

FINAL

LAKE LINDEN CALUMET STAMP MILL SITE

POST-CONSTRUCTION REPORT ASBESTOS DEBRIS PICKUP, SOIL REMOVAL, AND RESTORATION

Prepared for: Honeywell Specialty Materials, LLC

Prepared by: Amec Foster Wheeler Environment & Infrastructure, Inc. Novi, Michigan

August 2017

Project 3293161707



August 9, 2017

Mr. Brian Kelly On-scene Coordinator Region V Emergency Response Branch United States Environmental Protection Agency 9311 Groh Road Grosse Ile, Michigan 48138

Subject: Administrative Settlement Agreement and Order on Consent – V-W-17-C-001 Final Post-Construction Report Calumet Stamp Mill Site

Dear Mr. Kelly:

On behalf of Honeywell International Inc., Amec Foster Wheeler Environment and Infrastructure, Inc., is pleased to submit three electronic copies of the final Post-Construction Report for the Calumet Stamp Mill Site for your records. The work was completed under the Administration Settlement and Order on Consent signed October 18, 2016 docket No. V-W-17-C-001.

If you have any questions please do not hesitate to call Michael McGowan at 248-313-3665.

Sincerely,

Amec Foster Wheeler Environment and Infrastructure, Inc.

Michael J. McGowan Project Manager

Garret E. Bondy Quality Assurance Officer

MJM/sko

Enclosures: Final Post-Construction Report

cc: Chuck Geadelmann (Honeywell)

FINAL

POST-CONSTRUCTION REPORT ASBESTOS DEBRIS PICKUP, SOIL REMOVAL, AND RESTORATION

LAKE LINDEN – CALUMET STAMP MILL SITE TORCH LAKE TOWNSHIP, HOUGHTON COUNTY MICHIGAN HONEYWELL SITE ID 37156

Prepared for: HONEYWELL SPECIALTY MATERIALS, LLC

Prepared by: AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC. 46850 Magellan Drive, Suite 190 Novi, Michigan 48377 I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

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Signature

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LIST OF ACRONYMS

ACM:	Asbestos Containing Material
ACWM:	Asbestos Containing Waste Material
Amec Foster Wheele	er: Amec Foster Wheeler Environment & Infrastructure, Inc.
ASAOC:	Administrative Settlement and Order on Consent
bgs:	Below Ground Surface
C&H:	Calumet and Hecla
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cyd:	Cubic Yard
f/cc:	Fibers per Cubic Centimeter
HASP:	Health and Safety Plan
HCHMS:	Houghton County Historical Museum Society
Honeywell:	Honeywell Specialty Materials, LLC.
MDEQ:	Michigan Department of Environmental Quality
NESHAP:	National Emission Standards for Hazardous Air Pollutants
NRDCC:	Non-Residential Direct Contact Criteria
PEL:	Permissible Exposure Limit
PCB:	Polychlorinated Biphenyl
PCM:	Phase Contrast Microscopy
Poly:	6-mil polyethylene sheeting
PPE:	Personal Protective Equipment
ppm:	Parts per Million
%	Percent
Site:	Former Calumet Stamp Mill Site
START:	Superfund Technical Assessment and Response Team
SVOC:	Semi-Volatile Organic Compound
QuanTEM:	QuanTEM Laboratories, Inc.
Tetra Tech:	Tetra Tech, Inc.
USEPA:	United States Environmental Protection Agency
VOC:	Volatile Organic Compound

1.0 INTRODUCTION

This Post-Construction Report was prepared by Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) on behalf of Honeywell Specialty Materials, LLC (Honeywell) to document construction activities associated with the asbestos remedial action completed at the historic Calumet Stamp Mill Site (Site) located at 53102 Highway M-26 in Torch Lake Township, Houghton County, Michigan (Figure 1.1). The work was completed under an Administrative Settlement Agreement and Order on Consent (ASAOC) between Honeywell, the Houghton County Historical Museum Society (HCHMS) and the United States Environmental Protection Agency (USEPA).

The Site occupies approximately 11.5 acres and is bounded to the north by the Village of Lake Linden public park, to the east by the Village of Lake Linden public marina on Torch Lake, to the south by the former Hecla Stamp Mill and C&H Power Plant Site, and to the west by Highway M-26 with a grocery store and residential homes beyond. While the majority of the former buildings at the Site have been demolished, several buildings and foundations remain and are maintained for historical purposes by the HCHMS. Structures currently at the Site include the former Calumet Stamp Mill foundation, a portion of the former Hecla Stamp Mill foundation, an office building, as well various other buildings and a railroad track constructed and operated by the HCHMS.

USEPA concluded that the Site met the criteria for a time-critical removal action, as presented in the October 2016 Enforcement Action Memorandum prepared by the USEPA.

The tasks completed address the activities required in Section VIII "Work to Be Performed" of the ASAOC between Honeywell, the HCHMS and the USEPA, effective October 18, 2016.

2.0 SITE CONDITIONS AND BACKGROUND

The Site is the location of a former industrial complex that crushed or "stamped" and processed ore rock from nearby copper mines. Stamping operations began in the early 1800's and continued until an employee strike terminated plant operations in 1968. The Site is currently owned by HCHMS.

2.1 INITIAL SITE CONDITIONS

Historically, the Site was part of a large industrial complex that operated as a stamping mill for the former Calumet & Hecla Mining Company (later Calumet & Hecla, Inc., or C&H) from the late 1800s until 1968. HCHMS acquired the Site in 1975 from Universal Oil Products. HCHMS has owned and operated the Site since that time. Based on historical Sanborn maps and aerial photographs, the majority of the former structures at the Site were demolished between 1935 and 1983. Former structures included the Calumet Stamp Mill (demolished between 1954 and 1963), a portion of the Hecla Stamp Mill (demolished between 1935 and 1954), the Calumet Wheel House (demolished between 1935 and 1951), Regrinding Plant Number 1 (demolished between 1935 and 1951), a Pump House (demolished between 1954 and 1963), a Machine Shop (demolished between 1963 and 1983), and a portion of the Leaching Plant (demolished between 1963 and 1983). The locations of these structures in relations to the Site are depicted on Figure 2.1

2.2 LOCATIONS OF HAZARDOUS SUBSTANCES

Previous investigations completed by the USEPA and the Michigan Department of Environmental Quality (MDEQ) identified elevated concentrations of asbestos containing materials (ACMs) in Site surface soils, as well as miscellaneous presumed ACM debris scattered across the Site. Areas of ACMs are depicted on Figure 2.2. Response actions and locations were based upon the MDEQ and USEPA sampling and analyses and conclusions.

2.3 CAUSE OF CONTAMINATION

ACMs found on the Site and in Site soils were the result of the presence of ACMs in onsite buildings. These ACMs were left on-Site at the time of demolition of the Stamp Mills.

2.4 **RESPONSE ACTIVITIES**

Remediation was accomplished by the following actions:

- Securing the Site by installing fencing and warning signs,
- Removal and disposal of visible presumed ACM debris,
- Removal and disposal of Site soils suspected of containing ACM from trenches in the former Hecla Stamp Mill foundation, the former Calumet Stamp Mill foundation and from an area east and adjacent to the former Calumet Stamp Mill foundation,
- Covering with clean soil, remaining soil in the excavated foundation trenches and in the area east of the former Calumet Stamp Mill,
- Removal and disposal of pitch mastic from the rims of the circular stamp mill bases on the former Calumet Stamp Mill foundations,

- Covering the openings in the circular stamp mill bases with metal plates, and
- Cleaning of concrete foundation surfaces.

The project team, including roles, consisted of the organizations listed in Table 2.1.

3.0 NARRATIVE OF RESPONSE ACTIONS

This response was conducted under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Sections 104, 106(a), 107 and 122. Remedial activities began on October 25, 2016, after the ASAOC was signed. The Site-specific Health and Safety Plan (HASP) and Work Plan were completed and sent to the USEPA for comment prior to the signing of the ASAOC so that work could commence as soon as practicable once the ASAOC was finalized. Removal activities are described in detail in Section 3.1. A chronological summary of major events related to the ACM debris pickup, soil remediation, foundation cleaning and site restoration is presented on Table 3.1.

3.1 THREAT ABATEMENT ACTIONS TAKEN

This section presents a summary of the ACM removal activities and methodologies used to address the Site hazards. Figure 2.2 shows areas where Site remediation was accomplished. A photographic log of the activities described in this section is included as Appendix A. During remediation activities, Amec Foster Wheeler provided weekly progress reports to the USEPA. Copies of these reports are included in Appendix B.

3.1.1 Preliminary Activities

Under approval from the USEPA, Honeywell completed several preliminary activities prior to signing the ASAOC. Preliminary activities began in September 2016 and included;

- Completing the Site Specific HASP and having it reviewed by the USEPA.
- Completing the Work Plan and having it reviewed by the USEPA.
- Completing the Quality Assurance Project Plan and having it reviewed by the USEPA

3.1.2 Exclusion and Contaminant Reduction Zone Construction

Beginning October 26, 2016, an area of the Site was fenced using high visibility construction fencing and signed with "Danger Asbestos Hazard" signs to establish an exclusion zone. The area enclosed the entire Calumet Stamp Mill foundation as well as an area approximately 50 feet east, 30-feet north, and 75-feet west of the foundation to allow access for workers and to keep onlookers at a distance. The southern edge of the Calumet Stamp Mill foundation abutted up to the railroad ballast placed by the HCHMS and the rails were approximately 8 feet above the foundation floor.

A decontamination trailer equipped with dirty area, showers, and clean area was placed at the western edge of the exclusion zone on October 26, 2016. The trailer was connected via hoses to a water source and the filtered gray water side was connected to the sanitary sewer.

3.1.3 Support Zone

The support zone did not require construction. The HCHMS office and parking lot was used as the support zone. The former gift shop, in the same building as the HCHMS office was used as the rallying point and office/break space for the workers and administrative duties.

3.1.4 Assumed ACM Debris Pickup

Assumed ACM debris was picked up from the Site on October 28 and November 1, 2016. The Site was walked by two groups of two persons and any suspect ACM was picked up and placed in 6-mil poly bags. Once a bag was filled to approximately ¼ full it was sealed and placed in a second bag and sealed again. These bags were placed into a roll-off box, awaiting disposal.

The area was observed by Amec Foster Wheeler with the USEPA START contractor to verify the completion of pickup of suspect ACM on November 1, 2016. On November 4, 2016, the USEPA OSC concurred that the Phase I pick up was complete. The roll off was transported to K&W Landfill for disposal on December 9, 2016.

3.1.5 Stamp Mill Foundation Trench Excavation

Beginning November 2, 2016, the soil was removed from the foundation trenches and openings within the Calumet Stamp Mill and northern portion of the Hecla Stamp Mill foundations. Soil removal from the trenches was completed on November 30, 2016.

Initially, wood covering portions of the trenches was to be left in place and soil removal from the trenches was to work around the wood, leaving soil beneath the wood. After conferring with a representative of the HCHMS, a request was made by the HCHMS to remove the wood partially covering the trenches since it did not have any historical significance so that soil beneath the wood could be removed. Permission was granted by USEPA in consultation with the Keweenaw Historic Park and HCHMS.

Per the approved Work Plan, a maximum of two feet of soil was to be removed from the trenches. A larger trench near the middle of the Calumet Stamp Mill foundation was considerably deeper than 2 feet. Therefore, this trench was excavated to a minimum of 2 feet below the foundation floor and a demarcation layer was placed along the trench on top of the remaining soil. The demarcation layer consisted of high visibility plastic construction fence and was placed the full length and width of the trench. Some of the openings in the foundations were also excavated to 2 feet below floor level and a demarcation layer was placed on top of the soil the full width and length of the opening prior to backfill.

All soil removed from the Calumet and Hecla Stamp Mill foundation trenches were assumed to be asbestos containing waste material (ACWM). The soil was staged on plastic sheeting near the southwestern corner of the Calumet Stamp Mill foundation within the exclusion zone and covered with plastic sheeting each evening and wetted during the day.

3.1.6 Soil Excavation

The soil excavation activities occurred from November 17 to November 22, 2016. In accordance with the approved Work Plan, an area east adjacent to the Calumet Stamp Mill foundation was excavated to a depth of 6-inches below ground surface (bgs). The area was approximately 20 feet wide by 300 feet long. Wood structures from a former railroad trestle were staged against the east side and near the center of the foundation. These structures were worked around, and the soil beneath them was not excavated. Excavation was completed using a loader with a 10 foot wide loader bucket. Soil was excavated two buckets wide the length of the foundation with

the exception of the wooden structures and the soil ramp located at the southeastern corner of the foundation.

All soil excavated from east adjacent to the Calumet Stamp Mill foundation were assumed to be ACWM. The excavated soil was placed on the soil stockpile also used when excavating trenches in the foundation, pending disposal.

3.1.7 Pitch Mastic Removal

Pitch mastic removal from the rims of the circular stamp mill bases began on December 2, 2016. The removal was halted on December 9, 2016 due to excessive snow fall making removal difficult. The USEPA START contractor had observed four of the five rims of the circular stamp mill bases completed by December 9, 2016, and concurred that they were sufficiently abated as per the ASAOC. The fifth foundation rim was covered with snow and not visible for inspection. Pitch mastic removal was resumed on April 24, 2017 and was completed on April 28, 2017. The USEPA START contractor concurred that the pitch mastic removal was complete as per the ASAOC. Throughout this work the removed mastic was placed in 6-mil poly bags. Once a bag was filled to approximately ¼ full it was sealed and placed in a second bag and sealed again. These bags were placed into a roll-off box, and transported to K&W Landfill for disposal on May 1, 2017.

3.1.8 Foundation Cleaning

Foundation cleaning commenced on November 15, 2016 and continued as the last soil was excavated and removed from the trenches. Foundation cleaning was completed on December 1, 2016. Onsite foundations were cleaned using low pressure followed by high pressure water. Dirt, sediment, and rinse water were directed toward contaminated soil in the trenches or along the eastern edge of the foundation for excavation and disposal during work in these areas.

Workers donned Level C PPE during foundation cleaning activities. Dust suppression methods and personal and perimeter air monitoring were conducted during these activities as described in Section 3.1.11.

Equipment used for foundation cleaning was decontaminated using a pressure washer. Rinse water was collected and transferred to the ACWM stockpile. Spent PPE was disposed with the ACWM at K&W Landfill.

Additionally, the circular stamp mill bases have openings at their bases. Recessed steel plates were attached to the concrete to prevent access into these bases.

3.1.9 Backfill

A local source of material was used to backfill the trenches in the Calumet and Hecla Stamp Mill foundations, the excavated area east adjacent to the Calumet Stamp Mill foundation. The soil was sampled and analyzed prior to being brought onto the Site. The sample was analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, herbicides, and the 10 Michigan metals. The soil was accepted as usable for the project.

The trenches at the north end of the former Hecla Stamp Mill foundation were backfilled on November 28, 2016. Backfill of the trenches on the former Calumet Stamp Mill foundation began on November 29, 2016 and halted on December 1, 2016 due to wet weather and wet soil. Backfilling activities, including the foundation trenches and the east adjoining excavation were resumed and completed on May 15, 2017. A total of 875 cubic yards or 1,575 tons of soil were imported and placed.

3.1.10 Transportation and Disposal

Loading, transport and disposal began on November 15, 2016 and the final truck load left the Site and was disposed on December 1, 2016. Prior to loading, trucks entered the Support Zone and were lined with 6 mil polyethylene sheeting (poly). To prevent airborne emissions during transit, the poly was buttoned up by folding over the loaded material and secured with adhesive tape and wire. The tops of the trucks were then tarped and secured. Each truck load was properly labeled and manifested.

Table 3.3 summarizes the quantities disposed. The disposal facility was approved to receive waste regulated by the CERCLA Off-Site Rule. Copies of waste profiles and manifests with associated weigh tickets are included in Appendices C, and D, respectively. A total of 739.85 tons of friable ACWM and 3.65 tons of non-friable ACM were disposed at K&W Landfill.

3.1.11 Air Monitoring

Air monitoring, including personal, perimeter and total dust monitoring, was performed during any activities that had the potential to disturb contaminated soil or friable ACM. Total dust monitoring was performed to ensure nuisance dust was not generated. Personal asbestos air monitoring was performed during these activities to document and mitigate asbestos exposure possibilities for the workers. Perimeter asbestos air monitoring was performed during these activities to document and mitigate potential off-site migration of asbestos fibers.

Personal and perimeter air samples were collected and analyzed by phase contrast microscopy (PCM) to detect structures (fibers) collected on the sampling filters. Results were compared to the Site action level of 0.05 f/cc; one half the Permissible Exposure Limit (PEL) of 0.1 f/cc. All perimeter air samples were below the Site action level. Perimeter air monitoring results are presented on Table 3.2.

Personal air monitoring was conducted daily. Personal samples were submitted at the end of each day to an onsite technician from Analytical Testing & Consulting Services, Inc. Samples read on-site and results were generally available the next morning. During non-friable pitch mastic removal Terra Contracting personnel supplied themselves with sampling equipment and sent the samples to Analytical Testing & Consulting Services, Inc. for analysis. The final week of pitch mastic removal Terra Contracting did not complete personal air monitoring due to previous values being consistently below the action limit. Personal air monitoring results are presented on Appendix F.

Water hoses and pressure washers were used to keep materials wetted to minimize/prevent dust. In the event that dust readings began to increase, or if visible dust was observed, work was stopped until water was applied to the material and or travel routes. Dust monitoring records are included in Appendix G.

3.1.12 Public Information and Community Relations Activities

Air monitoring results were posted on-site in a conspicuous location in the HCHMS office entry way such that interested persons could view them.

3.2 COST INCURRED

The total cost incurred in complying with the ASAOC was approximately \$564,222. Copies of contracts and invoices related to the removal action are included in Appendix H and Appendix I, respectively. The final invoice for the project has not been generated at the time this report was submitted and is not included in Appendix I.

4.0 DIFFICULTIES ENCOUNTERED

This section describes items the affected response actions.

Weather Delay

Removal activities began in late October 2016 and were postponed on December 9, 2016 due to snow and cold weather. A crew was mobilized in April 2017 to finish the mastic removal, and mobilized again in May 2017 to finish trench and excavated area backfilling, and site restoration.

Change in Scope of Work

Initially, wood covering portions of the trenches was to be left in place and soil beneath the wood left in place. After conferring with a representative of the HCHMS, a request was made and permission given to remove the wood over the trenches since it did not have any historical significance and additional soil was removed. Permission was granted by USEPA in consultation with the Keweenaw Historic Park and HCHMS.

5.0 REFERENCES

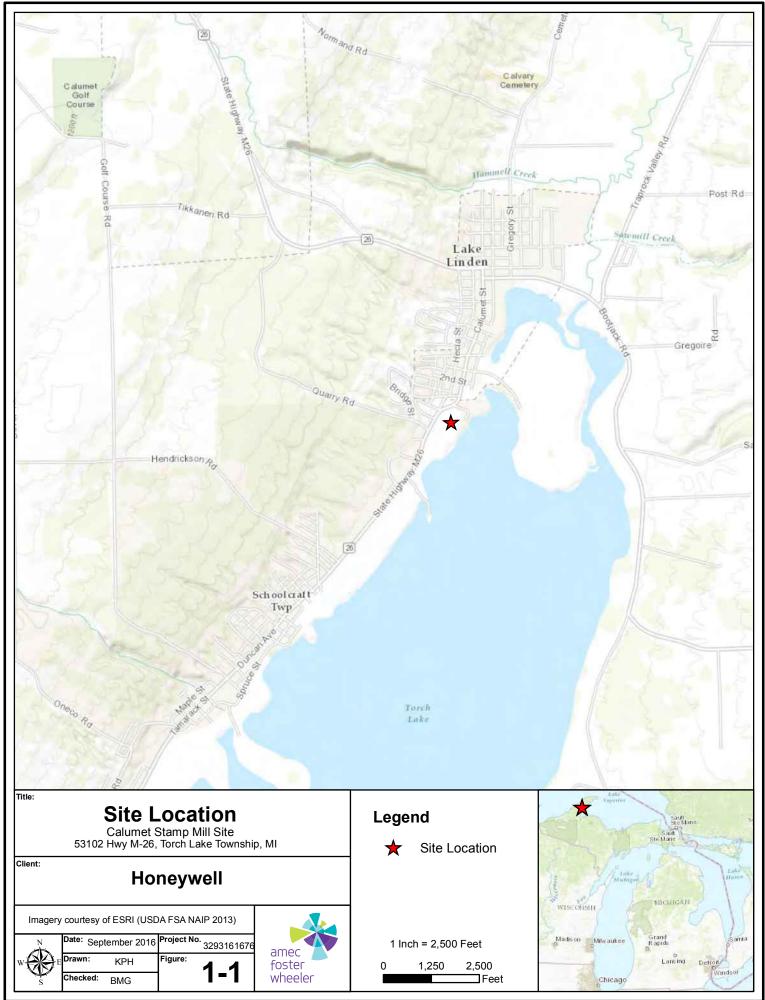
Administrative Settlement Agreement and Order on Consent for Removal Action, United States Environmental Protection Agency, October 18, 2016

Enforcement Action Memo, United States Environmental Protection Agency, October 18, 2016

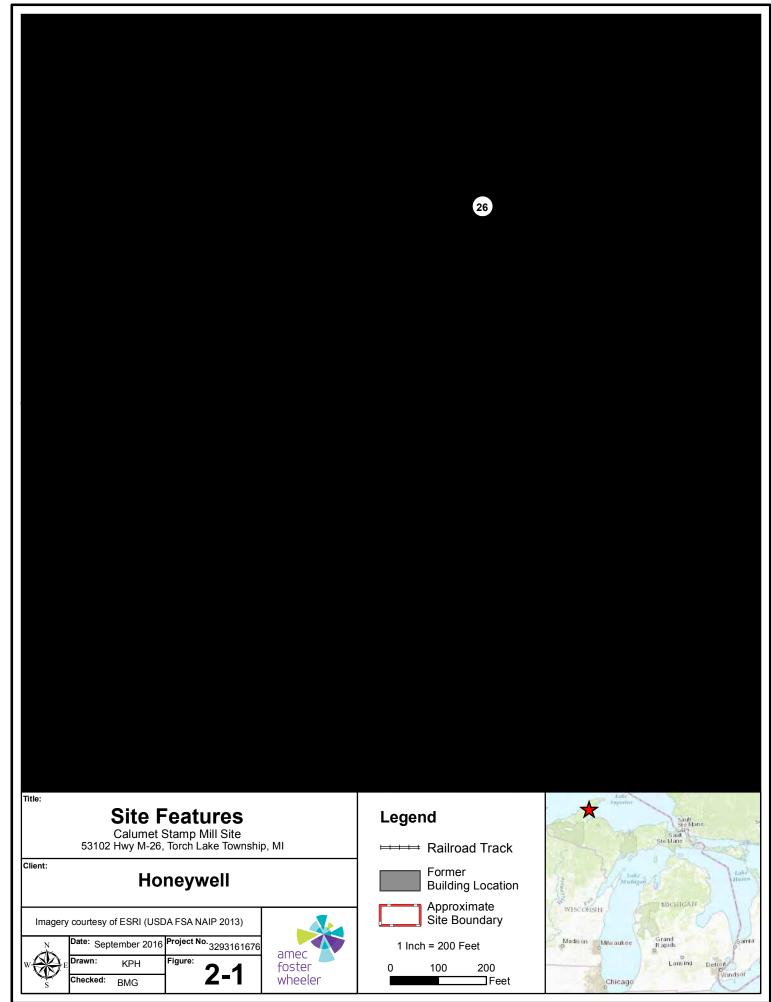
USEPA Superfund Record of Decision: Torch Lake, OUs 1&3, Houghton County, MI, United States Environmental Protection Agency, September 30, 1992

Final Calumet Stamp Mill Site Work Plan, Amec Foster Wheeler Environment and Infrastructure, Inc., October 2016

FIGURES



Document Path: P:\GIS Database Management\GIS\GIS_Projects\Honeywell\Lake Linden\MXD\Site Location.mxd



Document Path: P:\GIS Database Management\GIS\GIS_Projects\Honeywell\Lake Linden\MXD\Site Features.mxd

	26
Title: Response Action Locations	
Calumet Stamp Mill Site 53102 Hwy M-26, Torch Lake Township, MI	
Client: Honeywell	Soil Removal Area
Imagery courtesy of ESRI (USDA FSA NAIP 2013)	Presumed Absestos-Containing Material Removal Area
N Date: September 2016 Project No. 3293161676	Soil Removed by Excavation 1 Inch = 140 Feet
W S E Prawn: KH Figure: 2-2 foster wheeler	Approximate Site Boundary

sp

TABLES

TABLE 2.1 PROJECT TEAMFormer Calumet Stamp Mill SiteLake Linden, Michigan

Company	Role
Brian Kelly USEPA -Region V Emergency Response Branch 9311 Groh Road Grosse Ile, MI 48138 (734) 692-7684	Regulatory Agency
Amy Kerenan MDEQ -Upper Peninsula District Office 1504 West Washington Street Marquette, MI 49855 (906) 228-4853	Regulatory Agency
Chris Burns Tetra Tech, Inc. 1 S. Wacker Drive, Suite 3700 Chicago, IL 60606 (312) 201-7700	USEPA START Contractor
Jeff Binkley Mannik & Smith Group, Inc. 200 Michigan Street, Suite 705 Hancock MI, 49930 (906) 281-3404	USEPA START Contractor
Chuck Geadelmann Honeywell Specialty Materials, LLC 1985 Douglas Drive N Golden Valley, MN 49945 (763) 954-5418	Respondent
John Berry Houghton County Historical Museum and Society 53102 Highway M-26 Lake Linden, MI 49945 (906) 296-4121	Respondent
Michael McGowan AMEC Foster Wheeler Environment and Infrastructure, Inc. 46850 Magellan Drive, Suite 190 Novi, MI 48377-2448 (248) 926-4008	Prime Contractor
Richard Walsh Terra Contracting Services, LLC: 5100 West Michigan Avenue Kalamazoo, Michigan 49006 (269) 375-9595	Abatement and General Subcontractor
Brian Bonen B&B Contracting Calumet, Inc. 55670 Highway M26 Calumet, MI 49913 (906) 337-0017	Transportation Services, Excavation, Backfill Contractor
Patrick Finn Analytical Testing & Consulting Services, Inc. 14625 Doster Road Plainwell MI 49080 (269) 664-6474	Asbestos Air Sampling Onsite Analytical Laboratory

TABLE 2.1 PROJECT TEAM Former Calumet Stamp Mill Site Lake Linden, Michigan

Company	Role
QuanTEM Laboratories 2033 Heritage Park Drive Oklahoma City, OK 73120 (405) 755-7272	Asbestos Air Sampling Analytical Laboratory
K&W Landfill, Inc. 1187 State Highway M38 Ontonagon, MI 49953 (906) 883-3504	Disposal Facility

TABLE 3.1 PROJECT CHRONOLOGY Former Calumet Stamp Mill Site Torch Lake Township, Michigan 3293161707

Date	Summary of Activities							
October	Fence and sign the area to become the exclusion zone.							
2016	• Setup the decontamination trailer and delineate the contaminant reduction							
	zone.							
	Setup the support zone and designate rallying points.							
	Complete pickup of suspect surficial asbestos containing debris.							
November	Completed trench excavation and backfill on the Hecla Stamp Mill.							
2016	 Completed foundation cleaning on the Hecla Stamp Mill. 							
	 Waste profile completed for the asbestos containing material (ACM) waste stream 							
	 Landfill approval to accept the ACM waste stream. 							
	Excavated trenches in the Calumet Stamp Mill foundation.							
	Washed the trenches and foundation of the Calumet Stamp Mill.							
	Secured the site for the Holiday weekend.							
	 Loaded Transported and disposed 741.20 tons of ACM in lined 							
	trucks/dumpster.							
	Remove Danger Asbestos signage.							
	Received analytical results for the backfill material: Acceptable for use.							
	 Imported approximately 435 cubic yards of backfill material. 							
	 Backfill approximately 40% of the trenches on the Calumet Stamp Mill foundation. 							
	Begin removing pitch mastic from the floatation tank foundation rims.							
	• Affix steel plates into the 20 openings in the floatation tank foundations.							
	Complete personal and perimeter air monitoring during work activities.							
December	Completed approximately 50% of the pitch mastic removal from the							
2016	floatation tank foundation rims.							
	Secured the site for the winter.							
	Demobilize equipment and supplies for the winter.							
April 2017	Complete the asbestos containing pitch mastic removal and disposal							
May	Complete site restoration: Trench backfill, excavation backfill, seeding and							
2017	mulching.							
	Remove construction fence.							
	Demobilize.							

