Trichlorofluoromethane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 51.0 | 49.9 | 102 | 100 | 80-143 | 2 | 19 | |
| 1,2,3-Trichloropropane | 8110503 | <0.50 | 50.000 | ug/L | 0.50 | 1.7 | 48.4 | 48.1 | 97 | 96 | 77-120 | 1 | 26 | |
| 1,2,4-Trimethylbenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 52.8 | 50.4 | 106 | 101 | 77-135 | 5 | 24 | |
| 1,3,5-Trimethylbenzene | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 52.6 | 50.3 | 105 | 101 | 79-132 | 5 | 24 | |
| Vinyl chloride | 8110503 | <0.20 | 50.000 | ug/L | 0.20 | 0.67 | 54.1 | 52.2 | 108 | 104 | 72-137 | 4 | 17 | |
| Xylenes, Total | 8110503 | <0.50 | 150.00 | ug/L | 0.50 | 1.7 | 154 | 149 | 103 | 99 | 85-121 | 4 | 13 | |
| *Surrogate: Dibromofluoromethane* | *8110503* | | | ug/L | | | | | *95* | *97* | *82-122* | | | |
| *Surrogate: Toluene-d8* | *8110503* | | | ug/L | | | | | *96* | *97* | *86-117* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8110503* | | | ug/L | | | | | *100* | *100* | *83-118* | | | |

| | | | | | |
|---|---|---|---|---|---|
| ARCADIS - MILWAUKEE<br>126 N Jefferson Street Suite 400<br>Milwaukee, WI 53202<br>Mr. Brian Maillet | | Work Order:<br>Project:<br>Project Number: | WRK0445<br>Milwaukee Die Cast<br>WI001196.0001.00001 | Received:<br>Reported: | 11/13/08<br>11/24/08 06:54 |

## CERTIFICATION SUMMARY

**TestAmerica Watertown**

| Method | Matrix | Nelac | Wisconsin |
|---|---|---|---|
| SW 8260B | Water - NonPotable | X | X |

## DATA QUALIFIERS AND DEFINITIONS

J Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

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|---|---|---|---|---|---|
| ARCADIS - MILWAUKEE<br>126 N Jefferson Street Suite 400<br>Milwaukee, WI 53202<br>Mr. Ben Verburg | Work Order:<br>Project:<br>Project Number: | WRK0683<br>Milwaukee Die Cast<br>WI001196.0001.00001 | Received:<br>Reported: | 11/20/08<br>11/26/08 11:34 | |

# ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | LOQ | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: WRK0683-01RE1 (MT-WS - Ground Water)** | | | | | | | **Sampled: 11/19/08 13:00** | | | |
| Polychlorinated Biphenyls by EPA Method 8082 | | | | | | | | | | |
| PCB-1016 | <1.5 | | ug/L | 1.5 | 4.9 | 23.5 | 11/25/08 20:39 | EML | 8110523 | SW 8082 |
| PCB-1221 | <4.0 | | ug/L | 4.0 | 13 | 23.5 | 11/25/08 20:39 | EML | 8110523 | SW 8082 |
| PCB-1232 | <1.5 | | ug/L | 1.5 | 5.1 | 23.5 | 11/25/08 20:39 | EML | 8110523 | SW 8082 |
| **PCB-1242** | **13** | J | ug/L | 5.4 | 18 | 23.5 | 11/25/08 20:39 | EML | 8110523 | SW 8082 |
| PCB-1248 | <1.5 | | ug/L | 1.5 | 4.9 | 23.5 | 11/25/08 20:39 | EML | 8110523 | SW 8082 |
| PCB-1254 | <1.8 | | ug/L | 1.8 | 5.9 | 23.5 | 11/25/08 20:39 | EML | 8110523 | SW 8082 |
| PCB-1260 | <1.6 | | ug/L | 1.6 | 5.5 | 23.5 | 11/25/08 20:39 | EML | 8110523 | SW 8082 |
| *Surr: Decachlorobiphenyl (60-130%)* | *500 %* | *ZX* | | | | | | | | |
| *Surr: Tetrachloro-meta-xylene (60-130%)* | *500 %* | *ZX* | | | | | | | | |
| **Sample ID: WRK0683-02RE1 (SS-WS - Ground Water)** | | | | | | | **Sampled: 11/19/08 15:05** | | | |
| Polychlorinated Biphenyls by EPA Method 8082 | | | | | | | | | | |
| PCB-1016 | <3.6 | | ug/L | 3.6 | 12 | 58.1 | 11/25/08 21:04 | EML | 8110523 | SW 8082 |
| PCB-1221 | <9.9 | | ug/L | 9.9 | 33 | 58.1 | 11/25/08 21:04 | EML | 8110523 | SW 8082 |
| PCB-1232 | <3.8 | | ug/L | 3.8 | 13 | 58.1 | 11/25/08 21:04 | EML | 8110523 | SW 8082 |
| **PCB-1242** | **70** | | ug/L | 13 | 45 | 58.1 | 11/25/08 21:04 | EML | 8110523 | SW 8082 |
| PCB-1248 | <3.6 | | ug/L | 3.6 | 12 | 58.1 | 11/25/08 21:04 | EML | 8110523 | SW 8082 |
| PCB-1254 | <4.4 | | ug/L | 4.4 | 15 | 58.1 | 11/25/08 21:04 | EML | 8110523 | SW 8082 |
| PCB-1260 | <4.1 | | ug/L | 4.1 | 14 | 58.1 | 11/25/08 21:04 | EML | 8110523 | SW 8082 |
| *Surr: Decachlorobiphenyl (60-130%)* | *0.00 %* | *ZX* | | | | | | | | |
| *Surr: Tetrachloro-meta-xylene (60-130%)* | *1250 %* | *ZX* | | | | | | | | |
| **Sample ID: WRK0683-03RE1 (NS-WS - Ground Water)** | | | | | | | **Sampled: 11/19/08 15:15** | | | |
| Polychlorinated Biphenyls by EPA Method 8082 | | | | | | | | | | |
| PCB-1016 | <0.67 | | ug/L | 0.67 | 2.2 | 10.8 | 11/25/08 20:14 | EML | 8110523 | SW 8082 |
| PCB-1221 | <1.8 | | ug/L | 1.8 | 6.1 | 10.8 | 11/25/08 20:14 | EML | 8110523 | SW 8082 |
| PCB-1232 | <0.70 | | ug/L | 0.70 | 2.3 | 10.8 | 11/25/08 20:14 | EML | 8110523 | SW 8082 |
| **PCB-1242** | **3.8** | J | ug/L | 2.5 | 8.2 | 10.8 | 11/25/08 20:14 | EML | 8110523 | SW 8082 |
| PCB-1248 | <0.67 | | ug/L | 0.67 | 2.2 | 10.8 | 11/25/08 20:14 | EML | 8110523 | SW 8082 |
| PCB-1254 | <0.81 | | ug/L | 0.81 | 2.7 | 10.8 | 11/25/08 20:14 | EML | 8110523 | SW 8082 |
| PCB-1260 | <0.75 | | ug/L | 0.75 | 2.5 | 10.8 | 11/25/08 20:14 | EML | 8110523 | SW 8082 |
| *Surr: Decachlorobiphenyl (60-130%)* | *500 %* | *ZX* | | | | | | | | |
| *Surr: Tetrachloro-meta-xylene (60-130%)* | *500 %* | *ZX* | | | | | | | | |

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| | | | | | |
|---|---|---|---|---|---|
| ARCADIS - MILWAUKEE<br>126 N Jefferson Street Suite 400<br>Milwaukee, WI 53202<br>Mr. Ben Verburg | Work Order:<br>Project:<br>Project Number: | WRK0683<br>Milwaukee Die Cast<br>WI001196.0001.00001 | Received:<br>Reported: | 11/20/08<br>11/26/08 11:34 |