TABLE 3.2 Perimeter Ambient Air Sampling Results Week of 10/30/2016 Calumet Stamp Mill Lake Linden, MI

			Fiber Concentration	Fraction	Asbestos Concentration (f/cc)	Action Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
11/2/2016	CSMS-R01-AB01-161102	Sta. 01	<0.00423			0.05	
11/2/2016	CSMS-R01-AB02-161102	Sta. 02	<0.00786			0.05	
11/2/2016	CSMS-R01-AB03-161102	Sta. 03	<0.00415			0.05	
11/2/2016	CSMS-R01-AB04-161102	Sta. 04	<0.00228			0.05	
11/2/2016	CSMS-R01-ABMU-161102	Sta. Museum	<0.00548			0.05	
11/2/2016	CSMS-R01-ABNP-161102	Sta. North Park	<0.00323			0.05	
11/2/2016	CSMS-R01-FB01-161102	Field Blank (open)	NA			NA	
11/2/2016	CSMS-R01-FB02-161102	Field Blank (closed)	NA			NA	
11/3/2016	CSMS-R01-AB01-161103	Sta. 01	<0.0035			0.05	
11/3/2016	CSMS-R01-AB02-161103	Sta. 02	<0.00341			0.05	
11/3/2016	CSMS-R01-AB03-161103	Sta. 03	<0.00256			0.05	
11/3/2016	CSMS-R01-AB04-161103	Sta. 04	<0.00692			0.05	
11/3/2016	CSMS-R01-ABMU-161103	Sta. Museum	<0.00262			0.05	
11/3/2016	CSMS-R01-ABNP-161103	Sta. North Park	<0.00191			0.05	
11/3/2016	CSMS-R01-FB01-161103	Field Blank (open)	NA			NA	
11/3/2016	CSMS-R01-FB02-161103	Field Blank (closed)	NA			NA	
11/4/2016	CSMS-R01-AB01-161104	Sta. 01	<0.00181			0.05	
11/4/2016	CSMS-R01-AB02-161104	Sta. 02	<0.00615			0.05	
11/4/2016	CSMS-R01-AB03-161104	Sta. 03	<0.00260			0.05	
11/4/2016	CSMS-R01-AB04-161104	Sta. 04	<0.00744			0.05	
11/4/2016	CSMS-R01-ABMU-161104	Sta. Museum	<0.00229			0.05	
11/4/2016	CSMS-R01-ABNP-161104	Sta. North Park	<0.003289			0.05	
11/4/2016	CSMS-R01-FB01-161104	Field Blank (open)	NA			NA	
11/4/2016	CSMS-R01-FB02-161104	Field Blank (closed)	NA			NA	
4.4/5/00.4.0			0.00505		1	0.05	
11/5/2016	CSMS-R01-AB01-161105	Sta. 01	< 0.00565			0.05	
11/5/2016	CSMS-R01-AB02-161105	Sta. 02	<0.00333			0.05	
11/5/2016	CSMS-R01-AB03-161105	Sta. 03	<0.00309			0.05	
11/5/2016	CSMS-R01-AB04-161105	Sta. 04	<0.00238			0.05	
11/5/2016	CSMS-R01-ABMU-161105	Sta. Museum	<0.00165			0.05	
11/5/2016	CSMS-R01-ABNP-161105	Sta. North Park	<0.00210			0.05	
11/5/2016	CSMS-R01-FB01-161105	Field Blank (open)	NA			NA	
11/5/2016 Notes:	CSMS-R01-FB02-161105	Field Blank (closed)	NA			NA	

Notes:

f/cc = fibers per cubic centimeter

NA = Not analyzed

TDL = Target Detection Limit (10% of permissable exposure limit)

TABLE 3.2 Perimeter Ambient Air Sampling Results Week of 11/6/2016 Calumet Stamp Mill Lake Linden, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
11/7/2016	CSMS-R01-AB01-161107	Sta. 01	<0.00316			0.05	
11/7/2016	CSMS-R01-AB02-161107	Sta. 02	<0.00292			0.05	
11/7/2016	CSMS-R01-AB03-161107		<0.00525			0.05	
11/7/2016			<0.00232			0.05	
11/7/2016	CSMS-R01-ABMU-161107		< 0.00153			0.05	
11/7/2016	CSMS-R01-ABNP-161107	Sta. North Park	<0.00193			0.05	
11/7/2016		Field Blank (open)	NA			NA	
11/7/2016	CSMS-R01-FB02-161107	Field Blank (closed)	NA			NA	
11/8/2016	CSMS-R01-AB01-161108	Sta. 01	<0.00535			0.05	
11/8/2016	CSMS-R01-AB02-161108	Sta. 02	<0.00192			0.05	
11/8/2016	CSMS-R01-AB03-161108	Sta. 03	<0.00153			0.05	
11/8/2016	CSMS-R01-AB04-161108	Sta. 04	< 0.00300			0.05	
11/8/2016	CSMS-R01-ABMU-161108	Sta. Museum	<0.00298			0.05	
11/8/2016	CSMS-R01-ABNP-161108	Sta. North Park	<0.00239			0.05	
11/8/2016	CSMS-R01-FB01-161108	Field Blank (open)	NA			NA	
11/8/2016	CSMS-R01-FB02-161108	Field Blank (closed)	NA			NA	
11/0/0010	00110 004 4004 404400	01 01				0.05	
11/9/2016	CSMS-R01-AB01-161109		<0.00773			0.05	
11/9/2016	CSMS-R01-AB02-161109	Sta. 02	< 0.00196			0.05	
11/9/2016	CSMS-R01-AB03-161109		< 0.00310			0.05	
11/9/2016	CSMS-R01-AB04-161109		< 0.00256			0.05	
11/9/2016 11/9/2016	CSMS-R01-ABMU-161109 CSMS-R01-ABNP-161109		<0.00262 <0.00156			0.05	
11/9/2016	CSMS-R01-ABNF-101109		<0.00150 NA			0.05 NA	
11/9/2016		Field Blank (closed)	NA			NA	
11/9/2010	C3W3-R01-FB02-101109	Field Bialik (Closed)	NA			INA	
11/10/2016	CSMS-R01-AB01-161110	Sta 01	0.00305			0.05	
11/10/2016	CSMS-R01-AB02-161110		0.00227			0.05	
11/10/2016	CSMS-R01-AB03-161110		0.00192			0.05	
11/10/2016	CSMS-R01-AB04-161110		0.00177			0.05	
11/10/2016	CSMS-R01-ABMU-161110		0.00269			0.05	
11/10/2016	CSMS-R01-ABNP-161110		0.0294			0.05	
11/10/2016	CSMS-R01-FB01-161110		NA			NA	
11/10/2016	CSMS-R01-FB02-161110	Field Blank (closed)	NA			NA	
	•						·
11/11/2016	CSMS-R01-AB01-161111	Sta. 01	<0.00355			0.05	
11/11/2016		Sta. 02	<0.00288			0.05	
11/11/2016	CSMS-R01-AB03-161111	Sta. 03	<0.00313			0.05	
11/11/2016	CSMS-R01-AB04-161111	Sta. 04	<0.00552			0.05	
11/11/2016	CSMS-R01-ABMU-161111	Sta. Museum	<0.00158			0.05	
11/11/2016	CSMS-R01-ABNP-161111		<0.00195			0.05	
11/11/2016	CSMS-R01-FB01-161111		NA			NA	
11/11/2016	CSMS-R01-FB02-161111	Field Blank (closed)	NA			NA	
11/12/2016	CSMS-R01-AB01-161112	Sta 01	<0.00270			0.05	
11/12/2016	CSMS-R01-AB01-161112 CSMS-R01-AB02-161112		<0.00270			0.05	1
11/12/2016	CSMS-R01-AB02-101112 CSMS-R01-AB03-161112		<0.00230			0.05	
11/12/2016	CSMS-R01-AB04-161112		<0.00233			0.05	
11/12/2016	CSMS-R01-ABMU-161112		<0.00154			0.05	<u> </u>
11/12/2016	CSMS-R01-ABNP-161112		<0.00134			0.05	
11/12/2016	CSMS-R01-FB01-161112		NA			NA	
11/12/2016	CSMS-R01-FB02-161112		NA			NA	
Notes:					۰		<u>بــــــــــــــــــــــــــــــــــــ</u>

Notes: f/cc = fibers per cubic centimeter

TABLE 3.2 Perimeter Ambient Air Sampling Results Week of 11/13/2016 Calumet Stamp Mill Lake Linden, MI

·				r			
					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
11/14/2016	CSMS-R01-AB01-161114	Sta. 01	<0.00187			0.05	
11/14/2016	CSMS-R01-AB02-161114	Sta. 02	<0.00285			0.05	
11/14/2016	CSMS-R01-AB03-161114	Sta. 03	< 0.00244			0.05	
11/14/2016	CSMS-R01-AB04-161114	Sta. 04	<0.00241			0.05	
11/14/2016	CSMS-R01-ABMU-161114	Sta. Museum	<0.00158			0.05	
11/14/2016	CSMS-R01-ABNP-161114	Sta. North Park	< 0.00260			0.05	
11/14/2016			NA			NA	
11/14/2016	CSMS-R01-FB02-161114		NA			NA	
		(*****)					
11/15/2016	CSMS-R01-AB01-161115	Sta. 01	<0.00130			0.05	
11/15/2016	CSMS-R01-AB02-161115		<0.00222			0.05	
11/15/2016	CSMS-R01-AB03-161115		< 0.00209			0.05	
11/15/2016	CSMS-R01-AB04-161115		< 0.00199			0.05	
11/15/2016	CSMS-R01-ABMU-161115		< 0.00223			0.05	
11/15/2016	CSMS-R01-ABNP-161115		<0.00155			0.05	
11/15/2016	CSMS-R01-FB01-161115		NA			NA	
11/15/2016	CSMS-R01-FB02-161115		NA			NA	
11/10/2010		Tield Blaint (blobed)		1		10/1	
11/16/2016	CSMS-R01-AB01-161116	Sta. 01	<0.00185			0.05	
11/16/2016		Sta. 02	<0.00158			0.05	
11/16/2016	CSMS-R01-AB03-161116	Sta. 03	<0.00238			0.05	
11/16/2016		Sta. 04	<0.00238			0.05	
11/16/2016	CSMS-R01-ABMU-161116		<0.00235			0.05	
11/16/2016	CSMS-R01-ABNP-161116		<0.00203			0.05	
11/16/2016		Field Blank (open)	NA			NA	
11/16/2016		Field Blank (closed)	NA			NA	
11/10/2010	C3M3-101-1 B02-101110	Tielu Dialik (closeu)	NA NA			INA.	
11/17/2016	CSMS-R01-AB01-161117	Sto 01	<0.00280			0.05	
11/17/2016	CSMS-R01-AB02-161117	Sta. 02	<0.00280			0.05	
11/17/2016	CSMS-R01-AB02-161117	Sta. 02 Sta. 03	<0.00283			0.05	
11/17/2016	CSMS-R01-AB04-161117		<0.00240			0.05	
11/17/2016		Sta. 04					
	CSMS-R01-ABMU-161117		< 0.00164			0.05	
11/17/2016	CSMS-R01-ABNP-161117		0.00217			0.05	
11/17/2016		Field Blank (open)	NA			NA	
11/17/2016	CSMS-R01-FB02-161117	Field Blank (closed)	NA			NA	
4440/0040	0010 001 101110	01 01		r		0.05	
	CSMS-R01-AB01-161118		<0.00620			0.05	
	CSMS-R01-AB02-161118		<0.00623			0.05	
11/18/2016	CSMS-R01-AB03-161118	Sta. 03	<0.00626			0.05	
11/18/2016		Sta. 04	<0.00630			0.05	
11/18/2016	CSMS-R01-ABMU-161118		<0.00630			0.05	
11/18/2016	CSMS-R01-ABNP-161118		<0.00626			0.05	
11/18/2016	CSMS-R01-FB01-161118		NA			NA	
11/18/2016	CSMS-R01-FB02-161118	Field Blank (closed)	NA			NA	
				1			
11/19/2016	CSMS-R01-AB01-161119	Sta. 01	No Samples				
11/19/2016	CSMS-R01-AB02-161119	Sta. 02	Did not Work				
11/19/2016	CSMS-R01-AB03-161119						
11/19/2016	CSMS-R01-AB04-161119	Sta. 04					
11/19/2016	CSMS-R01-ABMU-161119						
11/19/2016	CSMS-R01-ABNP-161119						
11/19/2016	CSMS-R01-FB01-161119						
	CSMS-R01-FB02-161119	Field Blank (closed)					
Notes:					-		

Notes: f/cc = fibers per cubic centimeter

TABLE 3.2 Perimeter Ambient Air Sampling Results Week of 11/20/2016 Calumet Stamp Mill Lake Linden, MI

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				Europei eur	Asbestos	Action	
Date	Sample ID	Sample Location	Fiber Concentration (f/cc) (PCM Analysis)	Fraction Asbestos (%)	Concentration (f/cc) (TEM analysisi)	Limit (f/cc)	Notes
11/21/2016	CSMS-R01-AB01-161121	Sta. 01	<0.00254	Aspestos (%)		0.05	Notes
11/21/2016	CSMS-R01-AB02-161121	Sta. 01	<0.00234			0.05	
11/21/2016	CSMS-R01-AB03-161121		<0.00201			0.05	
11/21/2016	CSMS-R01-AB04-161121	Sta. 05	<0.00210			0.05	
11/21/2016	CSMS-R01-ABMU-161121		<0.00217			0.05	
11/21/2016	CSMS-R01-ABNP-161121		0.00150			0.05	
11/21/2016	CSMS-R01-FB01-161121		NA			NA	
11/21/2016	CSMS-R01-FB02-161121		NA			NA	
1112112010	Bollio Horr Boe Horre	r iola Bialitt (biooda)					
11/22/2016	CSMS-R01-AB01-161122	Sta. 01	<0.00301			0.05	
11/22/2016	CSMS-R01-AB02-161122	Sta. 02	< 0.00279			0.05	
11/22/2016	CSMS-R01-AB03-161122	Sta. 03	<0.00230			0.05	
11/22/2016	CSMS-R01-AB04-161122	Sta. 04	<0.00182			0.05	
11/22/2016	CSMS-R01-ABMU-161122		< 0.00163			0.05	
11/22/2016	CSMS-R01-ABNP-161122	Sta. North Park	<0.00235			0.05	
11/22/2016	CSMS-R01-FB01-161122	Field Blank (open)	NA			NA	
11/22/2016	CSMS-R01-FB02-161122	Field Blank (closed)	NA			NA	
	•		•				
11/23/2016	CSMS-R01-AB01-161123	Sta. 01	No Samples			0.05	
11/23/2016	CSMS-R01-AB02-161123	Sta. 02	Did not Work			0.05	
11/23/2016	CSMS-R01-AB03-161123	Sta. 03	Thanksgiving			0.05	
11/23/2016	CSMS-R01-AB04-161123	Sta. 04	Holiday			0.05	
11/23/2016	CSMS-R01-ABMU-161123	Sta. Museum				0.05	
11/23/2016	CSMS-R01-ABNP-161123	Sta. North Park				0.05	
11/23/2016	CSMS-R01-FB01-161116					NA	
11/23/2016	CSMS-R01-FB02-161123	Field Blank (closed)				NA	
	CSMS-R01-AB01-161124		No Samples			0.05	
	CSMS-R01-AB02-161124		Did not Work			0.05	
11/24/2016	CSMS-R01-AB03-161124	Sta. 03	Thanksgiving			0.05	
	CSMS-R01-AB04-161124		Holiday			0.05	
11/24/2016	CSMS-R01-ABMU-161124					0.05	
	CSMS-R01-ABNP-161124					0.05	
11/24/2016	CSMS-R01-FB01-161124					NA	
11/24/2016	CSMS-R01-FB02-161124	Field Blank (closed)				NA	
44/05/0040	00140 004 4004 404405	01- 04	No Osmalas			0.05	
11/25/2016	CSMS-R01-AB01-161125		No Samples			0.05	
11/25/2016 11/25/2016	CSMS-R01-AB02-161125		Did not Work			0.05	
11/25/2016	CSMS-R01-AB03-161125 CSMS-R01-AB04-161125	Sta. 03	Thanksgiving Holiday			0.05	
11/25/2016	CSMS-R01-AB04-161125 CSMS-R01-ABMU-161125		Holiday			0.05	
11/25/2016	CSMS-R01-ABNP-161125					0.05	
11/25/2016	CSMS-R01-FB01-161125					0.05 NA	
11/25/2016	CSMS-R01-FB02-161125					NA	
11/23/2010	0000-101-1002-101120		1	1	I	N/A	
11/26/2016	CSMS-R01-AB01-161126	Sta. 01	No Samples			0.05	
11/26/2016	CSMS-R01-AB02-161126	Sta. 01	Did not Work			0.05	
11/26/2016	CSMS-R01-AB03-161126	Sta. 02 Sta. 03	Thanksgiving			0.05	
11/26/2016	CSMS-R01-AB04-161126	Sta. 03	Holiday			0.05	
11/26/2016	CSMS-R01-ABMU-161126		Tioliday			0.05	
11/26/2016	CSMS-R01-ABNP-161126					0.05	
11/26/2016	CSMS-R01-FB01-161126	Field Blank (open)				NA	
	CSMS-R01-FB02-161126					NA	
Notes:			•		• •		

Notes: f/cc = fibers per cubic centimeter

TABLE 3.2 Perimeter Ambient Air Sampling Results Week of 11/27/2016 Calumet Stamp Mill Lake Linden, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
11/28/2016	CSMS-R01-AB01-161128	Sta. 01	<0.00290			0.05	
11/28/2016	CSMS-R01-AB02-161128		<0.00296			0.05	
11/28/2016	CSMS-R01-AB03-161128		<0.00165			0.05	
11/28/2016	CSMS-R01-AB04-161128		<0.00254			0.05	
11/28/2016	CSMS-R01-ABMU-161128		<0.00245			0.05	
11/28/2016	CSMS-R01-ABNP-161128		<0.00202			0.05	
11/28/2016	CSMS-R01-FB01-161128		NA			NA	
11/28/2016	CSMS-R01-FB02-161128	Field Blank (closed)	NA			NA	
11/29/2016	CSMS-R01-AB01-161129	Sta. 01	<0.00274			0.05	
11/29/2016			<0.00288			0.05	
11/29/2016	CSMS-R01-AB03-161129	Sta. 03	<0.00163			0.05	
11/29/2016	CSMS-R01-AB04-161129	Sta. 04	<0.00195			0.05	
11/29/2016	CSMS-R01-ABMU-161129	Sta. Museum	<0.00238			0.05	
11/29/2016	CSMS-R01-ABNP-161129	Sta. North Park	<0.00239			0.05	
11/29/2016	CSMS-R01-FB01-161129	Field Blank (open)	NA			NA	
11/29/2016	CSMS-R01-FB02-161129	Field Blank (closed)	NA			NA	
11/30/2016	CSMS-R01-AB01-161130		<0.00249			0.05	
11/30/2016	CSMS-R01-AB02-161130	Sta. 02	<0.00248			0.05	
11/30/2016	CSMS-R01-AB03-161130		<0.00211			0.05	
11/30/2016	CSMS-R01-AB04-161130		<0.00207			0.05	
11/30/2016	CSMS-R01-ABMU-161130		<0.00145 <0.00170			0.05	
11/30/2016 11/30/2016	CSMS-R01-ABNP-161130 CSMS-R01-FB01-161130		<0.00170 NA			0.05	
11/30/2016		Field Blank (closed)	NA			NA NA	
11/30/2016	C3NI3-R01-FB02-101130	FIEID BIAITK (Closed)	NA			NA	
12/1/2016	CSMS-R01-AB01-161201	Sta. 01	< 0.00272			0.05	
12/1/2016	CSMS-R01-AB02-161201	Sta. 02	<0.00272			0.05	
12/1/2016	CSMS-R01-AB03-161201	Sta. 03	<0.00212			0.05	
12/1/2016	CSMS-R01-AB04-161201	Sta. 04	<0.00212			0.05	
12/1/2016	CSMS-R01-ABMU-161201		<0.00273			0.05	
12/1/2016	CSMS-R01-ABNP-161201		<0.00177			0.05	
12/1/2016	CSMS-R01-FB01-161201	Field Blank (open)	NA			NA	
12/1/2016	CSMS-R01-FB02-161201	Field Blank (closed)	NA			NA	
12/2/2016	CSMS-R01-AB01-161202	Sta. 01	<0.00150			0.05	
12/2/2016	CSMS-R01-AB02-161202	Sta. 02	<0.00280			0.05	
12/2/2016	CSMS-R01-AB03-161202	Sta. 03	<0.00225			0.05	
12/2/2016	CSMS-R01-AB04-161202	Sta. 04	<0.00215			0.05	
12/2/2016	CSMS-R01-ABMU-161202	Sta. Museum	<0.00183			0.05	
12/2/2016	CSMS-R01-ABNP-161202		<0.00272			0.05	
12/2/2016	CSMS-R01-FB01-161202		NA			NA	
12/2/2016	CSMS-R01-FB02-161202	Field Blank (closed)	NA			NA	
10/0/0010	00110 001 10001 101000	01 01	.0.00101			0.05	
12/3/2016	CSMS-R01-AB01-161203		<0.00181			0.05	
12/3/2016 12/3/2016	CSMS-R01-AB02-161203	Sta. 02	<0.00151 <0.00261			0.05	
	CSMS-R01-AB03-161203	Sta. 03				0.05	
12/3/2016 12/3/2016	CSMS-R01-AB04-161203 CSMS-R01-ABMU-161203		<0.00255 <0.00213				
12/3/2016	CSMS-R01-ABM0-161203 CSMS-R01-ABNP-161203		<0.00213			0.05	
12/3/2016		Field Blank (open)	<0.00216 NA			0.05 NA	
12/3/2016	CSMS-R01-FB01-161203		NA			NA	
Notes:	0000-101-1002-101200		11/5		<u> </u>	11/1	ļ]

Notes: f/cc = fibers per cubic centimeter

TABLE 3.2 Perimeter Ambient Air Sampling Results Week of 12/4/2016 Calumet Stamp Mill Lake Linden, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
12/5/2016	CSMS-R01-AB01-161205	Sta. 01	<0.00192			0.05	
12/5/2016	CSMS-R01-AB02-161205	Sta. 02	<0.00159			0.05	
12/5/2016	CSMS-R01-AB03-161205	Sta. 03	<0.00275			0.05	
12/5/2016	CSMS-R01-AB04-161205		<0.00258			0.05	
12/5/2016	CSMS-R01-ABMU-161205		<0.00225			0.05	
12/5/2016	CSMS-R01-ABNP-161205	Sta. North Park	<0.00220			0.05	
12/5/2016		Field Blank (open)	NA			NA	
12/5/2016	CSMS-R01-FB02-161205	Field Blank (closed)	NA			NA	
		1					
12/6/2016		Sta. 01	<0.00217			0.05	
12/6/2016	CSMS-R01-AB02-161206		< 0.00209			0.05	
12/6/2016	CSMS-R01-AB03-161206		<0.00170			0.05	
12/6/2016	CSMS-R01-AB04-161206		< 0.00145			0.05	
12/6/2016	CSMS-R01-ABMU-161206		< 0.00203			0.05	
12/6/2016	CSMS-R01-ABNP-161206		<0.00204			0.05	
12/6/2016	CSMS-R01-FB01-161206		NA NA			NA	
12/6/2016	CSMS-R01-FB02-161206	Field Blank (closed)	NA			NA	
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f/cc = fibers per cubic centimeter

TABLE 3.2 Perimeter Ambient Air Sampling Results Week of 4/22/2016 Calumet Stamp Mill Lake Linden, MI

					Asbestos	Action					
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit					
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes				
4/25/2017		Sta. 01	<0.00381		(12	0.05					
4/25/2017	CSMS-R01-AB02-170425	Sta. 02	< 0.00393			0.05					
4/25/2017	CSMS-R01-AB03-170425	Sta. 03	<0.00310			0.05					
4/25/2017	CSMS-R01-AB04-170425	Sta. 04	<0.00117			0.05					
4/25/2017	CSMS-R01-ABMU-170425		<0.00144			0.05					
4/25/2017	CSMS-R01-ABNP-170425	Sta. North Park	<0.00420			0.05					
4/25/2017	CSMS-R01-FB01-170425	Field Blank (open)	N/A			NA					
4/25/2017	CSMS-R01-FB02-170425	Field Blank (closed)	N/A			NA					
4/26/2017	CSMS-R01-AB01-170426		Not Deplyed due to wet v	veather.		0.05					
4/26/2017	CSMS-R01-AB02-170426					0.05					
4/26/2017	CSMS-R01-AB03-170426					0.05					
4/26/2017	CSMS-R01-AB04-170426					0.05					
4/26/2017	CSMS-R01-ABMU-170426					0.05					
4/26/2017	CSMS-R01-ABNP-170426					0.05					
4/26/2017	CSMS-R01-FB01-170426					NA					
4/26/2017	CSMS-R01-FB02-170426	Field Blank (closed)				NA					
4/27/2017	CSMS-R01-AB01-170427	Sta 01	< 0.00330			0.05					
4/27/2017		Sta. 01	<0.00332			0.05					
4/27/2017		Sta. 02	<0.00332			0.05					
4/27/2017	CSMS-R01-AB04-170427		<0.00302			0.05					
4/27/2017	CSMS-R01-ABMU-170427		<0.00309			0.05					
4/27/2017	CSMS-R01-ABNP-170427		<0.00141			0.05					
4/27/2017		Field Blank (open)	N/A			NA					
4/27/2017		Field Blank (closed)	N/A			NA					
4/28/2017	CSMS-R01-AB01-170428	Sta. 01	< 0.00318			0.05					
4/28/2017	CSMS-R01-AB02-170428	Sta. 02	< 0.00366			0.05					
4/28/2017	CSMS-R01-AB03-170428	Sta. 03	< 0.00309			0.05					
4/28/2017	CSMS-R01-AB04-170428	Sta. 04	<0.00308			0.05					
4/28/2017	CSMS-R01-ABMU-170428	Sta. Museum	<0.00145			0.05					
4/28/2017	CSMS-R01-ABNP-170428	Sta. North Park	0.00257			0.05					
4/28/2017	CSMS-R01-FB01-170428		N/A			NA					
4/28/2017	CSMS-R01-FB02-170428	Field Blank (closed)	N/A			NA					
	1					1					
	Perimeter air monitoring ce	ased asbestos remova	l complete.								
L	I	I	I	1	I		1				
	1										
	1		1	1							
Notes:	•	•					•				

Notes: f/cc = fibers per cubic centimeter

TABLE 3.3 Disposal Tracking for Soil Containing Asbestos and Double Bagged ACMs Calumet Stamp Mill Site Lake Linden, Michigan

Date	Truck Number	Manifest Number	Weigh Ticket Original Weigh Tic		Transporter	Weight
			Number	Number	-	(Tons)
11/15/2016	109	1001	11261045	278294	B&B CONTRACTING	48.86
11/15/2016	750	1002	11261061	278312	WENDER & SONS	54.26
11/15/2016	751	1003	11261050	278297	WENDER & SONS	53.60
11/15/2016	109	107922	11261063	278307	B&B CONTRACTING	51.12
11/15/2016	750	107923	11261059	278308	WENDER & SONS	53.92
11/15/2016	751	107924	11261066	278309	WENDER & SONS	53.57
11/16/2016	750	107925	11261073	278318	WENDER & SONS	52.31
11/16/2016	751	107926	11261074	278320	WENDER & SONS	52.18
11/16/2016	109	107927	11261077	278322	B&B CONTRACTING	51.12
11/16/2016	751	107928	11261085	278331	WENDER & SONS	52.27
11/16/2016	750	107929	11261082	278330	WENDER & SONS	51.25
11/17/2016	109	107930	11261101	278345	B&B CONTRACTING	46.61
11/18/2016	109	107931	11261122	278367	B&B CONTRACTING	48.70
11/29/2016	136	107932	11261239	278487	B&B CONTRACTING	49.46
12/1/2016	109	107933	11261279	278527	B&B CONTRACTING	20.62
12/9/2016	Roll Off	107934	NA	NA	Waste Management Roll Off	1.35
5/1/2017	Roll Off	88181	NA	NA	Waste Management Roll Off	2.30

Total Excavation Tons: 739.85

Total Tons Disposed: 743.50

Notes: The roll offs were not included in the excavation calculation because they were filled with Non-friable asbestos and plastic sheeting, not soil.

Materials were disposed at K&W Landfill, Ontonagon Michigan

Original weigh ticket is computer generated at the landfill

APPENDIX A

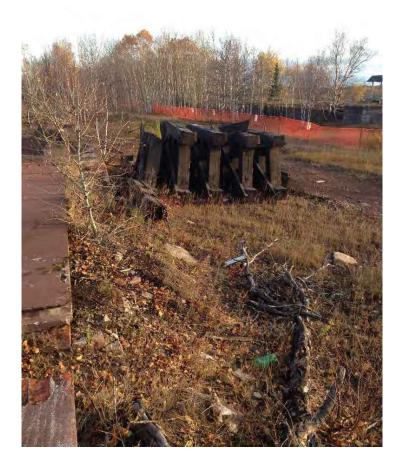
Photographic Log

Construction Report Calumet Stamp Mill Site Lake Linden, Michigan Page 1 of 36



Photo 1: Historical Museum Train Depot – Fence in Background

Photo 2: Fence along the east side of the Site



Construction Report Calumet Stamp Mill Site Lake Linden, Michigan Page 2 of 36



Photo 3: East side of Calumet Stamp Mill foundation facing south.

Photo 4: Surficial Asbestos Removal





Construction Report Calumet Stamp Mill Site Lake Linden, Michigan Page 3 of 36 Photo 5: Roofing Material Removed from behind the Historical Museum Train Depot

Photo 6: Removing trees from trenches in the Hecla Stamp Mill foundation



Photo 7: Removing trees from the east edge of Hecla Mill foundation.



Photo 8: Soil staging area within the exclusion zone





Photo 9: Excavating trenches on the Calumet Stamp Mill foundation

Photo 10: Cleaning the North end of the Hecla Stamp Mill Foundation





Photo 11: South end of Calumet Stamp Mill Cleaned to stockpile backfill

Photo 12: Place clean topsoil backfill on the southeastern corner of the Calumet Stamp Mill.





Photo 13: Dust control during Calumet Stamp Mill cleaning

Photo 14: North end of the Hecla Stamp Mill foundation after cleaning prior to backfill.



Photo 15: Loading plastic sheeting lined trucks with assumed asbestos containing material



Photo 16: Sealing the material within truck beds after filling





Photo 17: Excavating 6-inches of soil from the eastern edge of the Calumet Stamp Mill.

Photo 18: Excavation of the eastern edge of the Calumet Stamp Mill nearly complete







Construction Report Calumet Stamp Mill Site Lake Linden, Michigan Page 11 of 36 Photo 21: Decontaminating skid steer prior to removal from the Exclusion zone.



Photo 22: Decontaminated equipment awaiting pickup.





Photo 23: Apparent mixing balls removed from a trench; washed and saved.

Photo 24: Cleaning the Calumet Stamp Mill trenches and foundation



Construction Report Calumet Stamp Mill Site Lake Linden, Michigan Page 13 of 36 Photo 25: Decontamination of the mini excavator prior to leaving the Exclusion zone



Photo 26: Calumet Stamp Mill foundation prior to the Holiday week end.



Construction Report Calumet Stamp Mill Site Lake Linden, Michigan Page 14 of 36 Photo 27: The Asbestos containing soil pile secured for the Holiday week end.



Photo 28: Backfilling holes and trenches on the Hecla Stamp Mill foundation.





Photo 29: Hecla Stamp Mill foundation completed

Photo 30: Trenches and surface clean on the Calumet Stamp Mill foundation: Backfilling.



Photo 31: Demarcation layer in the deep trench.



Photo 32: Stopped backfilling due to wet site conditions.



Photo 33: Excavation of eastern edge of Calumet Stamp Mill foundation complete



Photo 34: Loading the final truck for landfill disposal of asbestos impacted soil.



Photo 35: Asbestos containing soil stockpile removed and area scraped.



Photo 36: Begin removing pitch mastic from flotation tank foundations.





Photo 37: Pneumatic micro-chisel (needle) gun used to remove pitch mastic.

Photo 38: Preparing to remove pitch mastic from floatation tank foundation after snow



Photo 39: Pitch mastic removal in the snow



Photo 40: Equipment setup for pitch mastic removal.





Photo 41: Dumpster for pitch mastic, debris, and plastic sheeting disposal.

Photo 42: Steel plate installation in floatation tank foundation openings.



Photo 43: Typical steel plate installation in the floatation tank foundation openings



Photo 44: Last day of mastic removal December 9, 2016: Weather causing significant delays.





Photo 45: 8x20' Steel plates placed over tunnel area for HCHMS.

Photo 46: Site secure for the winter 2016 with metal signage: facing south.





Photo 47: Site secure for the winter December 9, 2016: Facing north.



Photo 48: Site secure for the winter December 9, 2016: Facing east.

Photo 49: Site secure for the winter December 9, 2016: Facing west





Photo 50: Setting up for Final week of pitch mastic removal April 24, 2017

Photo 51: Equipment setup for final pitch mastic removal April 24, 2017





Photo 52: Final stages of pitch mastic removal and cleanup

Photo 53: Final inspection of floatation tank foundation pitch mastic removal





Photo 54: Final inspection of floatation tank foundation pitch mastic removal

Photo 55: Pitch mastic removal complete per START contractor





Photo 56: Facing south, final backfill in progress May 15, 2017

Photo 57: Final Cleanup of foundation after fill placement



Photo 58: East adjoining excavated area backfilled with 6-inches of "top soil"



Photo: 59: Backfill complete





Photo 60: Typical steel plate in floatation tank foundation

Photo 61: Seeding the east adjacent excavated area



Photo 62: Mulching the east adjacent excavated area



Photo 63: Applying tackifier to east adjacent excavated area





Photo 64: Final fence removal as part of site restoration

Photo 65: Site restoration, repairing ruts at the north end of the foundation



Photo 66: Former ACWM stockpile area restored



Photo 67: Top soil stockpile area restored





Photo 68: East adjacent excavated area restored





APPENDIX B

Weekly Progress Reports



HEALTH, SAFETY, ENVIRONMENTAL AND REMEDIATION WEEKLY PROGRESS/HIGHLIGHTS REPORT Honeywell RES Project: Calumet Stamp Mill Site Site No.: AMEC Foster Wheeler Project Number: 3293161707 Honeywell PO#: 4500195490

Week Beginning October 23, 2016

Calumet Stamp Mill Remediation Lake Linden, Michigan

I. SITE RESOURCES SUMMARY

Team	Sun	Mon	Tue	Wed	Thu	Fri	Sat
AMEC Foster Wheeler	0	0	0	11	16.75	13.5	0
Terra	0	0	0	52	52.5	51	0
WORKDAY MANHOURS	0	0	0	63	69.25	64.5	0
TOTAL MANHOURS							196.75

II. LOCAL RESOURCES

Team	Location	Total Weekly Manhours	Total Project Manhours	
None				

Team	Location	Total Weekly Tonnage	Total Project Tonnage	
None				

III. HEALTH & SAFETY

- Highlights
 - Completed Daily Safety Tailgates
 - Completed weekly checklist no issues noted

• Inspections and Audits

• N/A

• Incident / Near Miss

Contractor	Date of Incident	Incident / Near Miss
		No incidents during week beginning 10/24/16.

• Infraction Notices

Contractor	Date of Incident	Incident / Near Miss
		No infraction notices during week beginning 10/24/16.

IV. Pending Actions

• Continue to provide site orientation for new workers

V. ADMINISTRATIVE ITEMS

- Updated action task list All tasks to be completed.
- **Submittals** Personnel health and safety records, Activity Hazard Analysis forms for activities to be completed, Safety Data Sheets for possible chemicals brought onto the site.
- **Contract Items** No issues this period
- **Revised Baseline Schedule –** Not applicable.

VI. SCHEDULE / SITE ACTIVITY REVIEW

- Three-Week Schedule
 - Setup exclusion zone fence and place signage.
 - Pick up suspect asbestos containing debris.
 - Excavate trenches and clean foundations.

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 23, 2016 Page 3 of 6

• Work Accomplished

- Constructed exclusion zone fence and placed signage.
- Setup work zones; contaminant reduction zone and support zone.
- Begin suspect asbestos debris pickup.
- Reviewed workers training records.
- Conducted weekly Health and Safety checklist.
- Observed fence placement location and construction.

• Laboratory Results

• Not applicable

• Weekly Waste Materials:

TRANSPORTER	TRUCK TYPE	DESTINATION	TSDF	MATERIAL	TRUCK LOADS	AVG / TRUCK	AMOUNT SHIPPED
None							

VII. CONSTRUCTION CHANGE ORDERS

CCO No.	JUSTIFICATION	SCHEDULE IMPACT	COST IMPACT	CHANGE CODE	VALUE	STATUS
01	Working 5 Saturdays	Compress Schedule	\$2,700	1	\$2,700	Pending

Change Code:

Status:

(1) Scope Change, (2) Design Error/Omission, (3) Vendor Defect, (4) Vendor Deliveries, (5)
 Overtime, (6) Weather, (7) Site Conditions
 Pending, Submitted, Approved, Rejected

VIII. DISCUSSION ITEMS

Old Business

• none

New Business

None

IX. EQUIPMENT & MATERIALS

Equipment Delivered	Equipment Removed
 Mini Excavator Skid Steer Decontamination Trailer scaffolding 	•
Materials Delivered	Materials Removed
Fence posts and orange contactor fence.	None

X. COMMUNICATIONS / COMMUNITY RELATIONS

• None

XI. ADDENDUM(S) TO PREVIOUS MEETING MINUTES

• Not applicable

ATTACHMENTS

Photo Log

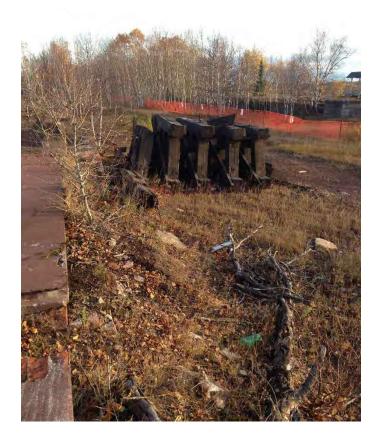
Submitted By: Joe Caryl And Amec Foster Wheeler Principal Construction Manager Kurt L. Cunningham, CPG Amec Foster Wheeler Site Lead and SHSO

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 23, 2016 Page 5 of 6



Photo 1: Historical Museum Train Depot – Fence in Background

Photo 2: Fence along the east side of the Site



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 23, 2016 Page 6 of 6



Photo 3: Constructing fence around the exclusion zone.

Photo 4: Surficial Asbestos Removal





HEALTH, SAFETY, ENVIRONMENTAL AND REMEDIATION WEEKLY PROGRESS/HIGHLIGHTS REPORT Honeywell RES Project: Calumet Stamp Mill Site Site No.: Amec Foster Wheeler Project Number: 3293161707 Honeywell PO#: 4500195490

Week Beginning October 30, 2016

Calumet Stamp Mill Remediation Lake Linden, Michigan

I. SITE RESOURCES SUMMARY

Team	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Amec Foster Wheeler	0	19	20	19.75	19.5	17.75	18.50
Terra	0	61.25	60.25	60	60	60	58.250
WORKDAY MANHOURS	0	80.25	80.25	79.75	79.50	77.75	76.75
TOTAL MANHOURS							474.25

II. LOCAL RESOURCES

Team	Location	Total Weekly Manhours	Total Project Manhours	
Bay Electric	Dollar Bay	4	4	

Team	Location	Total Weekly Tonnage	Total Project Tonnage
None			

III. HEALTH & SAFETY

• Highlights

- Completed Daily Safety Tailgates
- Completed weekly checklist no issues noted

Inspections and Audits

• N/A

• Incident / Near Miss

Contractor	Date of Incident	Incident / Near Miss
		No incidents during week beginning 10/30/16.

• Infraction Notices

Contractor	Date of Incident	Incident / Near Miss
		No infraction notices during week beginning 10/30/16.

IV. Pending Actions

• Continue to provide site orientation for new workers

V. ADMINISTRATIVE ITEMS

- Updated action task list All tasks to be completed.
- Submittals None
- Contract Items No issues this period
- Revised Baseline Schedule Not applicable.

VI. SCHEDULE / SITE ACTIVITY REVIEW

- Three-Week Schedule
 - Pick up suspect asbestos containing debris.
 - Excavate trenches and clean foundations.

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 30, 2016 Page 3 of 7

• Work Accomplished

- Suspect asbestos debris pickup complete.
- Begin trench excavation using equipment and hand tools on both the Hecla Mill and Calumet Mill.
- Walk the Site with the START contractor to complete the suspect asbestos pickup.
- Conducted weekly Health and Safety checklist.
- Observed trench excavation and foundation cleaning.

• Laboratory Results

• Not applicable

• Weekly Waste Materials:

TRANSPORTER	TRUCK TYPE	DESTINATION	TSDF	MATERIAL	TRUCK LOADS	AVG / TRUCK	AMOUNT SHIPPED
None							

VII. CONSTRUCTION CHANGE ORDERS

CCO No.	JUSTIFICATION	SCHEDULE IMPACT	COST IMPACT	CHANGE CODE	VALUE	STATUS
01	Working 5 Saturdays	Compress Schedule	\$2,700	1	\$2,700	Submitted

Change Code:

Status:

(1) Scope Change, (2) Design Error/Omission, (3) Vendor Defect, (4) Vendor Deliveries, (5) Overtime, (6) Weather, (7) Site Conditions Pending, Submitted, Approved, Rejected

VIII. DISCUSSION ITEMS

Old Business

• none

New Business

None

IX. EQUIPMENT & MATERIALS

Equipment Delivered	Equipment Removed
•	•
Materials Delivered	Materials Removed
•	None

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 30, 2016 Page 4 of 7

X. COMMUNICATIONS / COMMUNITY RELATIONS

• None

XI. ADDENDUM(S) TO PREVIOUS MEETING MINUTES

• Not applicable

ATTACHMENTS

Photo Log

• Perimeter Air Sampling Results Table

Submitted By:	Joe Caryl	And
	Amec Foster Wheeler	
	Principal Construction Manager	

Kurt L. Cunningham, CPG Amec Foster Wheeler Site Lead and SHSO

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 30, 2016 Page 5 of 7



Photo 1: Roofing Material Removed from behind the Historical Museum Train Depot

Photo 2: Removing trees from the Hecla Mill foundation



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 30, 2016 Page 6 of 7



Photo 3: Removing trees from the east edge of Hecla Mill foundation.

Photo 4: Soil staging area within the exclusion zone



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: October 30, 2016 Page 7 of 7



Photo 5: Excavating trenches on the Calumet Mill foundation

Perimeter Ambient Air Sampling Results Week of 10/30/2016 Calumet Stamp Mill Torch Lake Township, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
	CSMS-R01-AB01-161102	Sta. 01	<0.00423	1000000 (70)	(12	0.05	
	CSMS-R01-AB02-161102	Sta. 02	< 0.00786			0.05	
11/2/2016	CSMS-R01-AB03-161102	Sta. 03	< 0.00415			0.05	
11/2/2016	CSMS-R01-AB04-161102	Sta. 04	<0.00228			0.05	
11/2/2016	CSMS-R01-ABMU-161102	Sta. Museum	< 0.00548			0.05	
	CSMS-R01-ABNP-161102	Sta. North Park	< 0.00323			0.05	
11/2/2016	CSMS-R01-FB01-161102	Field Blank (open)	NA			NA	
11/2/2016	CSMS-R01-FB02-161102	Field Blank (closed)	NA			NA	
					1 1		
11/3/2016	CSMS-R01-AB01-161103	Sta. 01	<0.0035			0.05	
11/3/2016	CSMS-R01-AB02-161103	Sta. 02	<0.00341			0.05	
11/3/2016	CSMS-R01-AB03-161103	Sta. 03	<0.00256			0.05	
11/3/2016	CSMS-R01-AB04-161103	Sta. 04	<0.00692			0.05	
11/3/2016	CSMS-R01-ABMU-161103	Sta. Museum	<0.00262			0.05	
11/3/2016	CSMS-R01-ABNP-161103	Sta. North Park	<0.00191			0.05	
11/3/2016	CSMS-R01-FB01-161103	Field Blank (open)	NA			NA	
11/3/2016	CSMS-R01-FB02-161103	Field Blank (closed)	NA			NA	
							• •
11/4/2016	CSMS-R01-AB01-161104	Sta. 01	<0.00181			0.05	
11/4/2016	CSMS-R01-AB02-161104	Sta. 02	<0.00615			0.05	
11/4/2016	CSMS-R01-AB03-161104	Sta. 03	<0.00260			0.05	
	CSMS-R01-AB04-161104	Sta. 04	<0.00744			0.05	
	CSMS-R01-ABMU-161104	Sta. Museum	<0.00229			0.05	
	CSMS-R01-ABNP-161104	Sta. North Park	<0.003289			0.05	
11/4/2016	CSMS-R01-FB01-161104	Field Blank (open)	NA			NA	
11/4/2016	CSMS-R01-FB02-161104	Field Blank (closed)	NA			NA	
	CSMS-R01-AB01-161105	Sta. 01	<0.00565			0.05	
	CSMS-R01-AB02-161105	Sta. 02	<0.00333			0.05	
	CSMS-R01-AB03-161105	Sta. 03	<0.00309			0.05	
	CSMS-R01-AB04-161105	Sta. 04	<0.00238			0.05	
	CSMS-R01-ABMU-161105	Sta. Museum	<0.00165			0.05	
11/5/2016	CSMS-R01-ABNP-161105	Sta. North Park	<0.00210			0.05	
	CSMS-R01-FB01-161105	Field Blank (open)	NA			NA	
11/5/2016	CSMS-R01-FB02-161105	Field Blank (closed)	NA			NA	
Notes:							

f/cc = fibers per cubic centimeter

NA = Not analyzed

TDL = Target Detection Limit (10% of permissable exposure limit)



HEALTH, SAFETY, ENVIRONMENTAL AND REMEDIATION WEEKLY PROGRESS/HIGHLIGHTS REPORT Honeywell RES Project: Calumet Stamp Mill Site Site No.: AMEC Project Number: 3293161707 Honeywell PO#: 4500195490

Week Beginning November 6, 2016

Calumet Stamp Mill Remediation Lake Linden, Michigan

I. SITE RESOURCES SUMMARY

Team	Sun	Mon	Tue	Wed	Thu	Fri	Sat
AMEC	0	18	20.5	19.5	20	20	20
Terra	0	42.5	51.25	51.75	67.75	66	68.25
WORKDAY MANHOURS	0	60.50	71.75	71.25	87.75	86.00	88.25
TOTAL MANHOURS							465.5

II. LOCAL RESOURCES

Team	Location	Total Weekly Manhours	Total Project Manhours
Bay Electric	Dollar Bay		4
B&B Contracting	Laurium	53.5	53.5

Backfill soil:

Team	Location	Total Weekly Cubic Yards	Total Project Cubic Yards
B&B Contracting	Lake Linden	420	420

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 6, 2016 Page 2 of 7

III. HEALTH & SAFETY

• Highlights

- Completed Daily Safety Tailgates
- Completed weekly checklist no issues noted
- Completed site orientation for new workers.

Inspections and Audits

• N/A

• Incident / Near Miss

Contractor	Date of Incident	Incident / Near Miss
		No incidents during week beginning 9/21/14.

Infraction Notices

Contractor	Date of Incident	Incident / Near Miss	
		No infraction notices during week beginning 9/21/14.	

IV. Pending Actions

• Continue to provide site orientation for new workers

V. ADMINISTRATIVE ITEMS

- Updated action task list
 - Backfill the trenches on the Hecla Stamp Mill foundation.
 - Finish excavating the trenches on the Calumet Stamp Mill foundation.
 - Wash the Calumet Stamp Mill foundation.
 - Excavate soil along the eastern edge of the Calumet Stamp Mill foundation out 20 feet and down to 6-inches deep.
 - Backfill the trenches on the Calumet Stamp Mill foundation.
 - Backfill the excavated area along the Calumet Stamp Mill foundation.
 - Seed the backfilled area along the Calumet Stamp Mill foundation.
 - Haul asbestos impacted debris and soil off-site to K&W Landfill in Ontonagon, Michigan.
- Submittals –
- Contract Items No issues this period

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 6, 2016 Page 3 of 7

• **Revised Baseline Schedule –** Not applicable.

VI. SCHEDULE / SITE ACTIVITY REVIEW

• Three-Week Schedule

- Excavate trenches and clean foundations.
- Excavate soil from edge of Calumet Stamp Mill foundation.
- Transport and dispose asbestos containing debris and soil.
- Backfill trenches and area along the Calumet Stamp Mill foundation.
- Seed the backfill soil along the eastern edge of the Calumet Stamp Mill foundation.

• Work Accomplished

- Hecla Stamp Mill foundation trench excavation and cleaning.
- Waste profile provided to Waste Management for approval.
- Excavating trench on the Calumet Stamp Mill foundation.
- Completed personal air monitoring: all samples below detection limit (posted on-site).
- Completed perimeter air monitoring: all samples analyzed are below detection limits (posted on-site)
- Walk the Site with the START contractor to complete the Hecla Stamp Mill foundation cleaning.
- Conducted weekly Health and Safety checklist.
- Observed trench excavation, foundation cleaning, and soil stockpiling.

• Laboratory Results

• Perimeter air sample analysis provided as below detection limit (posted on-site).

• Weekly Waste Materials:

TRANSPORTER	TRUCK TYPE	DESTINATION	TSDF	MATERIAL	TRUCK LOADS	AVG / TRUCK	AMOUNT SHIPPED
None							

VII. CONSTRUCTION CHANGE ORDERS

CCO No.	JUSTIFICATION	SCHEDULE IMPACT	COST IMPACT	CHANGE CODE	VALUE	STATUS
01	Working 5 Saturdays	Compress Schedule	\$2,700	1	\$2,700	Pending

Change Code:

(1) Scope Change, (2) Design Error/Omission, (3) Vendor Defect, (4) Vendor Deliveries, (5) Overtime, (6) Weather, (7) Site Conditions

Status:

Pending, Submitted, Approved, Rejected

VIII. DISCUSSION ITEMS

Old Business

- none
- New Business
 - None

IX. EQUIPMENT & MATERIALS

Equipment Delivered	Equipment Removed
Mini excavatorSkid SteerFront end loader	•
Materials Delivered	Materials Removed
"Top soil" backfill soil	420 cubic yards

X. COMMUNICATIONS / COMMUNITY RELATIONS

• None

XI. ADDENDUM(S) TO PREVIOUS MEETING MINUTES

• Not applicable

ATTACHMENTS

- Photo Log
- Perimeter Air Sampling Results Table

Submitted By:	Joe Caryl	And
	Amec Foster Wheeler	
	Principal Construction Manager	

Kurt L. Cunningham, CPG Amec Foster Wheeler Site Lead and SHSO

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 6, 2016 Page 5 of 7



Photo 1: Cleaning the North end of the Hecla Stamp Mill Foundation

Photo 2: South end of Calumet Stamp Mill Cleaned to stockpile backfill



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 6, 2016 Page 6 of 7



Photo 3: Place clean backfill on the southeastern corner of the Calumet Stamp Mill.

Photo 4: Dust control during Calumet Stamp Mill cleaning



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 6, 2016 Page 7 of 7

Photo 5: North end of the Hecla Stamp Mill foundation after cleaning prior to backfill.