## SAMPLE EXTRACTION DATA

| Parameter | Batch | Lab Number | Wt/Vol Extracted | Extracted Vol | Date | Analyst | Extraction Method |
|---|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls by EPA Method 8082 | | | | | | | |
| SW 8082 | 8110523 | WRK0683-01 | 850 | 5 | 11/21/08 13:00 | TLH | Default Prep GC-Sen |
| SW 8082 | 8110523 | WRK0683-02 | 860 | 5 | 11/21/08 13:00 | TLH | Default Prep GC-Sen |
| SW 8082 | 8110523 | WRK0683-03 | 930 | 5 | 11/21/08 13:00 | TLH | Default Prep GC-Sen |

**TestAmerica Watertown**
Brian DeJong For Warren L. Topel
Project Manager

ARCADIS - MILWAUKEE
126 N Jefferson Street Suite 400
Milwaukee, WI 53202
Mr. Ben Verburg

Work Order: WRK0683
Project: Milwaukee Die Cast
Project Number: WI001196.0001.00001

Received: 11/20/08
Reported: 11/26/08 11:34

## LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by EPA Method 8082** | | | | | | | | | | | | | | |
| PCB-1016 | 8110523 | | | ug/L | 0.062 | 0.21 | <0.062 | | | | | | | |
| PCB-1221 | 8110523 | | | ug/L | 0.17 | 0.56 | <0.17 | | | | | | | |
| PCB-1232 | 8110523 | | | ug/L | 0.065 | 0.22 | <0.065 | | | | | | | |
| PCB-1242 | 8110523 | | | ug/L | 0.23 | 0.78 | <0.23 | | | | | | | |
| PCB-1248 | 8110523 | | | ug/L | 0.062 | 0.21 | <0.062 | | | | | | | |
| PCB-1254 | 8110523 | | | ug/L | 0.075 | 0.25 | <0.075 | | | | | | | |
| PCB-1260 | 8110523 | | | ug/L | 0.070 | 0.23 | <0.070 | | | | | | | |
| *Surrogate: Decachlorobiphenyl* | *8110523* | | | ug/L | | | | | *100* | | *60-130* | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *8110523* | | | ug/L | | | | | *100* | | *60-130* | | | |

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## CCV QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by EPA Method 8082** | | | | | | | | | | | | | | |
| PCB-1016 | 8K25010 | | 0.50000 | mg/kg wet | N/A | N/A | 0.450 | | 90 | | 80-120 | | | |
| PCB-1260 | 8K25010 | | 0.50000 | mg/kg wet | N/A | N/A | 0.460 | | 92 | | 80-120 | | | |
| *Surrogate: Decachlorobiphenyl* | *8K25010* | | | mg/kg wet | | | | | *100* | | *0-200* | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *8K25010* | | | mg/kg wet | | | | | *100* | | *0-200* | | | |
| PCB-1016 | 8K25010 | | 0.50000 | mg/kg wet | N/A | N/A | 0.480 | | 96 | | 80-120 | | | |
| PCB-1260 | 8K25010 | | 0.50000 | mg/kg wet | N/A | N/A | 0.420 | | 84 | | 80-120 | | | |
| *Surrogate: Decachlorobiphenyl* | *8K25010* | | | mg/kg wet | | | | | *100* | | *0-200* | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *8K25010* | | | mg/kg wet | | | | | *100* | | *0-200* | | | |

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## LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by EPA Method 8082** | | | | | | | | | | | | | | |
| PCB-1016 | 8110523 | | 2.5000 | ug/L | 0.062 | 0.21 | 2.80 | | 112 | | 75-125 | | | |
| PCB-1221 | 8110523 | | | ug/L | 0.17 | 0.56 | <0.17 | | | | 75-125 | | | |
| PCB-1232 | 8110523 | | | ug/L | 0.065 | 0.22 | <0.065 | | | | 75-125 | | | |
| PCB-1242 | 8110523 | | | ug/L | 0.23 | 0.78 | <0.23 | | | | 75-125 | | | |
| PCB-1248 | 8110523 | | | ug/L | 0.062 | 0.21 | <0.062 | | | | 75-125 | | | |
| PCB-1254 | 8110523 | | | ug/L | 0.075 | 0.25 | <0.075 | | | | 75-125 | | | |
| PCB-1260 | 8110523 | | 2.5000 | ug/L | 0.070 | 0.23 | 3.00 | | 120 | | 75-125 | | | |
| *Surrogate: Decachlorobiphenyl* | *8110523* | | | ug/L | | | | | *75* | | *60-150* | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *8110523* | | | ug/L | | | | | *100* | | *60-150* | | | |