Perimeter Ambient Air Sampling Results Week of 11/6/16 Calumet Stamp MIII Torch Lake Township, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
11/7/2016	CSMS-R01-AB01-161107	Sta. 01	<0.00316	10000000 (70)	(TEIN analysion)	0.05	Hoteo
11/7/2016	CSMS-R01-AB02-161107	Sta. 02	<0.00292			0.05	
11/7/2016	CSMS-R01-AB03-161107	Sta. 03	< 0.00525			0.05	
11/7/2016	CSMS-R01-AB04-161107	Sta. 04	<0.00232			0.05	
11/7/2016	CSMS-R01-ABMU-161107	Sta. Museum	< 0.00153			0.05	
11/7/2016	CSMS-R01-ABNP-161107	Sta. North Park	< 0.00193			0.05	
11/7/2016	CSMS-R01-FB01-161107	Field Blank (open)	NA			NA	
11/7/2016	CSMS-R01-FB02-161107	Field Blank (closed)	NA			NA	
11/8/2016	CSMS-R01-AB01-161108	Sta. 01	<0.00535			0.05	
11/8/2016	CSMS-R01-AB02-161108	Sta. 02	<0.00192			0.05	
11/8/2016	CSMS-R01-AB03-161108	Sta. 03	<0.00153			0.05	
11/8/2016	CSMS-R01-AB04-161108	Sta. 04	< 0.00300			0.05	
11/8/2016	CSMS-R01-ABMU-161108		<0.00298			0.05	
11/8/2016	CSMS-R01-ABNP-161108		<0.00239			0.05	
11/8/2016		Field Blank (open)	NA			NA	
11/8/2016	CSMS-R01-FB02-161108	Field Blank (closed)	NA			NA	
11/9/2016	CSMS-R01-AB01-161109	Sta. 01	<0.00773			0.05	
11/9/2016	CSMS-R01-AB02-161109	Sta. 01	<0.00196			0.05	
11/9/2016	CSMS-R01-AB03-161109	Sta. 03	<0.00310			0.05	
11/9/2016	CSMS-R01-AB04-161109	Sta. 03	<0.00256			0.05	
11/9/2016	CSMS-R01-ABMU-161109		<0.00262			0.05	
11/9/2016	CSMS-R01-ABNP-161109		<0.00156			0.05	
11/9/2016	CSMS-R01-FB01-161109	Field Blank (open)	NA			NA	
11/9/2016	CSMS-R01-FB02-161109	Field Blank (closed)	NA			NA	
1102010		r lora Blaint (olooda)			1		
11/10/2016	CSMS-R01-AB01-161110	Sta. 01	0.00305			0.05	
11/10/2016	CSMS-R01-AB02-161110	Sta. 02	0.00227			0.05	
11/10/2016	CSMS-R01-AB03-161110	Sta. 03	0.00192			0.05	
11/10/2016	CSMS-R01-AB04-161110	Sta. 04	0.00177			0.05	
11/10/2016	CSMS-R01-ABMU-161110	Sta. Museum	0.00269			0.05	
11/10/2016	CSMS-R01-ABNP-161110	Sta. North Park	0.0294			0.05	
11/10/2016	CSMS-R01-FB01-161110	Field Blank (open)	NA			NA	
11/10/2016	CSMS-R01-FB02-161110	Field Blank (closed)	NA			NA	
r	1						
11/11/2016	CSMS-R01-AB01-161111	Sta. 01	<0.00355			0.05	
11/11/2016	CSMS-R01-AB02-161111	Sta. 02	<0.00288			0.05	
11/11/2016	CSMS-R01-AB03-161111	Sta. 03	<0.00313			0.05	
11/11/2016	CSMS-R01-AB04-161111	Sta. 04	<0.00552			0.05	
11/11/2016	CSMS-R01-ABMU-161111		<0.00158			0.05	
11/11/2016	CSMS-R01-ABNP-161111		<0.00195			0.05	
11/11/2016	CSMS-R01-FB01-161111	Field Blank (open)	NA			NA	
11/11/2016	CSMS-R01-FB02-161111	Field Blank (closed)	NA			NA	
11/12/2016	CSMS-R01-AB01-161112	Sta. 01	<0.00270			0.05	
11/12/2016	CSMS-R01-AB01-161112 CSMS-R01-AB02-161112	Sta. 01	<0.00270			0.05	
11/12/2016	CSMS-R01-AB02-161112 CSMS-R01-AB03-161112	Sta. 02	<0.00230			0.05	
11/12/2016	CSMS-R01-AB03-161112 CSMS-R01-AB04-161112	Sta. 03	<0.00233			0.05	
11/12/2016	CSMS-R01-AB04-161112 CSMS-R01-ABMU-161112		<0.00183			0.05	
11/12/2016	CSMS-R01-ABND-101112 CSMS-R01-ABNP-161112		<0.00154			0.05	
11/12/2016	CSMS-R01-ABNF-101112 CSMS-R01-FB01-161112	Field Blank (open)	<0.00229 NA			NA	
11/12/2016	CSMS-R01-FB02-161112		NA	<u> </u>		NA	
Notes:					1		

Notes:

f/cc = fibers per cubic centimeter NA = Not analyzed TDL = Target Detection Limit (10% of permissable exposure limit)



HEALTH, SAFETY, ENVIRONMENTAL AND REMEDIATION WEEKLY PROGRESS/HIGHLIGHTS REPORT Honeywell RES Project: Calumet Stamp Mill Site Site No.: AMEC Project Number: 3293161707 Honeywell PO#: 4500195490

Week Beginning November 13, 2016

Calumet Stamp Mill Remediation Lake Linden, Michigan

I. SITE RESOURCES SUMMARY

Team	Sun	Mon	Tue	Wed	Thu	Fri	Sat
AMEC	0	21	32.75	19	20	17.5	0
Terra	0	68.25	79.25	68.25	59.75	45.75	0
WORKDAY MANHOURS	0	89.25	112.00	87.25	79.75	63.25	0.00
TOTAL MANHOURS							431.5

II. LOCAL RESOURCES

Team	Location	Total Weekly Manhours	Total Project Manhours
Bay Electric	Dollar Bay		4
B&B Contracting	Laurium	72.0	125.5

Backfill soil:

Team	Location	Total Weekly Cubic Yards	Total Project Cubic Yards
B&B Contracting	Lake Linden	0	420

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 2 of 10

III. HEALTH & SAFETY

• Highlights

- Completed Daily Safety Tailgates
- Completed weekly checklist no issues noted
- Completed site orientation for new workers.

Inspections and Audits

• N/A

• Incident / Near Miss

Contractor	Date of Incident	Incident / Near Miss
		No incidents during week beginning 9/21/14.

• Infraction Notices

Contractor	Date of Incident	Incident / Near Miss
		No infraction notices during week beginning 9/21/14.

IV. Pending Actions

• Continue to provide site orientation for new workers

V. ADMINISTRATIVE ITEMS

- Updated action task list
 - Backfill the trenches on the Hecla Stamp Mill foundation.
 - Finish excavating the trenches on the Calumet Stamp Mill foundation.
 - Finish Washin the Calumet Stamp Mill foundation.
 - Excavate soil along the eastern edge of the Calumet Stamp Mill foundation out 20 feet and down to 6-inches deep.
 - Backfill the trenches on the Calumet Stamp Mill foundation.
 - Backfill the excavated area along the Calumet Stamp Mill foundation.
 - Seed the backfilled area along the Calumet Stamp Mill foundation.
 - Remove pitch mastic from the edges of tank foundations on the Calumet Stamp Mill foundation.
 - Haul asbestos impacted debris and soil off-site to K&W Landfill in Ontonagon, Michigan.

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 3 of 10

- Submittals –
- Contract Items No issues this period
- Revised Baseline Schedule Not applicable.

VI. SCHEDULE / SITE ACTIVITY REVIEW

• Three-Week Schedule

- Backfill trenches on the northern end of the Hecla Stamp Mill foundation.
- Finalize excavation of trenches and clean foundations.
- Excavate Last bit of soil from edge of Calumet Stamp Mill foundation.
- Transport and dispose last load of asbestos containing debris and soil.
- Backfill trenches and area along the Calumet Stamp Mill foundation.
- Seed the backfill soil along the eastern edge of the Calumet Stamp Mill foundation.

Work Accomplished

- Hecla Stamp Mill foundation trench excavation and cleaning complete per EPA.
- Excavating trenches on the Calumet Stamp Mill foundation.
- Began cleaning the Calumet Stamp Mill foundation.
- Loaded, transported and disposed 669.77 tons of presumed asbestos impacted soil and presumed asbestos containing material picked up in Phase I.
- Lined truck beds with plastic sheeting prior to filling with material and sealed the plastic sheeting after filling the beds for transportation.
- Completed personal air monitoring: all samples below detection limit (posted on-site).
- Completed perimeter air monitoring: all samples analyzed are below detection limits (posted on-site).
- Received analytical results from samples of the backfill soil: no problems O.K. to use.
- Decontaminate out B&B Contracting's skid steer, mini excavator, and front end loader.
- Decontaminate out the rental pneumatic tire skid steer.
- Walk the Site with the EPA and Honeywell representatives to determine remaining work on and around the Calumet Stamp Mill foundation.
- Conducted weekly Health and Safety checklist.
- Observed trench excavation, foundation cleaning, soil stockpiling and loadout and transportation of material to the landfill.
- Tracked loads of material from the site to K&W Landfill: Manifests and load tickets returned.

• Laboratory Results

• Perimeter air sample analysis provided as below detection limit (posted on-site).

• Weekly Waste Materials:

TRANSPORTER	TRUCK TYPE	DESTINATION	TSDF	MATERIAL	TRUCK LOADS	AVG / TRUCK	AMOUNT SHIPPED
B&B Contracting	Train	Ontonagon, MI	K&W Landfill	Soil with asbestos	13	51.52 tons	669.77 tons

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 4 of 10

VII. CONSTRUCTION CHANGE ORDERS

CCO No.	JUSTIFICATION	SCHEDULE IMPACT	COST IMPACT	CHANGE CODE	VALUE	STATUS
01	Working 5 Saturdays	Compress Schedule	\$2,700	1	\$2,700	Pending

Change Code:

(1) Scope Change, (2) Design Error/Omission, (3) Vendor Defect, (4) Vendor Deliveries, (5) Overtime, (6) Weather, (7) Site Conditions

Status:

Pending, Submitted, Approved, Rejected

VIII. DISCUSSION ITEMS

Old Business

• none

New Business

None

IX. EQUIPMENT & MATERIALS

Equipment Delivered	Equipment Removed		
Front end loader	•		
Materials Delivered	Materials Removed		
•	•		

X. COMMUNICATIONS / COMMUNITY RELATIONS

None

XI. ADDENDUM(S) TO PREVIOUS MEETING MINUTES

Not applicable

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 5 of 10

ATTACHMENTS

- Photo Log
- Perimeter Air Sampling Results Table

Submitted By: Joe Caryl And Amec Foster Wheeler Principal Construction Manager Kurt L. Cunningham, CPG Amec Foster Wheeler Site Lead and SHSO

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 6 of 10



Photo 1: Loading plastic sheeting lined trucks with possible asbestos containing material

Photo 2: Sealing the material within truck beds after filling



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 7 of 10



Photo 3: Excavating 6-inches of soil from the eastern edge of the Calumet Stamp Mill.

Photo 4: Excavation of the eastern edge of the Calumet Stamp Mill nearly complete



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 8 of 10



Photo 5: Washing the northern portion of the Calumet Stamp Mill foundation.

Photo 6: Inspecting the northern portion of the Calumet Stamp Mill foundation with START



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 9 of 10

Photo 7: Decontaminating B&B Contracting's skid steer



Photo 8: Decontaminated equipment awaiting pickup.



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 13, 2016 Page 10 of 10



Photo 9: Apparent Ball Crusher balls removed from a trench; washed and saved

Perimeter Ambient Air Sampling Results Week of 11/13/16 Calumet Stamp MIII Torch Lake Township, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
11/14/2016	CSMS-R01-AB01-161114	Sta. 01		Aspesios (76)		0.05	Notes
11/14/2016	CSMS-R01-AB02-161114	Sta. 02	<0.00187			0.05	
11/14/2016	CSMS-R01-AB03-161114	Sta. 03	<0.00200			0.05	
11/14/2016	CSMS-R01-AB04-161114	Sta. 04	<0.00241			0.05	
11/14/2016	CSMS-R01-ABMU-161114		<0.00158			0.05	
11/14/2016	CSMS-R01-ABNP-161114		<0.00260			0.05	
11/14/2016		Field Blank (open)	NA			NA	
11/14/2016		Field Blank (closed)	NA			NA	
11/11/2010					1	10.0	
11/15/2016	CSMS-R01-AB01-161115	Sta. 01	<0.00130			0.05	
11/15/2016	CSMS-R01-AB02-161115	Sta. 02	< 0.00222			0.05	
11/15/2016	CSMS-R01-AB03-161115	Sta. 03	< 0.00209			0.05	
11/15/2016	CSMS-R01-AB04-161115	Sta. 04	< 0.00199			0.05	
11/15/2016	CSMS-R01-ABMU-161115	Sta. Museum	< 0.00223			0.05	
11/15/2016	CSMS-R01-ABNP-161115	Sta. North Park	< 0.00155			0.05	
11/15/2016		Field Blank (open)	NA			NA	
11/15/2016	CSMS-R01-FB02-161115	Field Blank (closed)	NA			NA	
11/16/2016	CSMS-R01-AB01-161116	Sta. 01	<0.00185			0.05	
11/16/2016	CSMS-R01-AB02-161116	Sta. 02	<0.00158			0.05	
11/16/2016	CSMS-R01-AB03-161116	Sta. 03	<0.00238			0.05	
11/16/2016	CSMS-R01-AB04-161116	Sta. 04	<0.00238			0.05	
11/16/2016	CSMS-R01-ABMU-161116	Sta. Museum	<0.00285			0.05	
11/16/2016	CSMS-R01-ABNP-161116	Sta. North Park	<0.00291			0.05	
11/16/2016	CSMS-R01-FB01-161116	Field Blank (open)	NA			NA	
11/16/2016	CSMS-R01-FB02-161116	Field Blank (closed)	NA			NA	
	•	•					
11/17/2016	CSMS-R01-AB01-161117	Sta. 01	<0.00280			0.05	
11/17/2016	CSMS-R01-AB02-161117	Sta. 02	<0.00283			0.05	
11/17/2016	CSMS-R01-AB03-161117	Sta. 03	<0.00240			0.05	
11/17/2016	CSMS-R01-AB04-161117	Sta. 04	<0.00258			0.05	
11/17/2016	CSMS-R01-ABMU-161117		<0.00164			0.05	
11/17/2016	CSMS-R01-ABNP-161117	Sta. North Park	0.00217			0.05	
11/17/2016		Field Blank (open)	NA			NA	
11/17/2016	CSMS-R01-FB02-161117	Field Blank (closed)	NA			NA	
	•						
11/18/2016	CSMS-R01-AB01-161118	Sta. 01	<0.00620			0.05	
11/18/2016	CSMS-R01-AB02-161118	Sta. 02	<0.00623			0.05	
11/18/2016	CSMS-R01-AB03-161118	Sta. 03	<0.00626			0.05	
11/18/2016	CSMS-R01-AB04-161118	Sta. 04	<0.00630			0.05	
11/18/2016	CSMS-R01-ABMU-161118		<0.00630			0.05	
11/18/2016	CSMS-R01-ABNP-161118		<0.00626			0.05	
11/18/2016		Field Blank (open)	NA			NA	
11/18/2016	CSMS-R01-FB02-161118	Field Blank (closed)	NA			NA	
44/40/2212	0010 001 1001 101	01 01	N 0 .		, , , , , , , , , , , , , , , , , , , ,		
		Sta. 01	No Samples				
11/19/2016	CSMS-R01-AB02-161119	Sta. 02	Did not Work				
11/19/2016	CSMS-R01-AB03-161119	Sta. 03					
11/19/2016	CSMS-R01-AB04-161119	Sta. 04					
11/19/2016	CSMS-R01-ABMU-161119						
11/19/2016	CSMS-R01-ABNP-161119						
11/19/2016		Field Blank (open)					
11/19/2016 Notes:	CSMS-R01-FB02-161119	Field Blank (closed)					
INDIES'							

Notes:

f/cc = fibers per cubic centimeter NA = Not analyzed

TDL = Target Detection Limit (10% of permissable exposure limit)



HEALTH, SAFETY, ENVIRONMENTAL AND REMEDIATION WEEKLY PROGRESS/HIGHLIGHTS REPORT Honeywell RES Project: Calumet Stamp Mill Site Site No.: AMEC Project Number: 3293161707 Honeywell PO#: 4500195490

Week Beginning November 20, 2016

Calumet Stamp Mill Remediation Lake Linden, Michigan

I. SITE RESOURCES SUMMARY

Team	Sun	Mon	Tue	Wed	Thu	Fri	Sat
AMEC	0	20	19.5	0	0	0	0
Terra	0	51.25	51.25	0	0	0	0
WORKDAY MANHOURS	0	71.25	70.75	0.00	0.00	0.00	0.00
TOTAL MANHOURS							431.5

II. LOCAL RESOURCES

Team	Location	Total Weekly Manhours	Total Project Manhours
Bay Electric	Dollar Bay		4
B&B Contracting	Laurium		125.5

Backfill soil:

Team	Location	Total Weekly Cubic Yards	Total Project Cubic Yards
B&B Contracting	Lake Linden	0	420

III. HEALTH & SAFETY

• Highlights

- Completed Daily Safety Tailgates
- Completed weekly checklist no issues observed

Inspections and Audits

• N/A

• Incident / Near Miss

Contractor	Date of Incident	Incident / Near Miss
		No incidents during week beginning 11/20/16.

• Infraction Notices

Contractor	Date of Incident	Incident / Near Miss
		No infraction notices during week beginning 11/20/16.

IV. Pending Actions

• Continue to provide site orientation for new workers

V. ADMINISTRATIVE ITEMS

- Updated action task list -
 - Backfill the trenches on the Hecla Stamp Mill foundation.
 - Finish excavating the trenches on the Calumet Stamp Mill foundation.
 - Finish Washing the Calumet Stamp Mill foundation.
 - Finish the excavation of soil along the eastern edge of the Calumet Stamp Mill foundation.
 - Backfill the trenches on the Calumet Stamp Mill foundation.
 - Backfill the excavated area along the Calumet Stamp Mill foundation.
 - Seed the backfilled area along the Calumet Stamp Mill foundation.
 - Remove pitch mastic from the edges of tank foundations on the Calumet Stamp Mill foundation.
 - Haul asbestos impacted debris and soil off-site to K&W Landfill in Ontonagon, Michigan.

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 20, 2016 Page 3 of 7

- **Submittals** None this period
- Contract Items No issues this period
- Revised Baseline Schedule Not applicable.

VI. SCHEDULE / SITE ACTIVITY REVIEW

• Three-Week Schedule

- Backfill trenches on the northern end of the Hecla Stamp Mill foundation.
- Finalize excavation of trenches and clean foundations.
- Excavate Last bit of soil from edge of Calumet Stamp Mill foundation.
- Transport and dispose last load of asbestos containing debris and soil.
- Backfill trenches and area along the Calumet Stamp Mill foundation.
- Seed the backfill soil along the eastern edge of the Calumet Stamp Mill foundation.

Work Accomplished

- Excavated trenches on the Calumet Stamp Mill foundation.
- Continue cleaning the Calumet Stamp Mill foundation.
- Completed personal air monitoring: all samples below detection limit (posted on-site).
- Completed perimeter air monitoring: all samples analyzed are below detection limits (posted on-site).
- B&B Contracting's skid steer and mini excavator removed from the site.
- Terra rented mini excavator removed from the site.
- Conducted weekly Health and Safety checklist.
- Observed trench excavation and foundation cleaning.

• Laboratory Results

• Perimeter air sample analysis provided as below detection limit (posted on-site).

• Weekly Waste Materials:

TRANSPORTER	TRUCK TYPE	DESTINATION	TSDF	MATERIAL	TRUCK LOADS	AVG / TRUCK	AMOUNT SHIPPED

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 20, 2016 Page 4 of 7

VII. CONSTRUCTION CHANGE ORDERS

CCO No.	JUSTIFICATION	SCHEDULE IMPACT	COST IMPACT	CHANGE CODE	VALUE	STATUS
01	Working 5 Saturdays	Compress Schedule	\$2,700	1	\$2,700	Pending

Change Code:

Status:

(1) Scope Change, (2) Design Error/Omission, (3) Vendor Defect, (4) Vendor Deliveries, (5) Overtime, (6) Weather, (7) Site Conditions Pending, Submitted, Approved, Rejected

VIII. DISCUSSION ITEMS

Old Business

• none

New Business

None

IX. EQUIPMENT & MATERIALS

Equipment Delivered	Equipment Removed
•	 Mini excavator, B&B Contracting Skid steer, B&B Contracting Mini excavator, Terra Contracting
Materials Delivered	Materials Removed
•	•

X. COMMUNICATIONS / COMMUNITY RELATIONS

• None

XI. ADDENDUM(S) TO PREVIOUS MEETING MINUTES

Not applicable

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 20, 2016 Page 5 of 7

ATTACHMENTS

- Photo Log
- Perimeter Air Sampling Results Table

Submitted By: Joe Caryl And Amec Foster Wheeler Principal Construction Manager Kurt L. Cunningham, CPG Amec Foster Wheeler Site Lead and SHSO

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 20, 2016 Page 6 of 7



Photo 1: Cleaning the Calumet Stamp Mill trenches and foundation

Photo 2: Decontamination of the rental mini excavator to be taken off-site



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 20, 2016 Page 7 of 7



Photo 3: Calumet Stamp Mill foundation prior to the Holiday week end.

Photo 4: Protect the impacted soil pile for the Holiday week end



Perimeter Ambient Air Sampling Results Week of 11/20/16 Calumet Stamp MIII Torch Lake Township, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
11/21/2016	CSMS-R01-AB01-161121	Sta. 01	<0.00254			0.05	
11/21/2016	CSMS-R01-AB02-161121	Sta. 02	<0.00281			0.05	
11/21/2016	CSMS-R01-AB03-161121	Sta. 03	<0.00216			0.05	
11/21/2016	CSMS-R01-AB04-161121	Sta. 04	<0.00217			0.05	
11/21/2016	CSMS-R01-ABMU-161121	Sta. Museum	<0.00183			0.05	
11/21/2016	CSMS-R01-ABNP-161121	Sta. North Park	0.00150			0.05	
11/21/2016	CSMS-R01-FB01-161121	Field Blank (open)	NA			NA	
11/21/2016	CSMS-R01-FB02-161121	Field Blank (closed)	NA			NA	
11/00/0010	COMO DO4 AD04 404400	Cta 01	-0.00201		г – – – г	0.05	,,
11/22/2016	CSMS-R01-AB01-161122	Sta. 01	<0.00301 <0.00279			0.05	
	CSMS-R01-AB02-161122	Sta. 02	<0.00279			0.05	
11/22/2016 11/22/2016	CSMS-R01-AB03-161122 CSMS-R01-AB04-161122	Sta. 03	<0.00230			0.05	
11/22/2016	CSMS-R01-AB04-161122 CSMS-R01-ABMU-161122	Sta. 04	<0.00182			0.05	
11/22/2016	CSMS-R01-ABND-161122 CSMS-R01-ABNP-161122		<0.00183			0.05	
11/22/2016		Field Blank (open)	<0.00235 NA				
11/22/2016	CSMS-R01-FB02-161122	Field Blank (closed)	NA			NA NA	
1.122/2010		r loid Blaint (clobod)			1		
11/23/2016	CSMS-R01-AB01-161123	Sta. 01	No Samples			0.05	
	CSMS-R01-AB02-161123	Sta. 02	Did not Work			0.05	
11/23/2016	CSMS-R01-AB03-161123	Sta. 03	Thanksgiving			0.05	
11/23/2016	CSMS-R01-AB04-161123	Sta. 04	Holiday			0.05	
11/23/2016	CSMS-R01-ABMU-161123	Sta. Museum				0.05	
11/23/2016	CSMS-R01-ABNP-161123	Sta. North Park				0.05	
11/23/2016	CSMS-R01-FB01-161116					NA	
11/23/2016	CSMS-R01-FB02-161123	Field Blank (closed)				NA	
					1		
11/24/2016	CSMS-R01-AB01-161124	Sta. 01	No Samples			0.05	
	CSMS-R01-AB02-161124		Did not Work			0.05	
11/24/2016	CSMS-R01-AB03-161124	Sta. 03	Thanksgiving			0.05	
11/24/2016	CSMS-R01-AB04-161124	Sta. 04	Holiday			0.05	
11/24/2016	CSMS-R01-ABMU-161124					0.05	
11/24/2016	CSMS-R01-ABNP-161124					0.05	
11/24/2016	CSMS-R01-FB01-161124					NA	
11/24/2016	CSMS-R01-FB02-161124	Field Blank (closed)				NA	
11/25/2016	CSMS-R01-AB01-161125	Sta. 01	No Samples			0.05	
	CSMS-R01-AB02-161125	Sta. 02	Did not Work			0.05	
11/25/2016	CSMS-R01-AB03-161125	Sta. 03	Thanksgiving			0.05	
11/25/2016	CSMS-R01-AB04-161125	Sta. 04	Holiday			0.05	
11/25/2016	CSMS-R01-ABMU-161125					0.05	
11/25/2016	CSMS-R01-ABNP-161125					0.05	
11/25/2016		Field Blank (open)				NA	
11/25/2016		Field Blank (closed)				NA	
11/26/2016	CSMS-R01-AB01-161126	Sta. 01	No Samples			0.05	
	CSMS-R01-AB02-161126	Sta. 02	Did not Work			0.05	
11/26/2016	CSMS-R01-AB03-161126	Sta. 03	Thanksgiving			0.05	
11/26/2016	CSMS-R01-AB04-161126	Sta. 04	Holiday			0.05	
11/26/2016	CSMS-R01-ABMU-161126					0.05	
11/26/2016	CSMS-R01-ABNP-161126					0.05	
		Field Blank (open)				NA	
11/26/2016 Notes:	CSMS-R01-FB02-161126	Field Blank (closed)				NA	
	aar aubia aantimatar						

f/cc = fibers per cubic centimeter NA = Not analyzed TDL = Target Detection Limit (10% of permissable exposure limit)



HEALTH, SAFETY, ENVIRONMENTAL AND REMEDIATION WEEKLY PROGRESS/HIGHLIGHTS REPORT Honeywell RES Project: Calumet Stamp Mill Site Site No.: AMEC Project Number: 3293161707 Honeywell PO#: 4500195490

Week Beginning November 27, 2016

Calumet Stamp Mill Remediation Lake Linden, Michigan

I. SITE RESOURCES SUMMARY

Team	Sun	Mon	Tue	Wed	Thu	Fri	Sat
AMEC	0	10	10	21	20	20	10
Terra	0	43.75	53	58.25	49	42.5	34
WORKDAY MANHOURS	0	53.75	63.00	79.25	69.00	62.50	44.00
TOTAL MANHOURS							371.5

II. LOCAL RESOURCES

Team	Location	Total Weekly Manhours	Total Project Manhours
Bay Electric	Dollar Bay		4
B&B Contracting	Laurium	26.5	152.0

Backfill soil:

Team	Location	Total Weekly Cubic Yards	Total Project Cubic Yards
B&B Contracting	Lake Linden	0	420

III. HEALTH & SAFETY

• Highlights

- Completed Daily Safety Tailgates
- Completed weekly checklist no issues noted

Inspections and Audits

• N/A

• Incident / Near Miss

Contractor	Date of Incident	Incident / Near Miss
		No incidents during week beginning 11/27/16.

Infraction Notices

Contractor	Date of Incident	Incident / Near Miss
		No infraction notices during week beginning 11/27/16.

IV. Pending Actions

• Continue to provide site orientation for new workers

V. ADMINISTRATIVE ITEMS

• Updated action task list -

- Finish backfilling the trenches on the Calumet Stamp Mill foundation. This will occur in the spring when the backfill soil and site dry out.
- Backfill the excavated area along the Calumet Stamp Mill foundation. This will occur in the spring when the backfill soil and site dry out.
- Seed the backfilled area along the Calumet Stamp Mill foundation. This will occur in the spring when the backfill soil and site dry out.
- Remove pitch mastic from the edges of tank foundations on the Calumet Stamp Mill foundation.
- Put up steel plates in openings of the flotation tank foundations.

- **Submittals –** None this period.
- Contract Items No issues this period
- **Revised Baseline Schedule** Backfilling and seeding has been postponed till spring when the site and backfill material dry out.

VI. SCHEDULE / SITE ACTIVITY REVIEW

• Three-Week Schedule

- Complete pitch mastic removal from the flotation tank foundations.
- Backfill trenches on the Calumet Stamp Mill foundation; Postponed till spring.
- Seed the backfill soil along the eastern edge of the Calumet Stamp Mill foundation.
- Remove and dispose the last load of impacted material from the site.

• Work Accomplished

- Backfilled the trenches on the Hecla Stamp Mill foundation.
- Finished excavating the trenches on the Calumet Stamp Mill foundation.
- Finished Washing the Calumet Stamp Mill foundation.
- Excavated soil along the eastern edge of the Calumet Stamp Mill foundation.
- Began backfilling the Calumet Stamp Mill foundation trenches.
- Walked the Calumet Stamp Mill foundation with the START contractor representative and observed the foundation, trenches and eastern excavation for washing/cleaning completeness; concurred that excavation and washing/cleaning have been completed.
- Loaded, transported, and disposed the last loads of asbestos impacted soil: 70.08 tons.
- Began removal of mastic from the flotation tank foundations.
- Completed personal air monitoring during pitch mastic removal.
- Removed "Asbestos" signage from the perimeter fence.
- Moved the exclusion zone to area immediately around the flotation tank foundations.
- Completed perimeter air monitoring: all samples analyzed are below detection limits (posted on-site).
- Conducted weekly Health and Safety checklist.
- Observed trench excavation, foundation cleaning, soil stockpiling and loadout and transportation of last bit of asbestos impacted soil to the landfill.
- Tracked loads of material from the site and manifests returned.
- Completed loading and transporting impacted soil to the landfill.

• Laboratory Results

• Perimeter air sample analysis provided as below detection limit (posted on-site).

TRUCK AVG / TRUCK AMOUNT TRANSPORTER DESTINATION MATERIAL TSDF SHIPPED TYPE LOADS TRUCK Soil with 35.04 **B&B** Contracting Train Ontonagon, MI K&W Landfill 2 70.08 tons asbestos tons

• Weekly Waste Materials:

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 27, 2016 Page 4 of 10

VII. CONSTRUCTION CHANGE ORDERS

CCO No.	JUSTIFICATION	SCHEDULE IMPACT	COST IMPACT	CHANGE CODE	VALUE	STATUS
01	Working 5 Saturdays	Compress Schedule	\$2,700	1	\$2,700	Pending

Change Code:

Status:

(1) Scope Change, (2) Design Error/Omission, (3) Vendor Defect, (4) Vendor Deliveries, (5) Overtime, (6) Weather, (7) Site Conditions Pending, Submitted, Approved, Rejected

VIII. DISCUSSION ITEMS

Old Business

• none

New Business

None

IX. EQUIPMENT & MATERIALS

Equipment Delivered Equipment Removed			
•	Bulldozer, B&B Contracting		
Materials Delivered	Materials Removed		
•	70.08 tons of asbestos impacted soil.		

X. COMMUNICATIONS / COMMUNITY RELATIONS

None

XI. ADDENDUM(S) TO PREVIOUS MEETING MINUTES

Not applicable

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 27, 2016 Page 5 of 10

ATTACHMENTS

- Photo Log
- Perimeter Air Sampling Results Table

Submitted By: Joe Caryl And Amec Foster Wheeler Principal Construction Manager Kurt L. Cunningham, CPG Amec Foster Wheeler Site Lead and SHSO

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 27, 2016 Page 6 of 10



Photo 1: Backfilling holes and trenches on the Hecla Stamp Mill foundation

Photo 2: Hecla Stamp Mill foundation completed



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 27, 2016 Page 7 of 10



Photo 3: Trenches and surface clean on the Calumet Stamp Mill foundation: Backfilling.

Photo 4: Demarcation layer in the deep trench



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 27, 2016 Page 8 of 10



Photo 5: Stopped backfilling due to wet site conditions.

Photo 6: Excavation of eastern edge of Calumet Stamp Mill foundation complete



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 27, 2016 Page 9 of 10



Photo 7: Loading the final truck for landfill disposal of asbestos impacted soil.

Photo 8: Area where asbestos impacted soil had been stockpiled.



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: November 27, 2016 Page 10 of 10



Photo 9: Begin removing pitch mastic from flotation tank foundations.

Photo 10: Pneumatic micro-chisel gun used to remove pitch mastic.



Perimeter Ambient Air Sampling Results Week of 11/27/16 Calumet Stamp MIII Torch Lake Township, MI

							r
				F	Asbestos	Action	
D. (O	0	Fiber Concentration	Fraction	Concentration (f/cc)	Limit	Nata
Date 11/28/2016	Sample ID	Sample Location	(f/cc) (PCM Analysis) <0.00290	Asbestos (%)	(TEM analysisi)	(f/cc) 0.05	Notes
11/28/2016	CSMS-R01-AB01-161128 CSMS-R01-AB02-161128	Sta. 01 Sta. 02	<0.00290			0.05	
11/28/2016	CSMS-R01-AB02-161128 CSMS-R01-AB03-161128	Sta. 02	<0.00296			0.05	
11/28/2016	CSMS-R01-AB03-161128 CSMS-R01-AB04-161128	Sta. 03	<0.00165			0.05	
11/28/2016	CSMS-R01-ABMU-161128		<0.00234			0.05	
11/28/2016			<0.00243			0.05	
11/28/2016		Field Blank (open)	NA			NA	
11/28/2016		Field Blank (closed)	NA			NA	
11/20/2010			INA			IN/A	
11/29/2016	CSMS-R01-AB01-161129	Sta. 01	<0.00274			0.05	
11/29/2016	CSMS-R01-AB02-161129	Sta. 02	<0.00288			0.05	
11/29/2016	CSMS-R01-AB03-161129	Sta. 03	< 0.00163			0.05	
11/29/2016	CSMS-R01-AB04-161129	Sta. 04	< 0.00195			0.05	
11/29/2016	CSMS-R01-ABMU-161129		<0.00238			0.05	
11/29/2016	CSMS-R01-ABNP-161129	Sta. North Park	< 0.00239			0.05	
11/29/2016	CSMS-R01-FB01-161129	Field Blank (open)	NA			NA	
11/29/2016		Field Blank (closed)	NA			NA	
							2
11/30/2016	CSMS-R01-AB01-161130	Sta. 01	< 0.00249			0.05	
11/30/2016	CSMS-R01-AB02-161130	Sta. 02	<0.00248			0.05	
11/30/2016	CSMS-R01-AB03-161130	Sta. 03	<0.00211			0.05	
11/30/2016	CSMS-R01-AB04-161130	Sta. 04	<0.00207			0.05	
11/30/2016	CSMS-R01-ABMU-161130		<0.00145			0.05	
11/30/2016	CSMS-R01-ABNP-161130	Sta. North Park	<0.00170			0.05	
11/30/2016		Field Blank (open)	NA			NA	
11/30/2016	CSMS-R01-FB02-161130	Field Blank (closed)	NA			NA	
		-					
12/1/2016		Sta. 01	<0.00272			0.05	
12/1/2016	CSMS-R01-AB02-161201	Sta. 02	<0.00149			0.05	
12/1/2016	CSMS-R01-AB03-161201	Sta. 03	<0.00212			0.05	
12/1/2016	CSMS-R01-AB04-161201	Sta. 04	<0.00212			0.05	
12/1/2016	CSMS-R01-ABMU-161201	Sta. Museum	<0.00273			0.05	
12/1/2016	CSMS-R01-ABNP-161201	Sta. North Park	<0.00177			0.05	
12/1/2016	CSMS-R01-FB01-161201	Field Blank (open)	NA			NA	
12/1/2016	CSMS-R01-FB02-161201	Field Blank (closed)	NA			NA	
10/0/0040	00140 001 4001 401000	01- 04	0.00450			0.05	
12/2/2016	CSMS-R01-AB01-161202	Sta. 01	<0.00150			0.05	
12/2/2016 12/2/2016	CSMS-R01-AB02-161202	Sta. 02	<0.00280 <0.00225			0.05	
12/2/2016	CSMS-R01-AB03-161202 CSMS-R01-AB04-161202	Sta. 03 Sta. 04	<0.00225			0.05	
12/2/2016	CSMS-R01-AB04-161202		<0.00215			0.05	
12/2/2016	CSMS-R01-ABNP-161202		<0.00183			0.05	
12/2/2016		Field Blank (open)	<0.00272 NA			0.05 NA	<u> </u>
12/2/2016		Field Blank (closed)	NA			NA	
12/2/2010	C3W3-R01-FB02-101202	Field Dialik (Closed)	NA			INA	l
12/3/2016	CSMS-R01-AB01-161203	Sta. 01	<0.00181			0.05	
12/3/2016	CSMS-R01-AB02-161203	Sta. 02	<0.00151			0.05	<u> </u>
12/3/2016	CSMS-R01-AB03-161203	Sta. 02	<0.00101			0.05	<u> </u>
12/3/2016	CSMS-R01-AB04-161203	Sta. 03	<0.00255			0.05	
12/3/2016	CSMS-R01-ABMU-161203	Sta. Museum	<0.00233			0.05	
12/3/2016	CSMS-R01-ABNP-161203		<0.00216			0.05	<u> </u>
12/3/2016		Field Blank (open)	NA			NA	
12/3/2016		Field Blank (closed)	NA			NA	<u> </u>
Notes:		(*)			1		

Notes:

f/cc = fibers per cubic centimeter NA = Not analyzed

TDL = Target Detection Limit (10% of permissable exposure limit)



HEALTH, SAFETY, ENVIRONMENTAL AND REMEDIATION WEEKLY PROGRESS/HIGHLIGHTS REPORT Honeywell RES Project: Calumet Stamp Mill Site Site No.: AMEC Project Number: 3293161707 Honeywell PO#: 4500195490

Week Beginning December 4, 2016

Calumet Stamp Mill Remediation Lake Linden, Michigan

I. SITE RESOURCES SUMMARY

Team	Sun	Mon	Tue	Wed	Thu	Fri	Sat
AMEC	0	10	10.5	9.5	10	4.25	0
Terra	0	34.75	47	35	32	12	0
WORKDAY MANHOURS	0	44.75	57.50	44.50	42.00	16.25	0.00
TOTAL MANHOURS							205

II. LOCAL RESOURCES

Team	Location	Total Weekly Manhours	Total Project Manhours
Bay Electric	Dollar Bay		4
B&B Contracting	Laurium	13	165.0

Backfill soil:

Team	Location	Total Weekly Cubic Yards	Total Project Cubic Yards
B&B Contracting	Lake Linden	0	420

III. HEALTH & SAFETY

• Highlights

- Completed Daily Safety Tailgates
- Completed weekly checklist no issues noted

• Inspections and Audits

• N/A

• Incident / Near Miss

Contractor	Date of Incident	Incident / Near Miss
		No incidents during week beginning 11/27/16.

Infraction Notices

Contractor	Date of Incident	Incident / Near Miss	
		No infraction notices during week beginning 11/27/16.	

IV. Pending Actions

• Continue to provide site orientation for new workers

V. ADMINISTRATIVE ITEMS

• Updated action task list -

- Finish backfilling the trenches on the Calumet Stamp Mill foundation. This will occur in the spring when the backfill soil and site dry out.
- Backfill the excavated area along the Calumet Stamp Mill foundation. This will occur in the spring when the backfill soil and site dry out.
- Seed the backfilled area along the Calumet Stamp Mill foundation. This will occur in the spring when the backfill soil and site dry out.
- Remove pitch mastic from the edges of tank foundations on the Calumet Stamp Mill foundation.

- **Submittals –** None this period.
- **Contract Items** No issues this period
- **Revised Baseline Schedule** Backfilling, seeding, and pitch mastic removal has been postponed till spring when the site and backfill material dry out.

VI. SCHEDULE / SITE ACTIVITY REVIEW

• Three-Week Schedule (Spring of 2017)

- Complete pitch mastic removal from the flotation tank foundations.
- Backfill trenches on the Calumet Stamp Mill foundation; Postponed till spring.
- Seed the backfill soil along the eastern edge of the Calumet Stamp Mill foundation.
- Remove and dispose the last load of impacted material from the site.

• Work Accomplished

- Continued removal of mastic from the flotation tank foundations.
- Completed personal air monitoring during pitch mastic removal.
- Completed perimeter air monitoring: all samples analyzed are below detection limits (posted on-site).
- Conducted weekly Health and Safety checklist.
- Observed mastic removal and loadout and transportation of last bit of asbestos impacted mastic to the landfill.
- Tracked load of material from the site.
- Completed loading and transporting pitch mastic debris to the landfill; 1.35 tons disposed.
- Completed securing the site for the winter; metal No Trespassing signs placed, fence checked and all gates wired closed.
- Demobilized from the site: All supplies and equipment removed.

• Laboratory Results

• Perimeter air sample analysis provided as below detection limit (posted on-site).

• Weekly Waste Materials:

TRANSPORTER	TRUCK TYPE	DESTINATION	TSDF	MATERIAL	TRUCK LOADS	AVG / TRUCK	AMOUNT SHIPPED
Waste Management	Rolloff	Ontonagon, MI	K&W Landfill	Pitch mastic and plastic	1	1.35 Tons	1.35 Tons

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: December 4, 2016 Page 4 of 11

VII. CONSTRUCTION CHANGE ORDERS

CCO No.	JUSTIFICATION	SCHEDULE IMPACT	COST IMPACT	CHANGE CODE	VALUE	STATUS
01	Working 5 Saturdays	Compress Schedule	\$2,700	1	\$2,700	Pending

Change Code:

Status:

(1) Scope Change, (2) Design Error/Omission, (3) Vendor Defect, (4) Vendor Deliveries, (5) Overtime, (6) Weather, (7) Site Conditions Pending, Submitted, Approved, Rejected

VIII. DISCUSSION ITEMS

Old Business

• none

New Business

None

IX. EQUIPMENT & MATERIALS

Equipment Delivered	Equipment Removed
•	Decontamination trailer (Terra)
Materials Delivered	Materials Removed
1.35 tons of asbestos impacted media.	

X. COMMUNICATIONS / COMMUNITY RELATIONS

None

XI. ADDENDUM(S) TO PREVIOUS MEETING MINUTES

Not applicable

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: December 4, 2016 Page 5 of 11

ATTACHMENTS

- Photo Log
- Perimeter Air Sampling Results Table

Submitted By: Joe Caryl And Amec Foster Wheeler Principal Construction Manager Kurt L. Cunningham, CPG Amec Foster Wheeler Site Lead and SHSO

Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: December 4, 2016 Page 6 of 11



Photo 1: Preparing to remove pitch mastic from floatation tank foundation

Photo 2: Pitch mastic removal in the snow



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: December 4, 2016 Page 7 of 11



Photo 3: Equipment setup for pitch mastic removal.





Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: December 4, 2016 Page 8 of 11



Photo 5: Steel plate installation in floatation tank foundation openings.

Photo 6: Typical steel plate installation in the floatation tank foundation openings



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: December 4, 2016 Page 9 of 11



Photo 7: Last day of mastic removal: Weather causing significant delays.

Photo 8: 8x20' Steel plates placed over tunnel area for HCHMS.



Weekly Progress/Highlights Report Calumet Stamp Mill Site Lake Linden, Michigan Week Beginning: December 4, 2016 Page 10 of 11



Photo 9: Site secure for the winter with metal signage: facing south.

Photo 10: Site secure for the winter: Facing north.





Photo 11: Site secure for the winter: Facing east.

Photo 12: Site secure for the winter: Facing west



Perimeter Ambient Air Sampling Results Week of 12/4/16 Calumet Stamp MIII Torch Lake Township, MI

					Asbestos	Action	
			Fiber Concentration	Fraction	Concentration (f/cc)	Limit	
Date	Sample ID	Sample Location	(f/cc) (PCM Analysis)	Asbestos (%)	(TEM analysisi)	(f/cc)	Notes
12/5/2016		Sta. 01	<0.00192	Asbestos (76)	(ILIW allalysisi)	0.05	Notes
12/5/2016	CSMS-R01-AB02-161205		<0.00152			0.05	
12/5/2016		Sta. 03	<0.00275			0.05	
12/5/2016	CSMS-R01-AB04-161205		<0.00278			0.05	
12/5/2016	CSMS-R01-ABMU-161205	Sta Museum	<0.00225			0.05	
12/5/2016	CSMS-R01-ABNP-161205	Sta North Park	<0.00220			0.05	
12/5/2016		Field Blank (open)	NA			NA	
12/5/2016		Field Blank (closed)	NA			NA	
12/3/2010	C3103-R01-FB02-101205	Field Bialik (closed)	INA			NA NA	
12/6/2016	CSMS-R01-AB01-161206	Sta. 01	<0.00217			0.05	
12/6/2016		Sta. 02	<0.00209			0.05	
12/6/2016	CSMS-R01-AB03-161206		<0.00203			0.05	
12/6/2016		Sta. 04	<0.00145			0.05	
12/6/2016	CSMS-R01-ABMU-161206		<0.00203			0.05	
12/6/2016	CSMS-R01-ABNP-161200		<0.00203			0.05	
12/6/2016	CSMS-R01-ABNF-101200 CSMS-R01-FB01-161206		NA			NA	
12/6/2016	CSMS-R01-FB01-161206	Field Blank (open)	NA			NA	
12/6/2016	CSMS-R01-FB02-161206	Field Blank (closed)	NA			NA	
	Perimeter air monitoring cea	acad					1
	Ferineter all monitoring cea	aseu					
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L							
Notes:							

f/cc = fibers per cubic centimeter NA = Not analyzed TDL = Target Detection Limit (10% of permissable exposure limit)

APPENDIX C

Waste Profiles

EZ Profile™

Multiple Generator Locations (Attach Locations)	te of Disposal 🛛 Renewal? Original Profile Number:		
	B. BILLING INFORMATION	E AS GENE	RATOR
Generator Name: Honeywell Specialty Materials, LLC	1. Billing Name: Terra Contracting Services, LLC		
Site Address: <u>53102 M-26</u>	2. Billing Address: 5140 West Michigan Ave.		
(City, State, ZIP) Torch Lake Twp. MI 49945	(City, State, ZIP) Kalamazoo MI 49006		
County: Houghton	3. Contact Name: Kerry Puzio		
Contact Name: Chuck Geadelmann	4. Email: kerrypuzio@gleis.com		
Email: chuck.geadelmann@honeywell.com	5. Phone: <u>(269) 375-9595</u> 6. Fax: <u>(269) 375-</u>	-9595	
Phone: (763) 954-5418 7. Fax:	7. WM Hauled?	🛛 Yes	🛛 No
Generator EPA ID: 🗹 N/A	8. P.O. Number:		
State ID: 🗹 N/A	9. Payment Method: 🛛 Credit Account 🗖 Cash 🔲	Credit Ca	ard
MATERIAL INFORMATION	D. REGULATORY INFORMATION		
Common Name: Friable Asbestos Contaminated Soil	1. EPA Hazardous Waste?	Yes*	🗹 No
Describe Process Generating Material:	Code:	<u> </u>	
Soils contaminated with friable and non-friable asbestos	2. State Hazardous Waste?	🖵 Yes	Ma No
containing materials from demolition/dismantling or remediation activities. Does include clean-up wastes, such as soils	Code: 3. Is this material non-hazardous due to Treatment,		
contaminated with asbestos.	Delisting, or an Exclusion?	Yes*	🗹 No
	4. Contains Underlying Hazardous Constituents?	□ Yes*	🖬 No
Material Composition and Contaminants:	5. From an industry regulated under Benzene NESHAP?	🖵 Yes*	🛛 No
1. Soil 90 - 100 % 2. Friable Asbestos 0 - 10 %	6. Facility remediation subject to 40 CFR 63 GGGGG?	🖬 Yes*	🛛 No
3.	CERCLA or State-mandated clean-up?	🖬 Yes*	
4	8. NRC or State-regulated radioactive or NORM waste?		
Total comp. must be equal to or greater than 100% ≥100%	*If Yes, see Addendum (page 2) for additional questi		
State Waste Codes: 🗹 N/A	9. Contains PCBs? \rightarrow If Yes, answer a, b and c.	Yes	
Color: Various	a. Regulated by 40 CFR 761?	C Yes	
Physical State at 70°F: 🗹 Solid 🗳 Liquid 🖨 Other:	b. Remediation under 40 CFR 761.61 (a)?	Yes	
Free Liquid Range Percentage: to V/A	 c. Were PCB imported into the US? 10. Regulated and/or Untreated 	Yes	
pH:toto	Medical/Infectious Waste?	Yes	🗹 No
Strong Odor: 🖾 Yes 🗹 No Describe:	11. Contains Asbestos?	🗹 Yes	🗖 No
Flash Point: □ <140°F □ 140°-199°F □ ≥200° 21 N/A	\rightarrow If Yes: \Box Non-Friable \Box Non-Friable – Regula	ated 🛛	Friable
ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	F. SHIPPING AND DOT INFORMATION		
Analytical attached	1. 🗹 One-Time Event 🛛 🛛 Repeat Event/Ongoing Busin	less	
Please identify applicable samples and/or lab reports:	2. Estimated Quantity/Unit of Measure: 1000		
	🗹 Tons 🗖 Yards 🗖 Drums 🗖 Gallons 🛱 Other	:	
	3. Container Type and Size: Lined Dump Truck.		
	4. USDOT Proper Shipping Name:		🖾 N/A
Other information attached (such as MSDS)?	RQ Asbestos, Class 9, NA2212, PG III		

By signing this EZ Profile[™] form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

 Name (Print):
 Chuck Geadelmann
 Date:
 11/10/2016

 Title:
 Corporate Remediation Manager
 Company:
 Honeywell International Inc.

— Certification Signature —

Chuck Geadelman

Revised June 30, 2015 ©2015 Waste Management





Requested Facility:	Unsure Profile Number: 119547MI			
□ Multiple Generator Locations (Attach Locations) □ Request Certifica				
A. GENERATOR INFORMATION (MATERIAL ORIGIN) 1. Generator Name: Taplin Group, LLC 2. Site Address: Various (City, State, ZIP) Various MI 00000 3. County: 4. Contact Name: Kerry Puzio 5. Email: kerrypuzio@taplinholdings.com 6. Phone: (269) 375-9595 7. Fax: 8. Generator EPA ID: MIK 768 689 127 N/A	B. BILLING INFORMATION □ SAME AS GENERATOR 1. Billing Name: Taplin Group, LLC 2. 2. Billing Address: 5140 West Michigan Ave. (City, State, ZIP) Kalamazoo MI 49006 3. 3. Contact Name: Kerry Puzio 4. 4. Email: kerrypuzio@taplinholdings.com 5. 5. Phone: (269) 375-9595 6. Fax: 7. WM Hauled? □ Yes 1.			
9. State ID: 🗹 N/A	8. P.O. Number: 9. Payment Method: Image: Credit Account Image: Credit Card			
C. MATERIAL INFORMATION 1. Common Name: Non-Friable Asbestos Describe Process Generating Material: See Attached Demolition/renovation - when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Including gaskets, resilient floor coverings and asphalt roofing products (specify in C.2.) Does not include clean-up wastes, such as	D. REGUL ATORY INFORMATION 1. EPA Hazardous Waste? Code: 2. State Hazardous Waste? Code: 3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?			
2. Material Composition and Contaminants: See Attached 1. Non-Friable Asbestos (Uncontaminated) 0-100 % 2. 3. 3. 4. Total comp. must be equal to or greater than 100% $\geq 100\%$ 3. State Waste Codes: Image: Color: Various 5. Physical State at 70°F: Solid Liquid Other: 6. Free Liquid Range Percentage: to Image: N/A 7. pH: to Image: N/A 8. Strong Odor: Yes No Describe: 9. Flash Point: $< 140°F$ $140°-199°F$ $\geq 200°$ Image: N/A	 4. Contains Underlying Hazardous Constituents? □ Yes* ☑ No 5. From an industry regulated under Benzene NESHAP? □ Yes* ☑ No 6. Facility remediation subject to 40 CFR 63 GGGGG? □ Yes* ☑ No 7. CERCLA or State-mandated clean-up? □ Yes* ☑ No 8. NRC or State-regulated radioactive or NORM waste? □ Yes* ☑ No *If Yes, see Addendum (page 2) for additional questions and space. 9. Contains PCBs? → If Yes, answer a, b and c. a. Regulated by 40 CFR 761? □ Yes □ No b. Remediation under 40 CFR 761.61 (a)? □ Yes □ No c. Were PCB imported into the US? □ Yes □ No 10. Regulated and/or Untreated Medical/Infectious Waste? 11. Contains Asbestos? ☑ Yes □ No → If Yes: ☑ Non-Friable □ Non-Friable - Regulated □ Friable 			
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION 1. Analytical attached Please identify applicable samples and/or lab reports:	F. SHIPPING AND DOT INFORMATION 1. □ One-Time Event □ Repeat Event/Ongoing Business 2. Estimated Quantity/Unit of Measure: 2000 ☑ Tons □ Yards □ Drums □ Gallons □ Other: 3. Container Type and Size: Roll-off Truck 4. USDOT Proper Shipping Name:			
2. Other information attached (such as MSDS)?				

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the	
Generator that information contained in this Profile is accurate and complete.	

 Name (Print): Kerry Puzio
 Date: 11/15/2016

 Title: Director of Regulatory Services

Title: Dire	ector of Regulatory Services
Company	: <u>Taplin Group, LLC</u>

Kerry Puzio 186176b91e

Certification Signature

THINK GREEN:



EZ Profile™ Addendum

Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: 119547MI

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1):

If more space is needed, please attach additional pages.

soils, that are contaminated with nonfriable asbestos. (R	(Reference 104842MI) Please approve at all applicable WM Michigan Landfills

Material Composition and Contaminants (Continued from page 1):

If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 1009	ა ≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

b.	Is the material subject to the Alternative Debris standards (40 CFR 268.45)?	Yes	🔲 No
	Is the material subject to the Alternative Soil standards (40 CFR 268.49)? \rightarrow If Yes, complete question 4.	Yes	
	Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?	Yes	🛛 No
	\rightarrow If Yes, please check one of the following:		
	□ Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))		
	\Box Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.		
2. Sta	ate Hazardous Waste \rightarrow Please list all state waste codes:		
3. Fo	r material that is Treated, Delisted, or Excluded $ ightarrow$ Please indicate the category, below:		
	Delisted Hazardous Waste □ Excluded Waste under 40 CFR 261.4 → Specify Exclusion:		
	Treated Hazardous Waste Debris \Box Treated Characteristic Hazardous Waste \rightarrow If checked, complete question 4.		
4. Ur	nderlying Hazardous Constituents $ ightarrow $ Please list all Underlying Hazardous Constituents:		
a.	dustries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue.	🗖 Yes	🗖 No
b.	Does this material contain benzene?	🗖 Yes	🗖 No
	1. If yes, what is the flow weighted average concentration?		ppmw
	What is your facility's current total annual benzene quantity in Megagrams? \Box <1 Mg \Box 1–9.99	0	0
d.	Is this waste soil from a remediation?	🗖 Yes	🗖 No
	1. If yes, what is the benzene concentration in remediation waste?		ppmw
	Does the waste contain >10% water/moisture?		No No
	Has material been treated to remove 99% of the benzene or to achieve <10 ppmw?		No No
g.	Is material exempt from controls in accordance with 40 CFR 61.342?	🖵 Yes	🗖 No
	→ If yes, specify exemption:		
	Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF?		🗖 No
) CFR 63 GGGGG \rightarrow Does the material contain <500 ppmw VOHAPs at the point of determination?		
	ERCLA or State-Mandated clean up \rightarrow Please submit the Record of Decision or other documentation with process information		
	e evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA a		

8. NRC or state regulated radioactive or NORM Waste \rightarrow Please identify Isotopes and pCi/g: ____

APPENDIX D

Manifests and Associated Weigh Tickets

1/1

	VASTE SHIPMENT REC See Reverse for Instructions)	ORD/ASBE	stos M	IANIFE	st 77/	0V		•	sal Sile Use Only		
	1-A.Special Waste Frome Number	NESHAP Nakied	, 1997 - 1997 - 1997 - 1997 - 1997 - 19 97 - 199 	WSH Nur	1845		E	lavalian			
	A58119468MI	VYES	NO	100			N	torth	East		
	1-B. Generator Name, Contact Name, and Complete Mating Address (Including Za Code) HONEYWELL SPECIALTY MATERIALS, LLC 1985 Dours) (25 Dours) (2								ihone Number 54–5418		
	1-D. Work Sile Address HONEYWELL SPECIALTY MATERIALS, LLC 63102 M-26, TORCH LAKE TWP, MI 49945							1-E.24 Hour Entergancy Response Telephone Number 763-954-5418			
	2. Operator's Name and Complete Maling Address TERRA CONTRACTING SERVICES, LLC 5140 WEST MICHIGAN AVE, KALAMAZOO, MI 49006						Operator's Phone Number 269-375-9595				
	3. Weste Disposal Sile (WDS) Name and K&W LANDFILL	Complete Malling Add	1854	,		V	WDS Phone Number				
5	11877 M38, ONTONAGO								383-3504		
Generator	4. Name and Address of Responsible Agency State of Michigan, REGION 1 HEADQUARTERS 1990 US HIGHWAY 41 SOUTH, SOUTH MARQUETTE, MI 49855 5. Description of Materials 7. Total Quantity										
					os, 9, PGIII	N		Тура	¥03		
	Ideble asbastos		10,345			9	K, ,	\underline{K}	40		
	non-litable asbestos		Cat 1		Cet II				48.86		
	R. Special Handling Instructions and Add 24 HOURN NOTICE GAVEN PI 9. GENERATORYOPERATOR'S CERTIF plag name and zra classified, packed, m and government regulations. I hereby co PhineMayped Name and Title DMIGLARS	BOR TO DISPOSAL, I	close that the	contents of spects in pro	his consignment per condition for (perdore, PCB, n d.3 c For H	and fully and an monsport by hig and/or any space on copy on copy	canataly invay ac tal wagte WDC C	describe	ad above by proper ship- to applicable international Data.		
	10. Transporter I Company Name Compiles Disting Address 55600 M-2. C Calls in St. M-2. C Calls in St. M. T Talaphone Number (onclosing area code 906~337-0017 11. Transporter 2 Company Name Compose International Company Name		W.	Date	Name and Tels	Teb Jship -16	6 2 6 1 4	Don E	>rwer		
	Telephone Number (Inclucing อาฮล cod	Printed Name and Tills Date									
	12, Discrepently Indication Space										
Diapossi Site	13. Waste Disposal Sto Owner or Open Special Waste Approval Certification of receipt of	nice is issued by signature I	n the case of	a Generic A	sbestos Approval.			n/			