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## MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls by EPA Method 8082** | | | | | | | | | | | | | | |
| **QC Source Sample: WRK0500-01** | | | | | | | | | | | | | | |
| PCB-1016 | 8110523 | <0.062 | 10.000 | ug/L | 0.25 | 0.84 | 11.4 | 10.8 | 114 | 108 | 0-200 | 5 | 200 | |
| PCB-1221 | 8110523 | <0.17 | | ug/L | 0.68 | 2.2 | <0.68 | <0.68 | | | 0-200 | | 200 | |
| PCB-1232 | 8110523 | <0.065 | | ug/L | 0.26 | 0.88 | <0.26 | <0.26 | | | 0-200 | | 200 | |
| PCB-1242 | 8110523 | <0.23 | | ug/L | 0.92 | 3.1 | <0.92 | <0.92 | | | 0-200 | | 200 | |
| PCB-1248 | 8110523 | <0.062 | | ug/L | 0.25 | 0.84 | <0.25 | <0.25 | | | 0-200 | | 200 | |
| PCB-1254 | 8110523 | <0.075 | | ug/L | 0.30 | 1.0 | <0.30 | <0.30 | | | 0-200 | | 200 | |
| PCB-1260 | 8110523 | <0.070 | 10.000 | ug/L | 0.28 | 0.92 | 12.4 | 12.2 | 124 | 122 | 0-200 | 2 | 200 | |
| *Surrogate: Decachlorobiphenyl* | *8110523* | | | ug/L | | | | | *75* | *75* | *60-150* | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *8110523* | | | ug/L | | | | | *100* | *100* | *60-150* | | | |

| | | | | | |
|---|---|---|---|---|---|
| ARCADIS - MILWAUKEE<br>126 N Jefferson Street Suite 400<br>Milwaukee, WI 53202<br>Mr. Ben Verburg | Work Order:<br>Project:<br>Project Number: | WRK0683<br>Milwaukee Die Cast<br>WI001196.0001.00001 | Received:<br>Reported: | 11/20/08<br>11/26/08 11:34 |

## CERTIFICATION SUMMARY

**TestAmerica Watertown**

| Method | Matrix | Nelac | Wisconsin |
|---|---|---|---|
| SW 8082 | Water - NonPotable | | X |

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **C8** | Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated. |
| **J** | Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ. |
| **ZX** | Due to sample matrix effects, the surrogate recovery was outside the acceptance limits. |

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

**TestAmerica Watertown**
Brian DeJong For Warren L. Topel
Project Manager

**ARCADIS**

Laboratory Task Order No./P.O. No. _____

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name WI001196/ MilwaukeeDiCast

Project Location Milwaukee, WI

Laboratory Test America

Project Manager Ben Verburg

Sampler(s)/Affiliation Brian Maillet

ANALYSIS / METHOD / SIZE

| | Sample ID/Location | Matrix | Date/Time Sampled | Lab ID | PCBs 1 Liter Amber | | | | | | Remarks | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -01 | MT-WS | L | 11/19/08-1300 | | 1 | | | | | | | 1 |
| -02 | SS-WS | ↓ | -1505 | | ↓ | | | | | | | ↓ |
| -03 | NS-WS | ↓ | -1515 | | ↓ | | | | | | | ↓ |

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 3

| | | | | |
|---|---|---|---|---|
| Relinquished by: [signature] | Organization: ARCADIS | Date 11/20/08 | Time 1000 | Seal Intact? Yes (No) N/A |
| Received by: [signature] | Organization: TA. | Date 11/20/08 | Time 1040 | |
| Relinquished by: [signature] | Organization: T.A. | Date 11/20/08 | Time 1331 | Seal Intact? Yes No N/A |
| Received by: [signature] | Organization: TA | Date 11/20/08 | Time 1400 | |

Special Instructions/Remarks:

R 11/20/08 3.°C

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☒ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01