WASTE MANAGEMENT	K&W Land K&W Land 11877 HW Ontonago Ph: 906~0	Fill / 38 h, MI, 49953			490ka4	1126104 278294 278294
Customer Name TERRACO Ticket Date 11/15/2 Payment Type Credit Manual Ticket# Hauling Ticket# Route State Haste Code Manifest 1001	Ø16	a Contracti	Carrier VehicIe# Container Drīver Check# Billíng # Gen EPA I	109 0000449	B&B CONTRACT Volume	'ING
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		and the second se			North	East				
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		La Ana Vall		55422	10.					
	1-D. Work Sha Address HONEYWELL SPECIALTY MATERIALS,	LLC	J		1-E. 84 Hour I	mugency Response				
	63102 M-25, TORCH LAKE THP, MI	69945			Tolophan 763-1	a Number 954-5418				
	2. Operator's Name and Complete Malang Address									
	I AMORI CONTRACTING SERVICES, LIC	1			Operator's Pho	no Numbar	-			
	5140 WEST MICHIGAN AVE, KALAMAR	269-37								
	3, Weste Disposed Site (WDS) Name and Complete K&W LANDFILL	Malling Address		·	WDS Phone N	umbar				
۶.	11877 M38, ONTONAGON, MI				1	67-0802	1 ()			
Generator	1				906-883-3504					
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	8. Special Handling Instructions and Additional Inform					1561847				
	24 HOUR NOTICE GIVEN PRIDR TO DISPOSAL, MUST BE BURIED									
	9. GENERATORYOPERATOR'S CERTIFICATION: I haroby declara that the contains of this consignment are fully and excuratory blanchind above by proper allop- ping neme and ere classified, packed, marked, and labeled, and real not respecte in proper candidan for transport by highway recording to approach to international and government regulations. I haroby certify that the nobosice is not containinated with increational, PCB, and/or any special watte.									
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K&W Landfill 11877 HWY 38 Ontonagon, MI, 49953 Ph: 906-883-3504

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Original Ticket# 270312

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Total Tax Total Ticket

Dr. 403WM-Ns Signature

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	1-B. Generator Name, Contact Name, a HONEYWELL SPECIAL TY MATERIAL	s, LLC 19851	Dougla	s Dr. North	, ¹	G. Conoratorio	Phone Muniby
		49945 MNIO Golde	~/2001		iyaa	763-	954-5418
	1-D. Work Sile Address HONEYWELL SPECIALITY MATH	RIALS. LLC	-1-1-1/ -1/173	Ley Min DE		E. 24 Hour En	chency Response
	63102 M-25, TORCH LAKE 1	TWP, MI 49945				Telephone I 763-95	Yunbar 19~5419
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WASTE MANAGE	11877 Onto:	andfill HWY 38 Magoo, MI, 4 906-893-3504		· 、		Origina Ticket#	
Ticket Date Payment Type Manual Ticke Hauling Tick Route State Haste Manifest Destination PO Profile	2 Credit Account et# cet# Code 1003	RIABLE ASBE	Vel Cor Ori Che Bil Gar Gar STOS CGI	vicle# 7 Ntainer Iver Ick# Ling # I EPA TD Id NTAMINATE	51 0000449 D SOIL)	Jim Wender & Volume	Sone
	HOMEYNELL SPECI 63102 M26	icald N.TY MATERIA	LThor: LThor: LS LLC	2501 2501	Inbound	Gross Tare Net Tons	159100 15 51900 15 107200 15 53.60
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Jon

Total Táx Total Ticket

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Dr 1998 Signature

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WASTE SHIPMENT RECORD/ASBESTOS MANIFEST Ħ For Disposal Site Use Only (See Reverse for Instructions) 1-A.Special Waste Profile Number NESHAP Notified WSR Number Elevation 07922 ASB119468MI YES MO North Fast 1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) 1-C. Generator's Phone Number 1985 Douglas Dr. North MN10-1328 HONEYWELL SPECIALTY MATERIALS, LLC 763-954-6418 -53100 M-20 FORGHLAKE TWO MLADOAS kenValley, MN 554 1-D. Work Site Address 1-E. 24 Hour Emergency Response HONEYWELL SPECIALTY MATERIALS, LLC Telephone Number 53102 M-28, TORCH LAKE TWP, MI 49045 763-954-5418 2. Operator's Name and Complete Mailing Address **Operator's Phone Number** TERRA CONTRACTING SERVICES, LLC PO BOX 127, BARK RIVER, MI 49807 269-375-9595 3. Waste Disposal Site (WDS) Name and Complete Mailing Address WDS Phone Number K&W LANDFILL 966-883-3504 11877 M 38, ONTONAGON, MI 49953 Generator 3600 4. Name and Address of Responsible Agency Region ichigan Industrial Division Asbestos Program 1990US Highway 520-Lefavelte Ret St. Pear why 1919 Hale 41 Margi 5. Description of Materials Friable Asb 6. Containers 7. Total Quantity 41855 No: Type vd3 friable asbestos RQ, NA2212, Asbestos, 9, PGIII 2 non-friable asbestos Cat I Cat II 51 8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED 9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents 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. I hereby certify that the asbestos is not contaminated With hazardous, PCB, and/or any special waste. Printed/Typed Name and Title Signature as Date Val 6 10. Transporter 1 Company Nam **Driver Signature** Ca Complete Mailing Address 55670 M-26 CALUMET, MZ Telephone Number (including area code) Printed Name Driver Transporter 926-337-0017 11. Transporter 2 Company Name **Driver** Signature 166886 D > 7**Complete Mailing Address** and Carlinghang in many in the work of the second Printed Name and Title Telephone Number (including area code) Date 12. Discrepancy Indication Space Site 13. Waste Disposal Site Owner or Operator Disposal Certification of receipt of asbestos materials covered by this manifest except as noted in Item 12. Printed/Typed Name and Title OPC 3 Signature Date NPSM 5-16 SŤ SY(Q) 0 WHITE - Disposal Site CANARY - Generator. PINK - Transporter GOLD - Generator (To be mailed by Disposal Site) DCE-230-97 (To be taken prior to disposal)



K&W Landfill 11877 HWY 38 Ontonagon, MI, 49953 Ph: 906-883-3504 Original Ticket# 278307

Customer Ticket Da	Name TERRACONTRACT TE te 11/15/2016			BCONTRACTING	B&B CONTRAC Volume		
	ype Credit Account	•	Container		v w a sum c	•	
Manual Ti			Driver			•	
Hauling T			Check#				
Route			Billing #	0000449			
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Destinati		i	Grid			,	
PD PD		· · · · ·	51 215				
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Generator							
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	5/2016 16:10:54 Sea		nreson 🐇	ali Maria di Angela	Net	102240	
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	TORCH LAKE TWP			en e			
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					otal Tax tal Ticket		
Drtogwn-Ne g	lignature					.	3

	A A Quantitation of the law			None of the second seco				
	1-A.Special Waste Profile Number		WSR Number	107	I North	ion		
÷ .	1-B. Generator Name, Contact Name, a	and Complete Mailing Address	(including Zip Code)	Les De Dort	II 1-C. Generator	's Phone Number		
•	1-B. Generator Name, Contact Name, a HONEYWELL SPECIA 52402-M-28, TGRCH11 1-D. Work Site Address		· · · · · · · · · · · · · · · · · · ·	B ley, MN 53	1422	763-854-5418 mergency Response		
	HONEYWELL SPECIA 53102 M-28, TORCH L		lelephone	Number				
:	2. Operator's Name and Complete Mail TERRA CONTRACTIN PO BOX 127, BARK RI	G SERVICES, LLC VER, MI 49807			Operator's Pho			
ator	3. Waste Disposal Site (WDS) Name an K&W LANDFILL 1/1877 M 38, ONTONA	30N, MI 49953			WDS Phone Nu 906-8	183-3501		
Generator	4. Name and Address of Responsible Agency Industrial Division Astrestos Program STATE OF Michigan Region I Head Quarters 020 Earsyste RUIN, St. Paul, MIN 00100-1101 1990 US Highway H South, South Aller							
	5. Description of Materials	riable Asb		TIMMOLA	6. Containers No. Type	7. Total Quantil yd3		
l et	friable asbestos	RC), NA2212, Asbestos, 9, P(ЭШ — — — — — — — — — — — — — — — — — — —	2 TR	40		
	non-friable asbestos 8. Special Handling Instructions and Add		t I Cat II			53.92		
	9. GENERATOR/OPERATOR'S CERTIF ping name and are classified, packed, m and government regulations. I hereby ce	rtify that the asbestos is not co	at the contents of this cons all respects in proper cond plaminated with hazardous nature	ignment are fully and lition for transport by s, PCB, and/or any sp	l accurately describ highway according becial waste	ed above by proper sh tojapplicable internatio		
	Printed Typed Name and Title	H //			N Joll	11/15/		
		-H South	Driver Signature	2 mil	<u>eywell/</u>	11 19 22 E		
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	10. Transporter 1 Company Name T (M W CMGON Complete Mailing Address D 115 & OMM Telephone Number (including area code) 11. Transporter 2 Company Name Complete Mailing Address	- 22 SO 42 Pine CAren 11 4980, 21601	Printed Name and	atille de ner 1-15-	-1 8			

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WASTE MANAGEMENT	W LandFill			Origin	al
	1877 HWY 38	-		Ticket	# 278308
	htonagon, MI, 4995 h: 506-883-3504	<u>.</u> 5			
		1 ⁹			
Customer Name TERRACONTE Ticket Date 11/15/2016		l Carrier Vehicle#		lim Wender Volume	& Sons
Payment Type Dredit Acc		Container		7 Q 1 Q 10 5.	
Manual Ticket#	•	Driver			
Hauling Ticket#		Check#			
Route		Billing #			
State Waste Code		Gen EPA I	D		
Nanifest 107923 Destination		Grid			
20		711 771			
Profile OSB119469N				·	
Generator 136-HONEY	IELLSPEC HONEYNELL	SPECIALTY M	ATERIALS LLC		·
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Out 11/15/2016 16:04:25	Scale L	Thoreson		Net	107840 16
		. 		Tons	53,92
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TURCH LAKE	TERT				
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WASTE SHIPMENT RECORD/ASBESTOS MANIFEST For Disposal Site Use Only (See Reverse for Instructions) NESHAP Notified 1-A.Special Waste Profile Number Elevation WSR Number 7921 ASB119468MI YES NO North East 1-B. Generator Name, Contact Name, and Complete Mailing Address (including 75 Douglas C North 1-C. Generator's Phone Number HONEYWELL SPECIALTY MATERIALS, LLC 783-854-5418 132B 691020139 PORCHARGE ALL 10045 1-D. Work Site Address 24 Hour Emergency Response HONEYWELL SPECIALTY MATERIALS, LLC Telephone Number 53102 M-28, TORCH LAKE TWP, MI 49945 763-954-5418 2. Operator's Name and Complete Mailing Address Operator's Phone Number TERRA CONTRACTING SERVICES, LLC PO BOX 127. BARK RIVER, MI 49807 269-375-9595 3. Waste Disposal Site (WDS) Name and Complete Mailing Address WDS Phone Number K&W LANDFILL 906-183-3504 11877 M 38, ONTONAGON, MI 49953 Generator 200-009-4778-4. Name and Address of Responsible Agency Head ONONTERTS 13.11 Industrial-Division Assertos Program 41 South 528 Enforcette RUTH-St-Fisch AAL 49856 5. Description of Materials Friable Asb 6. Containers 7. Total Quantity No. Type yd3 friable asbestos RQ, NA2212, Asbestos, 9, PGIII 2 non-friable asbestos Cat I Cat II Tom 8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED 9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents 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. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or any special waste Printed/Typed Name and/Title Signature Date Transpo rter 1 Company Name 10. Driver-Signature 50 Wender Å Complete MOD PING CREEK Printed Name and Title 6 1 Telepho Transporter Date 2164 11. Transporter 2 Company Name **Driver Signature** Complete Mailing Address Printed Name and Title Telephone Number (including area code) Date 12. Discrepancy Indication Space Site 13. Waste Disposal Site Owner or Operator Disposal Certification of receipt of asbestos materials covered by this manifest except as noted in item 12. Printed/Typed Name and Title /Signature Decations Date 10 000 10 WHITE - Disposal Site CANARY - Generator PINK - Transporter GOLD - Generator DCE-230-97 (To be mailed by Disposal Site) (To be taken prior to disposal)

							11261066
WASTE MANAGEMENT						Origin Ticket	al # 278309
Time In 11/15/2016 19 Out 11/15/2016 19 Comment: 40NEV 53102	13/2016 dit Account 924 119469MI (FRI -HONEYWELLSPE 5:47:38 Sca 5:47:38 Sca 6:24:05 Sca Sca NZLL SPECIALT M26	ABLE ASB C HONEYN ale 1 e V MATERIA	Vel Cor Dri Che Bil Ger Gr STOS CON LL SPEC Dpera LThore LThore	nicle# 751 Itainer Iver Eck# Lling # 6 DEPA ID Id TAMINATED IALTY MATER Stor Stor	SOIL) MALS LLC Inbound	Volume	
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2 EVF-L-Standa							

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Dr403WM-Na Signature

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WASTE SHIPMENT RECORD/ASBESTOS MANIFEST For Disposal Site Use Only (See Reverse for Instructions) 1-A.Special Waste Profile Number Elevation **NESHAP** Notified WSR Number 107925ASB119468MI YES NO North Fast 1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) Live North -C. Generator's Phone Number MN10-1328 HONEYWELL SPECIALTY MATERIALS, LLC 763-954-5418 GOLDEN VALLEY, MN 55 122 STUDIES TORGELLAKE THE MALAOSA 1-D, Work Site Address 1-E. 24 Hour Emergency Response HONEYWELL SPECIALTY MATERIALS, LLC Telephone Number 53102 M-28, TORCH LAKE TWP. MI 49945 763-954-5418 2. Operator's Name and Complete Mailing Address Operator's Phone Number TERRA CONTRACTING SERVICES, LLC PO BOX 127, BARK RIVER, MI 49807 269-375-9595 3. Waste Disposal Site (WDS) Name and Complete Mailing Address WDS Phone Number K&W LANDFILL 906-883-3504 11877 M 38, ONTONAGON, MI 49953 Generator 4. Name and Address of Responsible Agency STATE OF MICHIGGA Hendunatens Industrial-Division-Asbestos Program 620 Lefeyette Rd-U-91: Paul, IVIN 59155-4198 5. Description of Materials 6. Containers 7. Total Quantity Friable Asb No Type yd3 friable asbestos RQ, NA2212, Asbestos, 9, PGIII a non-friable asbestos Cat I Cat II 101 8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED 9. GENERATOR/OPERATOR'S CERTIFICATION: 1 hereby declare that the contents 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. I hereby certify that the asbestos is not contaminated with hazardous; PCB, and/or any special waste. Printed/Typed Name and Tille < Signature DUGLAS -DAIGH 10. Transporter 1 Company Name JIM WENUDA - N- SONS Driver-Signature Complete Mailing Address W7158 ONDEN PINE CREEK RE I RON MT MICH 49801 R Owner Printed Name and Title Telephone Number (including area code) 906 7741 21641 Transporte Date 11. Transporter 2 Company Name Driver Signature **Complete Mailing Address** Printed Name and Title Telephone Number (including area code) Date 12. Discrepancy Indication Space Site 13. Waste Disposal Site Owner or Operator Disposal Certification of receipt of asbestos materials covered by this manifest except as noted in item 12. Printed/Typed-Name and Tille Signature operat Date 11-6-10 1CCS WHITE - Disposal Site CANARY - Generator (To be mailed by Disposal Site) PINK - Transporter GOLD - Generator DCE-230-97 (To be taken prior to disposal)

						11261073
WASTE MANAGEMENT	K&W Landfill 11677 HWY 38				Origin Ticket	al # 278318
	Ontenagon, MI,	49953			(ICAEC	n c/0010
	Ph: 906-883-350	4				
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Ticket Date 11/16/20				750	Volume	۹.
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20						
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53192 M26	*1. 0*1		· · ·			
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Total Tax Total Ticket

Dr 403WM-Ns Signature

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	ASB119468MI	NESHAP Notified	WSR Number	.0792		en en en en		
	1-B. Generator Name. Contact Name a				North	East		
	1-B. Generator Name, Contact Name, a		1785 Ubugla	s Dr. 1101+1	//of-+/ 1-C. Generator's Phone Number			
	HONEYWELL SPECIA	LIT WATERIALD, LLL	MN10-1321	3 AAAI 1	783-954-5418			
1	1-D. Work Site Address	CANE I AN INTERNET	GOLDEN VALL	and the second				
	HONEYWELL SPECIA	LTY MATERIALS LLC	nte de poleto quificante ele Non estructura en an		E. 24 Hour Eme Telephone Nu	gency Response		
	53102 M-28, TORCH L					3-954-5418		
	2. Operator's Name and Complete Maili			0	perator's Phone			
	TERRA CONTRACTIN			Y		VUITIDEI		
	PO BOX 127, BARK R				26	3-375-9595		
	3. Waste Disposal Site (WDS) Name an	W	DS Phone Numb					
2	K&W LANDFILL 11877 M 38, ONTONA		406-8	83-3504				
Generator	4. Name and Address of Responsible A	Region 7	11-1	Standard				
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	520-Lofoyette Act 17, St	***********************	South Mara	uette, MI	4986	6		
	5. Description of Materials	riable Asb		6. No	Containers	7. Total Quantity		
	friable asbestos	RQ	NA2212, Asbestos, 9, PGI		. Type	yd3		
				2	TR.	40		
	non-friable asbestos	Cat	I Cat II	_	17	521872		
	8. Special Handling Instructions and Add	litional Information	-			20/18/01		
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	ping name and are classified, packed, m and government regulations. I hereby ce	PCB, and/or any specia	vay according to waste.	applicable internation				
(Cilco)	Printed/Typed Name and Title	Sigr	nature	- as an	agent	Date /		
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Ticket Date 11/16/2016

K&W Landfill 11077 HWY 38 Ontonagon, MI, 49953 Ph: 906-603-3504

Customer Name TERRACONTRACT TERRA CONTRACTI Carritor

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State Waste					EPA ID			
Hauling Tic Route	∴Ket#				ck# ling #	0000449		
Manual Tick					ver			
	pe Credit Acc				tainer	` \		

Vehicle# 751

Total Tax Total Ticket

Dr #Q8WMAN: Signature

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11261074

Original Ticket# 278320

Volume

JIMWENDERSONS Jim Wender & Sons

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WASTE SHIPMENT RECORD/ASBESTOS MANIFEST For Disposal Site Use Only (See Reverse for Instructions) 1-A.Special Waste Profile Number **NESHAP** Notified WSR Number Elevation 107927 **ASB119468MI** North East 1-B. Generator Name, Contact Name, and Complete Mailing Address (Including Zip Code) HONEYWELL SPECIALTY MATERIALS, LLC MNIO-132B 53103 M-08, TORCHUMKE THIP: MI 40815 GOLDEN VALLEY, MW 55422 763-954-5418 1-D. Work Site Address E. 24 Hour Emergency Response HONEYWELL SPECIALTY MATERIALS, LLC Telephone Number 53102 M-28, TORCH LAKE TWP, MI 49845 -jt763-954-5418 2. Operator's Name and Complete Mailing Address Operator's Phone Number TERRA CONTRACTING SERVICES, LLC PO BOX 127, BARK RIVER, MI 49807 269-375-9595 3. Waste Disposal Site (WDS) Name and Complete Mailing Address WDS Phone Number K&W LANDFILL 906-883 11877 M 38, ONTONAGON, MI 49953 Generator 4. Name and Address of Responsible Agency Michigan Healow and buar Industrial-Division-Astrestos-Program. SOUTH 520 tradevelle-Pid-Pildt-Wild-55+35-4+84< 19855 suth 1 5. Description of Materials 6. Containers Friable Asb 7. Total Quantity No. Type yd3 friable asbestos RQ, NA2212, Asbestos, 9, PGIII يتجنح non-friable asbestos Cat I Cat II 5 2.Ton 8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED 9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper ship-ping 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. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or any special waste. Printed/Typed Name and Title Signatu Date)ColA ¥ (🖯 10. Transporter 1 Company Name Driver-Signature BYR CON1. Complete Mailing Address 55670 m-26 columer, MI 49913 Printed Name and Title Driver Telephone Number (including area code) ransporter 906-337-04/7 Date 11. Transporter 2 Company Name **Driver Signature** 22.1 Complete Mailing Address Printed Name and Title Telephone Number (including area code) Date 12. Discrepancy Indication Space Site 13. Waste Disposal Site Owner or Operator Disposal Certification of receipt of asbestos materials covered by this manifest except/as noted in Item 12. Printed/Typed Name and Title OPERATIONS Signature Date Recin mp S m 16 WHITE - Disposal Site CANARY - Generator PINK - Transporter GOLD - Generator DCE-230-97 (To be mailed by Disposal Site) (To be taken prior to disposel) X 1

WASTE MANAGEMENT	K&W Landfill 11877 HWY 38 Ontonagon, MI, 499 Ph: 906-883-3504	53	Drigin Ticket	11261077 # 276322
	016	Vehicle# 109 Container Driver Check# Billing # 000 Sen EPA ID Grid DS CONTAMINATED S0		
Time In 11/16/2016 11:25: Out 11/16/2016 12:01: Douments HONEYWELL 53102 M26 TORCH LAKE	107 Scale 36 Scale SPECIALTY MOTERIAL TWP		Inbound Gross Tare Net Tons	157400 16 55160 16 102240 16 51.12
Product	LDX Oty !	CM Rate	Tax Anount	Grigin
1 Asb Friable-Tons- 2 EVF-L-Standard Er		ons 		Hougmi Hougmi
·	25101	iche	Total Tax Total Ticket	
Dr403WM-Ns Signature				. 🏵

	VASTE SHIPMENT RE	CURD/ASB	ESIUSN	IANIFEST	- T / 2	SO	For Disp	osal Site Use Only	
	1-A.Special Waste Profile Number	NESHAP Notified	NO	WSR Number	.07	928	Elevation	nEast	
	I-B. Generator Name, Contact Name, HONEYWELL SPECIA	LTY MATERIAL	S, LLC	15 Duglas NIO-1321 NIDEN VAL	3		- 영상 영상	Phone Number 33-954-5418	
	I-D. Work Site Address HONEYWELL SPECIA 53102 M-26, TORCH L	and the second		55422		1-Е.	-E. 24 Hour Emergency Response Telephone Number 763-954-5418		
	TERRA CONTRACTING SERVICES, LLC PO BOX 127, BARK RIVER, MI 49807						ator's Phone		
	3. Waste Disposal Site (WDS) Name and Complete Mailing Address K&W LANDFILL 11877 M 38. ONTONAGON, MI 49953								
	4. Name and Address of Responsible Agency Industrial Division Asbestos Program 520 Lefayette RGIN, St. Paul, MIN 05105-0182 South Marshelte, MI 49855 5. Description of Materials 5. Description of Materials								
-	friable asbestos	Friable Asb	RQ, NA22	12, Asbestos, 9, PGIII		No.	Type	7. Total Quantity yd3	
	non-friable asbestos		Cat	Cat II		<u> </u>	112	51.25 Ton	
	and the second second second second second	HIGH TO DISPOSAL,	MUST BE BURI	ED CONCUSSION					
۲ ۲	D. GENERATOR/OPERATOR'S CERTI ing name and are classified, packed, r ind government regulations. I hereby c rinicad/Typed Name and Title	FICATION: I hereby de narked, and labeled, ar ertify that the asbestos	eclare that the conductor	ontents of this consignm	for transnort h	highword	ana and an a	d above by proper ship- Dapplicable international Pate	
	CENERATOR/OPERATOR'S CERTI ing name and are classified, packed, r ind government regulations. I hereby c infiled/Ayped Name and Title DUGLAS 0. Transporter 1 Company Name JIM WEALAN Complete Mailing Address W715G UMP PO TACM MT MIC	FICATION: I hereby di narked, and labeled, ar ertify that the asbestos AIGH -M- Som Inte Case Inte Case Inte Case	eclare that the conductive of	ontents of this consignm	for transport b DB, and/opany	y highway special wa S CLA S C	ana and an a	Papplicable international Pate	
+ 3 1 1	GENERATOR/OPERATOR'S CERTI ing name and are classified, packed, r ind government regulations. I hereby cl rinted/Typed Name and Title DUGLAS 0. Transporter 1 Company Name JIM WEAMA Somplete Mailing Address W715 & UPP & P The milling Address	FICATION: I hereby di narked, and labeled, ar ertify that the asbestos AIGH -M- Som Inte Case - M 4960 e)	eclare that the conductive of	Difference of this consigning of this consigning of this consigning of the condition the difference of the condition of the c	for transport b DB, and/opany	y highway special wa S CLA S C	according to aste. <u>Secul</u>	Papplicable international Pate	
••• ••• ••• ••• •• ••	GENERATOR/OPERATOR'S CERTI ing name and are classified, packed, r ind government regulations. I hereby co rinied/Atyped Name and Title DUGLAS 0. Transporter 1 Company Name JIM WERMAN Complete Mailing Address W715G UMP ON TACM MT MIC relephone Number (including area code	FICATION: I hereby dinarked, and labeled, ar ertify that the asbestos AIGH -M-SOM Ince Co.ee - 4 4960 - 4 960 - 6 - 2160	eclare that the conductive of	Driver Signature Printed Name and Tif	for transport b DB, and/opany	y highway special wa S CLA S C	according to aste. <u>Secul</u>	Papplicable international Pate	
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WASTE MANAGEN	IENT .	Ph: 906	VY 38 on, MI, 4 -883-3504	}	4 -1.97		Tick	11261082
Customer Name Ticket Date Payment Type Manual Ticket Hauling Ticket Route State Waste D Manifest Destination PD Profile Generator	11/16/20 Credit A # # Code 107928 ASB11946	16 count BMI (FRI)	able asbe	Vel Cor Dr Ch Bi Ge Gr STOS CO	hicle# 7 ntaiger iver eck# lling # n EPA ID id NTAMINATE	50 DUDC449	19 Jim Wenda Volu	
Out 11/16/29 Consents 1	(16 14:03: 16 14:21: HONEYWELL 33102 M26 TORCH LAKE	Sca 11 Sca 50 Bca SPECIALT TWP	ale (le Y MATERIf	Oper L.Thip L.Thor L.S. L.LC	ator Jon 👘	Inbour	nd Gross Tare Net Tons	153920 15 51420 15 102500 15 51.25
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·) . (; [· · · ·	Total Tax Total Ticke	t
Dr40awm-Ne Sign	sture							C

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WASTE SHIPMENT RE			101/	For Disposal Site Use Only
1-A.Special Waste Profile Number		WSR Number	107929	Elevation
1-B. Generator Name, Contact Name, a	and Complete Mailing Address	s (including Zip Gode)	Dr. Anthin.c. G	enerator's Phone Number
HONEYWELL SPECIA 59102-M-28, TORCH44	LTY MATERIALS, LL	C MNIO- 7321 GOLDEN VALLE	3 4, MN 5544	A 763-954-5418
1-D. Work Site Address HONEYWELL SPECIA 531D2 M-28, TORCH L	LTY MATERIALS, LL	onen sin en en en er Orten generationen er	1-E. 24	Hour Emergency Response lephone Number
2. Operator's Name and Complete Maili TERRA CONTRACTIN	ing Address		Operato	763-954-5418 or's Phone Number
PO BOX 127, BARK R	IVER, MI 49807	leti meningki saya ayay <u>Seringki saya</u> ata		269-375-9695
3. Waste Disposal Site (WDS) Name ar K&W LANDFILL 11877 M 38, ONTONA			WDS P 90	hone Number 6-883-3504
4. Name and Address of Responsible A Industrial Division Asia	gency J.	ATE OF Michiga 1990 US His	hway 41.50	Wh
520 Lafayette Rol H. St 5. Description of Materials	riable Asb	<u>South Mayou</u>	6. Conta No.	iners 7. Total Quantity Type yd3
friable asbestos	R	Q, NA2212, Asbestos, 9, PGIII	2	TR 40
non-friable asbestos	C	at I Cat II		(53.2770)
9. GENERATOR/OPERATOR'S CERTIF oling name and are classified, packed, m and government regulations. I hereby ce	RIOR TO DISPOSAL, MUST I FICATION: I hereby declare the harked, and labeled, and are in rulify that the asbestos is not c	hat the contents of this consignn	nent are fully and accurately	described above by proper ship- coording to applicable international
nilted/Typed Name and Title	HIGH C-SI	Ignatilire	S Honeya	SII Pate 1-16-16
10. Fransborter 1 Company Name JM Wandur Complete Mailing Address W S & UPVER	PINE CREE	Driver Signature	Vender	
felephonę Number (including area code)		Printed Name and Til	IENDER	
406774216 11. Transporter 2 Company Name	4	Date 11/16/	16	
Complete Mailing Address	na 1995 - Angeler Maria, 1997 1997 - Angeler Maria, 1997	Driver Signature		
	n perioda de la productiona de la composición de la composición de la composición de la composición de la compo Composición de la composición de la comp Composición de la composición de la comp	Printed Name and Tit	le	
elephone Number (including area code)	n Na shekara ta shekara	Date		
2. Discrepancy Indication Space				
3. Waste Disposal Site Owner or Opera	en e	<u> </u>	\geq	
Printed/Typed Name and Title	N	this manifest except as noted in	Item 12	
Time of typed Maine and Thue Of	red Estions laid	gnature	12 Lan nomen	Date

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K&W Landfill 11877 HWY 38 Ontonayon, MI, 49953 Ph: 906-883-3504

Ticket Data	e Credit Account et# :ket# Code 107929	Vehicle# 751 Container Driver Check# Billing.# 0000449 Gen EPA(ID Grid CONTAMINATED SOIL)	lim Wender & Volume	Sons
	Scale 0 2016 14:23:51 Scale LT 2016 14:44:46 Scale LT	perator Inbound horeson horeson	Sross Tare Net	156420 1b 51880 1b 104540 1b
Consent:	IUMUR LAKE DAP	ur de la constance de la const Relativa de la constance de la c	Tons	52.27

•••	duct	LD%	Qt y	UOM	Rate	Tax	Amount	Origin
1	Ash Friable-Tons-A		52.27	Tons				Hougmi
2	EVF-L-Standard Env	1.00	t	Load				HOUGMI

Total Tax Total Ticket . . .

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Drioswm-Ns Signature

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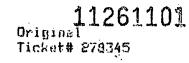
Original Ticket# 278331

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WASTE SHIPMENT RECORD/ASBESTOS MANIFEST For Disposal Site Use Only (See Reverse for Instructions) 1-A.Special Waste Profile Number NESHAP Notified WSR Number Elevation 07930 ASB119468MI Cash YES NO North East 1-B. Generator Name, Contact Name, and Complete Mailing Address (including 2) Colema (05 Dr. 1101 P.C. Generator's Phone Number HONEYWELL SPECIALTY MATERIALS, LLC MNID-HERB 59402 MIDE TORCH LANS EAP MILLER, GOLDEN VALLEY, MN 703-954-5418 55210 1-D. Work Site Address I-E. 24 Hour Emergency Response HONEYWELL SPECIALTY MATERIALS, LLC Telephone Number 53102 M-28, TORCH LAKE TWP, MI 49945 763-954-5418 2. Operator's Name and Complete Mailing Address Operator's Phone Number TERRA CONTRACTING SERVICES, LLC PO BOX 127, BARK RIVER, MI 49807 269-375-9595 3. Waste Disposal Site (WDS) Name and Complete Mailing Address WDS Phone Number K&W LANDFILL 906-883 11877 M 38, ONTONAGON, MI 49953 Generator 4. Name and Address of Responsible Agency STATES OF // INC. Industrial Division Astrestos Provision Ighway & 529-Lefevente Rd H: 5): Pad: MNV 35150-d 18d ELP e.M 5. Description of Materials Friable Asb 6. Containers **Total Quantity** No. Туре vd3 friable asbestos RQ, NA2212, Asbestos, 9, PGII 2 non-friable asbestos Cat I Cat II 6.61 Jon 8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED 9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents 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. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or any special waste. Printed/Typed Name and Title Signature Allar Wer 1 A ransporter 1 Company Name, Driver Signature CENI Complete Mailing Address 55670 M. 26 Calon, eT MJ Telephone Number (including area code) SEG - 337 - 0817 Printed Name and Title hidd Driver **Fransporter** Date 11. Transporter 2 Company Name **Driver Signature** 16681.36 Complete Mailing Address Printed Name and Title Telephone Number (including area code) Date 12. Discrepancy Indication Space Site 13. Waste Disposal Site Owner or Operator Disposal Certification of receipt of asbestos materials covered by this manifest except as noted in item 12. Printed/Typed Name and Title Signature Date 10 まご Sex10 138 CANARY - Generator (To be mailed by Disposal Site WHITE - Disposal Site PINK - Transporter GOLD - Generator DCE-230-97 (To be taken prior to disposal)

WASTE MANAGEMENT

K&W Landfill 11877 HWY 38 Ontonagon, MI, 49953 Ph: 906-883-3504



Customer Name TERRACONTE Ticket Date 11/17/2010 Payment Type Credit Acc Manual Ticket# Hauling Ticket# Poutc State Waste Code Manifest 107930 Destination PU Profile ASB1194684 Generator 136-HONEY4	ount I (FRIABLE ASBESTOS	Vehicle# 109 Container Driver Check# Billing # 0000449 Gen EPA ID Grid CONTAMINATED SOIL)	Volume	XG
Time In 11/17/2016 10:47:03 Out 11/17/2016 11:18:03 Comments HONEYWELL SF 53102 M26 TORCH LAKE 1	Scale LT Scale LT ECIALTY MATERIALS C	idreson hòreson CT	und Gross Tare Net Tong	147860 15 54640 15 93220 15 46.61
Froduct	LD% Qty UTM	Rate Tax	Amount	Origin
1 Asb Frieble-Tons-A 2 EVF-L-Standard Env	100 46.61 Ton	1999 Marin 1999 Marin 2000 Marin 2000 Marin 2000 Marin 2007 Marin 200		lougni lougni
	• • •		Total Tax Total Ticket	
Drivers Signature		• ۲۰۰ 	• •	B

	WASTE SHIPMENT RE (See Reverse for Instructions)	.comb/ASBL	.5103 14	MINIFEOI	n de la com Se foi de la foise			osal Site Use Only
	1-A.Special Waste Profile Number	NESHAP Notified	NO	WSR Number	Α	7931	Elevation	East
	1-B. Generator Name, Contact Name, HONEYWELL SPECIA 52102-M-28; TORCH 1	LTY MATERIALS	and MI	第5例的uglo NIO-132 IdonVall	28	155423	71	53-954-5418
	1-D. Work Site Address HONEYWELL SPECIA 53102 M-28, TORCH I	and the second					elephone N	èrgency Response lumber 33-954-5418
	2. Operator's Name and Complete Mail TERRA CONTRACTIN PO BOX 127, BARK R	IG SERVICES, LI IVER, MI 49807						39-375-9595
ator	3. Waste Disposal Site (WDS) Name a K&W LANDFILL 11877 M 38, ONTONA	GON, MI 49953	aress			90	Phone Num NG - 8	83-350L
Generator	4. Name and Address of Responsible / Industrial Division Asb 520 Lafsyette Rd N, St	estos Program	5-4194					
	5. Description of Materials	Friable Asb				6, Conl No.	ainers Type	7. Total Quantity vd3
	friable asbestos	NELL OF STREET	RQ, NA22	12, Asbestos, 9, PG	10	2	TR	Un
	non-friable asbestos		Cat I	_ Cat II			<u>, , </u>	48.70 Tor
inter.	8. Special Handling Instructions and Ac 24 HOUR NOTICE GIVEN I		IUST BE BURI	ED			meles	
*	9. GENERATOR/OPERATOR'S CERT ping name and are classified, packed, and government regulations. I hereby of Printed/Typed Name and Title							ad above by proper ship o applicable internationa Date
Transporter	10. Transporter 1 Company, Name Complete Mailing Address SSC 76 M-Z Gallom (Transporter Cincluding area cod SG 2000 11. Transporter 2 Company, Name		A	Driver Signature	er J i Tille S J C 17	- chida - 18	<u>e</u> =1 t	
Tran	DOT 166836 Complete Mailing Address			Driver Signature				fili filosoficiones el Vice a la Statistica filosoficio
	Telephone Number (including area cod	e)		Printed Name an Date	d Title			
Site	12. Discrepancy Indication Space	an transmission Gélégiéne Al M	n an				an an An An An An An An An	n (der hangen er som under Bieder norm Gebeure
Disposal S	13. Waste Disposal Site Owner or Ope Certification of receipt of		red by this maj	itest except as not	ed in Item 12.			

WASTE MANAGEMENT	K&W Landf 11877 HWY Ontonayen Ph: 906-0	' 38 1, MI, 4995	3		Origi Ticke	11261122 na1 t# 270367
	16 scount 341 (FRIA8	LE ASBESTO	Vehicle# Container Driver Check# Billing # Gen EPA I Gen EPA I Grid S CONTAMINA	109 - 0000449 D	B&B CONTRA Volum	
Time In 11/18/2016 11:02: Out 11/18/2016 11:38: Comments HONEYWELL 9 53102 M26 TORCH LAKE	28 Scale SPECIALTY		Operator Thoreson Thoreson LLC	Inbound	Gross Tare Net Tons	152880 15 55480 15 97400 15 48.70
Product	LD%	City UC	M Rate	Tax	Amount	Origin
1 Asb Friable-Tons- 2 EVF-L-Standard En		48.70 To 1 Lo			otal Tax tal Ticket	Hougm I Hougm T
Dr409WMM, Signature						

VASTE SHIPMENT RE See Reverse for Instructions)							osal Site Use Only
1-A.Special Waste Profile Number	NESHAP Notified		WSR Number	- n.7.	000	Elevatio	n
ASB119468MI	YES	NO		.07\$	136	North	East
1-B. Generator Name, Contact Name,	and Complete Mailing Addre			Nak	1-C. C	lenerator's	Phone Number
HONEYWELL SPECIA	TY MATERIALS,	LLC 198	35 Dough	SDEN		71	3-954-5418
59192-WELL SPECIA		to Char	len Valle	> MN ·	\$54	122	
1-D. Work Site Address					1-E.2	4 Hour Em	ergency Response
HONEYWELL SPECIA 53102 M-28, TORCH 1	.AKE TWP, MI 4994		-				3-954-5418
2. Operator's Name and Complete Mai TERRA CONTRACTIN	-	, °,			Opera	tor's Phone	Number
PO BOX 127, BARK R		1				26	39-375-9595
3. Waste Disposal Site (WDS) Name a		5S	F. Mary		WDS	Phone Nun	
K&W LANDFILL		10.000		-ns	90	16-5	102E-E85
11877 M 38, ONTONA	GON, MI 49953		·	~			8-683-1776-
4. Name and Address of Responsible A	astas Pragrem	tateo	F Michie	Tuessa	jign?	Z Pro	roguarters
5. Description of Materials		194550	why Margi	setter	6. Con		7. Total Quantity
	Friable Àsb		U		No.	Type	yd3
friable asbestos		1. P 1. P 1	, Asbestos, 9, PGIII		11	7	40 43
non-friable asbestos		Cat I	Cat II				JQ ULT
Printed/Typed Name and Title	6/5. fe Level a	Signature		Honorme	I Spee	For Motorius	Date 11/29/16
10. Transporter 1 Company Name			Driver Signature				
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rein maining Address	- Jan ^e		22	10		State of the second	
	10012		Printed Name and Titl	e	<u>CAJ-4n</u>	here the second	
CAPUM CI Telephone Number (including area cod	1 4715	-	Ca149	Te	6,0	Ja	
908:337-0017		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Date // _ *	79.11	2	·····	
11. Transporter 2 Company Name			Driver Signature		and a second		
Vol: 1668136)						
Complete Mailing Address							
				5			
			Printed Name and Titl	e			
Telephone Number (including area cod	e)	1. 18 ¹ - 1	Date				
	· · ·						•
12. Discrepancy Indication Space							-
13. Waste Disposal Site Owner or Ope							
to, waste clisposal Site Owner or One		A A A A A A A A A A A A A A A A A A A	Constant of the second				
			eet évoont as notôd in	item 12			
Certification of receipt of	asbestos materials covered	<u> </u>	est except as noted in				
	lations (Signature	Chilly I	$\sim 1 \sim 1$	114 in Array		Date

WASTE MANAGEMENT

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K&W Landfill 11877 HWY 38 Ontonagon, MI, 49953 Ph: 906-883-3504

Customer Name TERRACONTRACT TERRA CON Ticket Date 11/29/2016 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest 107932 Destination PO Profile ASB119463MI (FRIABLE A Generator 136-HONEYWELLSPEC HONE	Vehicle# 109 Container Driver Check# Billing # 0 Gen EPA ID Brid SBESTOS CONTAMINATED	000449 SOTL)	ONTRACTING Volume
Time Scale In 11/29/2016 12:12:21 Scale	- Ethoreson		e 154530 lb 55 55660 lb
Out 11/29/2016 12:53:46 Scale	L.Thoreson	Net Tor	•
Comments HONEYWELL SPECIALTY MATE 53102 M25 TORCH LAKE TWP			
Product LD% Bty	UDM Rate	Так Апо	mt Origin
1 Asb Frisble-Tons-A 100 49. 2 EVF-L-Standard Env 100	46 Tons 1 Load	Eda	Hougmi Hougmi
	e		
		Tutal T Total T	
Driver's Signature 403WM-N			B

1997 - 19			4				
WASTE SHIPMENT REC (See Reverse for Instructions)	CORD/ASBE	STOS M	ANIFEST			For Dis	posal Site Use Only
1-A.Special Waste Profile Number	NESHAP Notified		WSR Number	and the second		Elevatio	Dā
ASB119468MI	YES	NO		1079	133	North_	East
1-B. Generator Name, Contact Name, an	I Id Complete Mailing Add	ress (includin	Zip Code)	1 ³ 6 1	1-C. C	enerator's	Phone Number
HONEYWELL SPECIAL 53402-11-20- FORCH-LA			10-132 N10-132	North Bul 55		. 7	63-954-5418 X
1-D. Work Site Address HONEYWELL SPECIAL 53102 M-26, TORCH LA	-	LLC	· · · · · · · · · · · · · · · · · · ·	· · · · · ·	1-E.2	elephone	nergency Response Number 63-954-5418
2. Operator's Name and Complete Mailin TERRA CONTRACTING			₹ <u></u>		Opera	tor's Phone	
PO BOX 127, BARK RIV						2	89-375-9595
3. Waste Disposal Site (WDS) Name and K&W LANDFILL 11877 M 38, ONTONAG	· · · -	988				-	83.3504
4. Name and Address of Responsible Ag Inductrial Division Ashes 5291.arayette RG N. St.	ency State	05 MI 90 US	Region +	US S.	M.	45 49	855
	iable Asb		0		6. Cont	ainers Type	7. Total Quantity
friable asbestos	-,************************************	RQ, NA221	2, Asbestos, 9, PGIII		1	Te	yd3
non-friable asbestos	<u> </u>	Cat I	Cat II			1	Do Intern
8. Special Handling Instructions and Addi 24 HOUR NOTICE GIVEN PR		IST BE BURI	ED .				00.6JTors
9. GENERATOR/OPERATOR'S CERTIFI ping name and are classified, packed, ma and government regulations. I hereby cert	irked, and labeled, and a	are in all respe	ects in proper condition for	or transport by	hidhway	according	ed above by proper ship- to applicable international
Printed/Typed Name and Title	Accort	Signature			en tre	b	Date
Knord Cuminghours, Clo	Here years 11 3		<u>Coite</u>	1-Still	yuse	11	12/1/16
10. Transporter 1 Company Name SEAS COMMAN	n	STATE HALLEN BROWN	Driver Signature	7			••
Complete Mailing Address	 A statistical sta				and the second se	· · · · · · · · · · · · · · · · · · ·	το του του του του του του του του του τ
55670 W-26				Harversen			· • •
CALUMET, NIT	49913		Printed Name and Title		iz. 1		****
Telephone Number (including area code)			Date 100 /1				
11. Transporter 2 Company Name	.17	~	((n))	6			
Complete Mailing Address			Driver Signature				
1 (1992) 							
· ***** * **	and the second se		Printed Name and Title			, <u></u>	
Telephone Number (including area code)			Date				
12. Discrepancy Indication Space							
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K&W Landfill 11877 HWY 33 Ontonagon, MI, 49953 Ph: 906-883-3504

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	2. Operator's Name and Complete Mailing Addre Terra Contracting Servic 5100 West Michigan Avenu Kalamazoo, MI 49006					itor's Phon 19-375-		
reperator	3. Waste Disposal Site (WDS) Name and Comple K&W Landfill 11877 State Highway M38, Ontonagon,					Phone Nue 5-883-35		
	4. Name and Address of Responsible Agency State of Michigan, Region 1 Headquerters 1990 US Highway 41 South South Marquette, MI 49855							
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APPENDIX E

Laboratory Analytical Results



2033 Heritage Park Dr, Oklahoma City, OK 73120 1.800.822.1650

Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272166
Date Received:	11/04/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/9/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161102	635.7	0	100	<7.00	<0.00423	0.00423	N/A	N/A
002	AB02-161102	342.3	0	100	<7.00	<0.00786	0.00786	N/A	N/A
003	AB03-161102	647.57	0	100	<7.00	<0.00415	0.00415	N/A	N/A
004	AB04-161102	1179.75	1	100	<7.00	<0.00228	0.00228	N/A	N/A
005	ABMU-161102	491.31	1	100	<7.00	<0.00548	0.00548	N/A	N/A
006	ABNP-161102	833.04	0	100	<7.00	< 0.00323	0.00323	N/A	N/A
007	FB01-161102	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161102	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

Contact	E Kurt L. Cunningr	Unningham, CPG Cell Phone: (517) 404-3582 Project Locat				Z Project Location:	Lak	el	Linde	n, MI			Emai				
Account	n #.		-		E-mail: kurt.cur	ningh	am@amecfw.	com Project ID:	329	31	16167	6	= 10		Othe	r	
Samp	LED BY: Name: Kurt L.	Cuni	ning	ham, CPG	Date: 11/2	2/16		P.O. Number:	C01	129	90434	40		-			
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2033 Heritage Park Dr, Oklahoma City, OK 73120 1.800.822.1650

Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272394
Date Received:	11/08/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/11/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project:Former Calumet Stamp MillLocation:Lake Linden MI

Project No.: 3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161103	768.92	1	100	<7.00	<0.00350	0.00350	N/A	N/A
002	AB02-161103	790	1	100	<7.00	<0.00341	0.00341	N/A	N/A
003	AB03-161103	1051.28	1	100	<7.00	<0.00256	0.00256	N/A	N/A
004	AB04-161103	388.62	0	100	<7.00	<0.00692	0.00692	N/A	N/A
005	ABMU-161103	1024.89	1	100	<7.00	<0.00262	0.00262	N/A	N/A
006	ABNP-161103	1410.38	1.5	100	<7.00	<0.00191	0.00191	N/A	N/A
007	FB01-161103	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161103	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

Contact: Nutt L. Curmingham, OF G				<u> </u>			
Account #:	E-mail: kurt.cunningham@ameciw.cor	n Project ID: 32931	61676		Other		
AMPLEO BY: Name: Kurt L. Cunningham, CP	G Date: 11/3/16	P.O. Number: C0129	904340			Γ	A
RELINQUISHED BY	DATE & TIME	VIA)	/ RECEIVED) BY	DATE & TIME	L.	10
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Particle ID NIOSH 7400	Waste Water	- EPA 600/4-83-043	Other		5-Day		1 25 . 10
No. Sample ID 🗹 To Be Color (10 Characters Max) Analyzed AB01-161103 🚺 CSMS-R		ription Air Sample	Volume / Area (as applicable) 768.92	1-1-1-	ts / Notes fibers identified on PCM.		19 192.28
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3 AB03-161103 🗹 CSMS-R		Air Sample	1051.28				
4 AB04-161103 🖌 CSMS-R		Air Sample	388.62				
5 ABMU-161103 🗹 CSMS-R	01- Perimeter	Air Sample	1024.89				
5 ABNP-161103 🖌 CSMS-R	01- Perimeter	Air Sample	1410.38		aller og e		
7 FB01-161103 🗹 CSMS-R	01- Field Blan	k (opened)	ere ere		5 A		
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2033 Heritage Park Dr, Oklahoma City, OK 73120 1.800.822.1650

Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272392
Date Received:	11/08/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/11/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project:Former Calumet Stamp MillLocation:Lake Linden MI

Project No.: 3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161104	1487.32	2	100	<7.00	<0.00181	0.00181	N/A	N/A
002	AB02-161104	437.72	0	100	<7.00	<0.00615	0.00615	N/A	N/A
003	AB03-161104	1035.25	4	100	<7.00	<0.00260	0.00260	N/A	N/A
004	AB04-161104	361.68	1	100	<7.00	<0.00744	0.00744	N/A	N/A
005	ABMU-161104	1173.41	1.5	100	<7.00	<0.00229	0.00229	N/A	N/A
006	ABNP-161104	819.95	3	100	<7.00	<0.00328	0.00328	N/A	N/A
007	FB01-161104	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161104	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

Contact: KUTL. UUNNINGN	unii oi o	Cell Phone: (017)4	104-308Z Project Location:			<u></u>				
Account #:		E-mail: kurt.cunningham	n@amecfw.com Project ID:	32931	61676		Othe	ŕ		
SAMPLED BY: Name: KUIT L. C	Cunningham, CPG	Date: 11/4/16	P.O. Number:	C0129	904340	Called at the				
RELINQUISHED BY DATE & TIME			VIA	RECEIVED BY				DATE & TIME	3-	
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400 Point Count	(EPA 600/R-04/00		Air-NIOSH 7402		Bulk-Quantitative (weigh	nt%)- Chatfield		Same Day		
1000 Point Count			Air- ISO 10312		Dust-Presence / Absence			24 - Hour		
			Drinking Water- EPA 100.2		Dust-Quantitative [fibers	s/sq.cm]- ASTM D5755	$\overline{\mathbf{A}}$	3 - Day		
Gravimetric Preparation	PCM][
Gravimetric Preparation Particle ID	PCM		Waste Water- EPA 600/4-83-043		Other			5 - Day		
Particle ID No. Sample ID						Comment		5 - Day		
Particle ID No. Sample ID	To Be Color		Waste Water- EPA 600/4-83-043		Other Volume / Area	Comment Only analyze with TEM if	<u></u> ts / N	5 - Day otes		
Particle ID No. Sample ID (10 Characters Max) A	To Be Color nalyzed	- 412	Waste Water- EPA 600/4-83-043 Description		Other Volume / Area (as applicable)		ts / N fibers	5 - Day otes identified on PCM.		
Particle ID No. Sample ID (10 Characters Max) A 1 AB01-161104	Image: Nilosh 7400 To Be nalyzed Image: Color color Image: CSMS-R01	- <u>412</u> - 412	Waste Water- EPA 600/4-83-043 Description 2 minutes at 3.61 lpm	X. 5	Other Volume / Area (as applicable) 1487.32	Only analyze with TEM if	ts / N fibers	5 - Day otes identified on PCM. liters.		
Particle ID No. Sample ID (10 Characters Max) AI AB01-161104 AB02-161104	Image: Nilosh 7400 To Be nalyzed Color Image: Color Color I	- 412 - 411 - 411 - 411	Waste Water- EPA 600/4-83-043 Description 2 minutes at 3.61 lpm 1 minutes at 1.07 lpm		Other Volume / Area (as applicable) 1487.32 437.72	Only analyze with TEM if	fibers re in	5 - Day otes identified on PCM. liters.		
Particle ID No. Sample ID (10 Characters Max) F 1 AB01-161104 F 2 AB02-161104 AB03-161104	Image: Nilosh 7400 To Be nalyzed Color Image: CSMS-R01 Image: CSMS-R01 Image: CSMS-R01 Image: CSMS-R01 Image: CSMS-R01	- 412 - 412 - 41 - 41(- 41)	Waste Water- EPA 600/4-83-043 Description 2 minutes at 3.61 lpm 1 minutes at 1.07 lpm 0 minutes at 2.53 lpm		Other Volume / Area (as applicable) 1487.32 437.72 1035.25	Only analyze with TEM if	fibers re in	5 - Day otes identified on PCM. liters.		
Particle ID No. Sample ID (10 Characters Max) A 1 AB01-161104 A 2 AB02-161104 A 3 AB03-161104 A 4 AB04-161104 A	Image: Nilosh 7400 To Be nalyzed Color Image: CSMS-R01	- 412 - 412 - 411 - 41(- 411 - 411	Waste Water- EPA 600/4-83-043 Description 2 minutes at 3.61 lpm 1 minutes at 1.07 lpm 0 minutes at 2.53 lpm 1 minutes at 0.88 lpm		Other Volume / Area (as applicable) 1487.32 437.72 1035.25 361.68 1173.41	Only analyze with TEM if	fibers re in	5 - Day otes identified on PCM. liters.		
Particle ID No. Sample ID (10 Characters Max) 1 AB01-161104 2 AB02-161104 3 AB03-161104 4 AB04-161104 5 ABMU-161104	✓ NIOSH 7400 To Be nalyzed Color ✓ CSMS-R01	- 412 - 412 - 414 - 414 - 414 - 414 - 414	Waste Water- EPA 600/4-83-043 Description 2 minutes at 3.61 lpm 1 minutes at 1.07 lpm 0 minutes at 2.53 lpm 1 minutes at 0.88 lpm 1 minutes at 2.86 lpm		Other Volume / Area (as applicable) 1487.32 437.72 1035.25 361.68 1173.41	Only analyze with TEM if	fibers re in	5 - Day otes identified on PCM. liters.		
Particle ID No. Sample ID (10 Characters Max) F 1 AB01-161104 F 2 AB02-161104 F 3 AB03-161104 F 4 AB04-161104 F 5 ABMU-161104 F 6 ABNP-161104 F	Image: Nilosh 7400 To Be nalyzed Color Image: CSMS-R01	- 412 - 412 - 411 - 411 - 411 - 411 - 411 - 411 - 5	Waste Water- EPA 600/4-83-043 Description 2 minutes at 3.61 lpm 1 minutes at 1.07 lpm 0 minutes at 2.53 lpm 1 minutes at 0.88 lpm 1 minutes at 2.86 lpm 1 minutes at 2.00 lpm		Other Volume / Area (as applicable) 1487.32 437.72 1035.25 361.68 1173.41	Only analyze with TEM if	fibers re in	5 - Day otes identified on PCM. liters.		
Particle ID No. Sample ID (10 Characters Max) Particle ID 1 AB01-161104 Particle ID Particle ID 2 AB01-161104 Particle ID Particle ID Particle ID 1 AB01-161104 Particle ID Particle ID	Image: Wilder Milder	- 412 - 412 - 411 - 411 - 411 - 411 - 411 - 411 - 5	Waste Water- EPA 600/4-83-043 Description 2 minutes at 3.61 lpm 1 minutes at 1.07 lpm 0 minutes at 2.53 lpm 1 minutes at 2.86 lpm 1 minutes at 2.86 lpm 1 minutes at 2.00 lpm ield Blank (opened) Field Blank (closed)		Other Volume / Area (as applicable) 1487.32 437.72 1035.25 361.68 1173.41	Only analyze with TEM if	fibers re in	5 - Day otes identified on PCM. liters.		

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272483
Date Received:	11/09/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/14/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161105	475.94	1	100	<7.00	<0.00565	0.00565	N/A	N/A
002	AB02-161105	807.29	2	100	<7.00	<0.00333	0.00333	N/A	N/A
003	AB03-161105	870.43	4	100	<7.00	<0.00309	0.00309	N/A	N/A
004	AB04-161105	1129.76	3	100	<7.00	<0.00238	0.00238	N/A	N/A
005	ABMU-161105	1634.88	3	100	<7.00	<0.00165	0.00165	N/A	N/A
006	ABNP-161105	1280.84	3	100	<7.00	<0.00210	0.00210	N/A	N/A
007	FB01-161105	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161105	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

	UILE. GUIHIHIGHAHI, OFO CEIPPIONE: (JT/) 404-3302 Project to canon: Lake Linden, IVI												
count #		E-mail; kurt.cur	nningham@a	mecfw.com	Project ID: 32	93	1617(07	[Ot	her		
MPLED BY: Name: Kurt L. Cunn	ingham, CPG	Date: 11/5	5/16		PO. Number: C)12	9043	40	~				
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400 Point Count	Other		Air	- NIOSH 7402	2	Bulk- Quantitative (weight%)- Chatfield				Same Day			
1000 Point Count				- ISO 10312		Dust- Presence / Absence				24-Hour			
Gravimetric Preparation				Drinking Water- EPA 100.2 Waste Water- EPA 600/4-83-043			Dust- Quantitative (fibers/sq.cm)- ASTM D5755				3 - Day		
Particle ID	✓ NIOSH 7400		Wa	aste Water- El	PA 600/4-83-043	L	Othe	r			S - Day		
o. Sample ID 🗹 To B (10 Characters Max) Analyze				Descrip	otion		1	Volume / Area (as applicable)	Comr	nents /	Notes		
AB01-161105	CSMS-R01-		449 r	minutes a	at 1.06 lpm			475.94	Only analyze with TE	EM if fib	ers identified on PCM.		
2 AB02-161105	CSMS-R01		451 r	minutes a	at 1. 79 l pm		-	807.29	Volume	es are	in liters.		
AB03-161105	CSMS-R01		<mark>451</mark> r	minutes a	at 1.93 lpm			870.43		21			
+ AB04-161105	CSMS-R01		451 r	minutes a	at 2.51 lpm			1129.76			- ⁵ (#)		
5 ABMU-161105	CSMS-R01		451 r	minutes	at 3.63 lpm		1	1634.88		0			
5 ABNP-161105	CSMS-R01		451 r	minutes	at 2.84 lpm		6	1280.84					
7 FB01-161105	CSMS-R01		Fie	ld Blank	(opened)		÷.	8					
3 FB02-161105	CSMS-R01		Fie	eid Blank	(closed)		20 20	17.					
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272481
Date Received:	11/09/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/14/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161107	852.25	1	100	<7.00	<0.00316	0.00316	N/A	N/A
002	AB02-161107	922.32	3	100	<7.00	<0.00292	0.00292	N/A	N/A
003	AB03-161107	512.4	2	100	<7.00	< 0.00525	0.00525	N/A	N/A
004	AB04-161107	1159.06	2.5	100	<7.00	<0.00232	0.00232	N/A	N/A
005	ABMU-161107	1760.51	3	100	<7.00	< 0.00153	0.00153	N/A	N/A
006	ABNP-161107	1395.26	4	100	<7.00	<0.00193	0.00193	N/A	N/A
007	FB01-161107	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161107	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

	ad: Auri L. Gunningham, Gro		Cell Phone: (017)40	10002 110		e Linden, wi				
iccount #			E-mail: kurt.cunningham@	amectw.com Proj	ect ID: 329	3161707		Other		
SAMPLED BY: Name: K	(urt L. Cunnir	ngham, CPG	Date: 11/7/16	PO	Number: CO1	2904340				
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400 Point Count		Other	A	vir- NIOSH 7402		Bulk-Quantitative (weight	t%)-Chatfield	Same Day		A.S.os
1000 Point Count			A	Air- ISO 10312		Dust-Presence / Absence	1	24 - Hour		11
	tian	PCM		Drinking Water- EPA	100.2	Dust-Quantitative fibers/	/sq.cm]- ASTM DS755	√ 3-Day		
Gravimetric Prepara		PQW								
Gravimetric Prepara Particle ID		NIOSH 7400		Waste Water- EPA 60		Other	7	5 - Day		
	D I To Be	NIOSH 7400 Color		-	00/4-83-043	Other Volume / Area (as applicable)	Commer			
Particle ID No. Sample ID) 🗹 To Be Max) Analyzec	NIOSH 7400 Color		Waste Water- EPA 60	00/4-83-043	Volume / Area (as applicable)		5 - Day	and and a second	
Particle ID No. Sample ID (10 Characters	Max) Analyzec	NIOSH 7400 Color	487	Waste Water- EPA 60 Descriptio	00/4-83-043 n .78 lpm	Volume / Area (as applicable)	Only analyze with TEM	5 - Day	ara M	
Particle ID No. Sample ID (10 Characters AB01-1611	0 Ø To Be Max) Analyzec 107 Ø 107 Ø	Color CSMS-R01-	487	Waste Water- EPA 60 Descriptio minutes at 1	00/4-83-043	Volume / Area (as applicable) 852.25	Only analyze with TEM	if fibers identified on PCM.	and and a second s	
Particle ID No. Sample ID (10 Characters AB01-1611 AB02-1611	Imax Imax <t< td=""><td>Color CSMS-R01- CSMS-R01-</td><td>487 488 488</td><td>Vaste Water- EPA 60 Descriptio minutes at 1 minutes at 1</td><td>00/4-83-043</td><td>Volume / Area (as applicable) 852.25 922.32</td><td>Only analyze with TEM</td><td>if fibers identified on PCM.</td><td></td><td></td></t<>	Color CSMS-R01- CSMS-R01-	487 488 488	Vaste Water- EPA 60 Descriptio minutes at 1 minutes at 1	00/4-83-043	Volume / Area (as applicable) 852.25 922.32	Only analyze with TEM	if fibers identified on PCM.		
Particle ID No. Sample ID (10 Characters AB01-1611 AB02-1611 AB03-1611	Imax	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	487 488 488 488 487	Waste Water- EPA 60 Descriptio minutes at 1 minutes at 1 minutes at 1	00/4-83-043 n .78 lpm .89 lpm .05 lpm 2.38 lpm	Volume / Area (as applicable) 852.25 922.32 512.40	Only analyze with TEM	if fibers identified on PCM.		
Particle ID No. Sample ID (10 Characters AB01-1611 AB02-1611 AB03-1611 AB04-1611	Imax	NIOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	487 488 488 488 487	Waste Water- EPA 60 Descriptio minutes at 1 minutes at 1 minutes at 1 minutes at 2	00/4-83-043 n .78 lpm .89 lpm .05 lpm 2.38 lpm 3.62 lpm	Volume / Area (as applicable) 852.25 922.32 512.40 1159.06	Only analyze with TEM	if fibers identified on PCM.		
Particle ID No. Sample ID 110 Characters AB01-1611 AB02-1611 AB03-1611 AB03-1611 AB04-1611 AB04-1611 ABMU-1611	Imax	NIOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	487 488 488 488 487 487 487	Waste Water- EPA 60 Descriptio minutes at 1 minutes at 1 minutes at 1 minutes at 2 minutes at 2	00/4-83-043 n .78 lpm .89 lpm .05 lpm 2.38 lpm 3.62 lpm 2.87 lpm	Volume / Area (as applicable) 852.25 922.32 512.40 1159.06 1760.51	Only analyze with TEM	5 - Day nts / Notes if fibers identified on PCM. are in liters.		
Particle ID No. Sample ID (10 Characters) AB01-1611 AB02-1611 AB03-1611 AB04-1611 AB04-1611 ABNP-161	Imax	NIOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	487 488 488 488 487 487 487 5	Waste Water- EPA 60 Descriptio minutes at 1 minutes at 1 minutes at 1 minutes at 2 minutes at 2 minutes at 2 minutes at 2	00/4-83-043 n .78 lpm .89 lpm .05 lpm 2.38 lpm 3.62 lpm 2.87 lpm bened)	Volume / Area (as applicable) 852.25 922.32 512.40 1159.06 1760.51	Only analyze with TEM	5 - Day nts / Notes if fibers identified on PCM. are in liters.		
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272589
Date Received:	11/10/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/14/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161108	502.44	2	100	<7.00	<0.00535	0.00535	N/A	N/A
002	AB02-161108	1404.2	1	100	<7.00	<0.00192	0.00192	N/A	N/A
003	AB03-161108	1762.52	1	100	<7.00	< 0.00153	0.00153	N/A	N/A
004	AB04-161108	896.25	0	100	<7.00	<0.00300	0.00300	N/A	N/A
005	ABMU-161108	901.53	1	100	<7.00	<0.00298	0.00298	N/A	N/A
006	ABNP-161108	1125.754	1	100	<7.00	<0.00239	0.00239	N/A	N/A
007	FB01-161108	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161108	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Contact	Kurt L. Cunningham, CPG	Lett Phone:	(017) 404-002 Project Location:	Lake Linden, Mi		
Account	t	E-mail: kurt.e	cunningham@amecfw.com Project ID:	3293161707	Other	
SAMPL	ED BY: Name: Kurt L. Cunningh	am, CPG Date: 11	/8/16 P.O. Number:	C012904340		·
X	RELINQUISHED BY	DATE	TIME VIA) 2 RECEIVED BY	DATE & TIME	
2	alla la	11/9/16	1700 FedEx	KGraley	11/10/16 10:	
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	Ē	REQUES	TED SERVICES (Please 🗹 the A	ppropriate Boxes)		21 10 10 10 10 10 10 10 10 10 10 10 10 10
	PLM	PLM	TEM	TEM	TURNAROUND TIME	
		ermiculite Attic Insulation PA 600/R-04/004)	Air- AHERA	Bulk-Presence / Absence EPA600/R-93/116	Rush	A THE ST. No.
	400 Point Count	ther	Air- NIOSH 7402	Bulk- Quantitative [weight%]- Chatfield	Same Day	
	1000 Point Count		Air- ISO 10312	Dust- Presence / Absence	24 - Hour	
	Gravimetric Preparation	PCM	Drinking Water- EPA 100.2	Dust-Quantitative [fibers/sq.cm]- ASTM D57	ss 🖌 3-Day	
	Particle ID N	IOSH 7400	Waste Water- EPA 600/4-83-043	Other	5 - Day	
No.	Sample ID 🗹 To Be (10 Characters Max) Analyzed	Color	Description	Volume / Area C (as applicable)	omments / Notes	
1	AB01-161108	CSMS-R01-	474 minutes at 1.06 lpm	502.44 Only analyze wi	th TEM if fibers identified on PCM.	-
2	AB02-161108	CSMS-R01-	476 minutes at 2.95 lpm	1404.20 Vol	umes are in liters.	
3	AB03-161108 🚺 (CSMS-R01-	477 minutes at 3.70 lpm	1762.52		
4	AB04-161108 🗹 (CSMS-R01-	478 minutes at 1.88 lpm	896.25		ALC: 2010年1月1日 - 11月1日 - 11月1日
5	ABMU-161108 🖌 (CSMS-R01-	477 minutes at 1.89 lpm	901.53		
ś	ABNP-161108 0	CSMS-R01-	474 minutes at 2.38 lpm	1125.754		
7	FB01-161108	CSMS-R01-	Field Blank (opened)	1997 - B. 1998 - 1988 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 19		
3	FB02-161108	CSMS-R01-	Field Blank (closed)		~	
9						
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272586
Date Received:	11/10/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/14/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161108	347.8	1	100	<7.00	<0.00773	0.00773	N/A	N/A
002	AB02-161108	1370.05	1	100	<7.00	<0.00196	0.00196	N/A	N/A
003	AB03-161108	867.65	2	100	<7.00	<0.00310	0.00310	N/A	N/A
004	AB04-161108	1050.83	4.5	100	<7.00	<0.00256	0.00256	N/A	N/A
005	ABMU-161108	1025.33	2	100	<7.00	<0.00262	0.00262	N/A	N/A
006	ABNP-161108	1719.9	3	100	<7.00	<0.00156	0.00156	N/A	N/A
007	FB01-161108	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161108	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

	act: Kurr L. Curringnam, CPG CellPhone: (317) 404-3362			Project Location						
lccount #:			E-mail: kurt.cur	nningham@amecfw.com Project ID:	32931	51707	Oth Oth	er		
AMPLED BY: Name: KU	rt L. Cunn	ingham, CPG	Date: 11/9)/16 P.O. Number:	C0129	04340				
RELIN	QUISHED B		DATE &	TIME VIA		RECEIVED BY		DATE & TIME	Lab No.	27258
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			REOUESTE	ED SERVICES (Please 🗹 the /	\opropri	ite Boxes)				
PLM					TEM	 TL	RNAROUND TIME			
	Bulk Analysis (EPA 600/R-93/116) Vermiculite Attic Insul			Air-AHERA		Bulk-Presence / Absence EPA600/R-93/11		Rush		
400 Point Count	Point Count [EPA 600/R-04/004]			Bulk- Quantitative (weight%)- Chatfield		Same Day		10 Del		
1000 Point Count				Dust-Presence / Absence		24 - Hour				
Gravimetric Preparatio	n 🐻	PCM		Drinking Water- EPA 100.2		Dust- Quantitative [fibers/sq.cm]- ASTM [05755	3 - Day		
Particle ID		NIOSH 7400		Waste Water- EPA 600/4-83-04		Other		5 - Day		
No. Sample ID (10 Characters Ma	☑ To B x) Analyze			Description		Volume / Area (as applicable)	Comments /	Notes		
1 AB01-16110	3	CSMS-R01-	11	470 minutes at 0.74 lpm	ì	347.8 Only analyze	with TEM if fiber	s identified on PCM.		
AB02-16110	3	CSMS-R01-		470 minutes at 2.92 lpm		1370.05 V	/olumes are i	n liters.		
3 AB03-16110	3 🗸	CSMS-R01-		469 minutes at 1.85 lpm		867.65		2. 8		
4 AB04-16110	3 🗸	CSMS-R01-	5	466 minutes at 2.26 lpm	ļ	1050.83			and the second second second	- Constanting to
5 ABMU-16110	8	CSMS-R01-		465 minutes at 2.21 lpm		1025.33		7.		
	8 🖌	CSMS-R01-	100	468 minutes at 3.68 lpm		1719.90				
6 ABNP-16110	0 1		4							
		CSMS-R01-	5.7	Field Blank (opened)						
6 ABNP-16110	3 🔽		1878	Field Blank (opened) Field Blank (closed)	-					
6 ABNP-16110 7 FB01-16110	3	CSMS-R01-	1878		_		-			

Please Note - UPS and USPS are NOT available for Saturday Delivery alay below?



Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272664
Date Received:	11/14/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/14/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161110	884.47	6	100	7.01	0.00305	0.00304	0.00113	0.00746
002	AB02-161110	1188.07	6	100	7.01	0.00227	0.00226	0.000840	0.00556
003	AB03-161110	1406.4	6	100	7.01	0.00192	0.00191	0.000710	0.00469
004	AB04-161110	1798.65	7	100	8.28	0.00177	0.00150	0.000710	0.00415
005	ABMU-161110	1001.413	6	100	7.01	0.00269	0.00269	0.000997	0.00659
006	ABNP-161110	108.3	7	100	8.28	0.0294	0.0248	0.0118	0.0689
007	FB01-161110	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161110	Blank	1	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

	Rait L. Cummingham, C			1, 101-0002	Hoject tocation.]t				
lccou	nt #:		E-mail: kurt cunningham@amecfw.com Project ID: 3293161707						0the	r		
AMP	PLED BY: Name: Kurt L. Cunnii	ngham, CPG	Date: 11/10/16 PO. Number: C012904340									1
1	RELINQUISHED BY		DATE & TIME VIA			RECEIVED BY				DATE & TIME	a damage	
						K	maley	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1/4/16 10	3	
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_	PLM	PLM		TE	M		TEM	1.45	TUR	NAROUND TIME		
	Bulk Analysis (EPA 600/R-93/116)	Vermiculite Attic in (EPA 600/R-04/004		Air- AHERA		Bu	ilk-Presence / Absence EP	A600/R-93/116		Rush	100	
	400 Point Count	Other		Air-NIOSH 74	02	Bu	lk-Quantitative [weight%	- Chatfield		Same Day	10 MP 1	100
	1000 Point Count	┛╎ <u></u> ,		Air-ISO 10312	_	Du	ust-Presence / Absence			24 - Hour		
	Gravimetric Preparation	PCM		Drinking Wate	er- EPA 100.2	D	ust-Quantitative (fibers/so	.cm)- ASTM D5755	₩	3 Day -		
14	Dentida ID											
	Particle ID	NIOSH 7400		Waste Water-	EPA 600/4-83-043	0	ther			5 - Day		-
10.	Sample ID I To Be (10 Characters Max) Analyzec	Color		Waste Water- Descri	11	0	volume / Area (as applicable)	Com	ments / N		P	
Vo.	Sample ID I To Be (10 Characters Max) Analyzec AB01-161110	Color			ption		Volume / Area (as applicable)		ments / N		P	
1 1 2	Sample ID I To Be (10 Characters Max) Analyzec	Color		Descri	ption at 1.84 lpm	01	Volume / Area (as applicable)	nly analyze with TI	ments / N	lotes identified on PCM.		
No. 1 2 3	Sample ID I To Be (10 Characters Max) Analyzec AB01-161110	Color CSMS-R01-	<u></u>	Descri 482 minutes	ption at 1.84 lpm at 2.47 lpm		Volume / Area (as applicable) 884.47 O	nly analyze with TI	ments / N EM if fibers	lotes identified on PCM.		
1	Sample ID IT To Be (10 Characters Max) Analyzed AB01-161110 I AB02-161110 I	Color CSMS-R01- CSMS-R01-		Descri 482 minutes 481 minutes	ption at 1.84 lpm at 2.47 lpm at 2.93 lpm		Volume / Area (as applicable) 884.47 1188.07	nly analyze with TI	ments / N EM if fibers	lotes identified on PCM.	E ALENE	
1	Sample ID To Be (10 Characters Max) Analyzed AB01-161110 AB02-161110 AB03-161110	Color CSMS-R01- CSMS-R01- CSMS-R01-		Descri 482 minutes 481 minutes 480 minutes	ption at 1.84 lpm at 2.47 lpm at 2.93 lpm at 3.76 lpm		Volume / Area (as applicable) 884.47 0 1188.07 1406.40	nly analyze with TI	ments / N EM if fibers	lotes identified on PCM.		
1 2 3 4	Sample ID ☑ To Be (10 Characters Max) Analyzed AB01-161110 ✓ AB02-161110 ✓ AB03-161110 ✓ AB04-161110 ✓	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-		Descri 482 minutes 481 minutes 480 minutes 479 minutes	ption at 1.84 lpm at 2.47 lpm at 2.93 lpm at 3.76 lpm at 2.10 lpm		Volume / Area (as applicable) 884.47 0 1188.07 1406.40 1798.65	nly analyze with TI	ments / N EM if fibers	lotes identified on PCM.	₽ 	
1 2 3 4 5 3	Sample ID (10 Characters Max) ☑ To Be Analyzed AB01-161110 ✓ AB02-161110 ✓ AB03-161110 ✓ AB04-161110 ✓ ABMU-161110 ✓	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-		Descri 482 minutes 481 minutes 480 minutes 479 minutes 478 minutes	ption at 1.84 lpm at 2.47 lpm at 2.93 lpm at 3.76 lpm at 2.10 lpm at 2.11 lpm		Volume / Area (as applicable) 884.47 0 1188.07 1 1406.40 1798.65 1001.413 0	nly analyze with TI	ments / N EM if fibers	lotes identified on PCM. liters.		
1 2 3 4 5 3	Sample ID (10 Characters Max) ☑ To Be Analyzed AB01-161110 ☑ AB02-161110 ☑ AB03-161110 ☑ AB04-161110 ☑ AB04-161110 ☑ ABNP-161110 ☑	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-		Descri 482 minutes 481 minutes 480 minutes 479 minutes 478 minutes 479 minutes	ption at 1.84 lpm at 2.47 lpm at 2.93 lpm at 3.76 lpm at 2.10 lpm at 2.11 lpm c (opened)		Volume / Area (as applicable) 884.47 0 1188.07 1406.40 1798.65 1001.413 108.30 1	nly analyze with TI	ments / N EM if fibers es are in	lotes identified on PCM. liters.		
4 5 5 7	Sample ID I To Be (10 Characters Max) Analyzed AB01-161110 I AB02-161110 I AB03-161110 I AB04-161110 I ABMU-161110 I ABMU-161110 I FB01-161110 I	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-		Descri 482 minutes 481 minutes 480 minutes 479 minutes 478 minutes 479 minutes Field Blank	ption at 1.84 lpm at 2.47 lpm at 2.93 lpm at 3.76 lpm at 2.10 lpm at 2.11 lpm c (opened)		Volume / Area (as applicable) 884.47 0 1188.07 1 1406.40 1 1798.65 1001.413 108.30 1	nly analyze with TI	ments / N EM if fibers es are in	lotes identified on PCM. liters.		

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272658
Date Received:	11/14/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/14/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project:Former Calumet Stamp Mill**Location:**Lake Linden, MI.

Project No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161111	758.78	0	100	<7.00	<0.00355	0.00355	N/A	N/A
002	AB02-161111	933.18	0	100	<7.00	<0.00288	0.00288	N/A	N/A
003	AB03-161111	858.44	3	100	<7.00	<0.00313	0.00313	N/A	N/A
004	AB04-161111	486.98	2	100	<7.00	< 0.00552	0.00552	N/A	N/A
005	ABMU-161111	1701.02	1	100	<7.00	<0.00158	0.00158	N/A	N/A
006	ABNP-161111	1381.65	0	100	<7.00	<0.00195	0.00195	N/A	N/A
007	FB01-161111	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161111	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

ontact: Kl	un L. Cunningham,	CPG								
ccount #:				jham@amecfw.com	Project ID:	32931	61707		Other	
AMPLED BY:	Name: Kurt L. Cun	ningham, CPG	Date: 11/11/	ate: 11/11/16 PO.Number: C012904340						
	RELINQUISHED	BY	DATE & TIN	TIME VIA			RECEIV	ED BY	DATE & TIME	
Anni	Keever	11/11/16	17:00 Fede		Ki	Braley		11/14/16 10	30	
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	9 ⁷¹ 6		REQUESTED	SERVICES (Ple	ase 🗹 the Ap	propri	ate Boxes)	3 5 606	Æ	
10	PLM	PLM		TEN	1		TE	М	TURNAROUND TIME	
	nalysis (EPA 600/R-93/116)	Vermiculite Attic in (EPA 600/R-04/004		Air- AHERA	-		Bulk-Presence / Absence		11000	
400 Point Count Other				Air- NIOSH 740	2		Bulk-Quantitative (weig	11		19 ¹⁰ - 192
J	oint Count			Air-ISO 10312			Dust-Presence / Absence		Hour	
Gravime Particle	netric Preparation	PCM		Drinking Water	- EPA 100.2 PA 600/4-83-043		Dust-Quantitative (fiber Other	s/sq.cm]- ASTM D5755	- Day 5 - Day	
(10 (Sample ID Ø To Characters Max) Analy 801-161111 Ø	zed		Descrip 453 minutes			Volume / Area (as applicable) 758.78		nts / Notes if fibers identified on PCM.	Same Day
-	302-161111			453 minutes			933.18		are in liters.	
AB	303-161111			453 minutes	at 1.90 lpm		858.44			
AB	304-161111	CSMS-R01	-	453 minutes	at 1.08 lpm		486.98		54	
AB	IMU-161111	CSMS-R01	-	453 minutes	at 3.76 lpm		1701.02		_	
10				AEQ minutes	40.40	Ξ.	1381.65			
	3NP-161111	CSMS-R01	- 1	453 minutes	at 3.13 ipm					
6 AB	BNP-161111	<u></u>		453 minutes Field Blank		(0)				
6 AB 7 FB] CSMS-R01	(jk) %		(opened)	-		с		
6 AB 7 FB	301-161111] CSMS-R01	(jk) %	Field Blank	(opened) (closed)			с		

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272884
Date Received:	11/17/16
Received By:	Peyton Awbrey
Analyst:	Leigh Armstrong
Date of Report:	11/18/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161112	998.08	2	100	<7.00	<0.00270	0.00270	N/A	N/A
002	AB02-161112	1077.6	3	100	<7.00	< 0.00250	0.00250	N/A	N/A
003	AB03-161112	1154.4	5	100	<7.00	<0.00233	0.00233	N/A	N/A
004	AB04-161112	1471.2	3	100	<7.00	<0.00183	0.00183	N/A	N/A
005	ABMU-161112	1747.2	2	100	<7.00	<0.00154	0.00154	N/A	N/A
006	ABNP-161112	1173.6	4	100	<7.00	<0.00229	0.00229	N/A	N/A
007	FB01-161112	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161112	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

		Cell Phone: (017) 404-3002 Project Location: CARE LITUETI, IVI							<u> </u>					
Account #:		E-mail: kurt.cunningham@amecfw.com Project ID: 3293161707						Oth	er					
SAMPLED BY: Name: Ari MC	cKeever	TEM	Date: 11/12/16 P.O. Nun				łumber: C012904340							-
RELINQU	ISHED BY		DATE & TIME		VIA	IA RECEIVED BY		ED BY	DATE & TIME					
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PLM	PLM			TEI	M		TE		TU	RNAROUND TIME		- 363		
Bulk Analysis (EPA 600/R-93	3/116)	Vermiculite Attic In			Air- AHERA	1100		Bulk-Presence / Absence	te EPA600/R-93/116		Rush			
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1000 Point Count				- 🗌	Air-150 10312			Dust-Presence / Absen	ce		24 - Hour	8 1		
Gravimetric Preparation		PCM			Drinking Wate	IF- EPA 100.2		Dust-Quantitative [fibe	rs/sq.cm]- ASTM D5755		3 - Day	U		
								Other			1 D			
Particle ID	I	NIOSH 7400			Waste Water- E	EPA 600/4-83-043		Viner			5 - Day			
	☑ To Be Analyzed	Color			Waste Water- E Descri	_		Volume / Area (as applicable)		iments /		Eur Alt		5
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No. Sample ID (10 Characters Max) 1 AB01-161112	☑ To Be Analyzed	Color CSMS-R01-		48	Descri 1 minutes 0 minutes	ption at 2.08 lpm		Volume / Area (as applicable) 998.08	Only analyze with 1	iments /	Notes sidentified on PCM.		E	
No. Sample ID (10 Characters Max) 1 AB01-161112 2 AB02-161112	☑ To Be Analyzed	Color CSMS-R01- CSMS-R01-		48 48	Descri 1 minutes 0 minutes 0 minutes	ption at 2.08 lpm at 2.25 lpm		Volume / Area (as applicable) 998.08 1077.60	Only analyze with 1	iments /	Notes sidentified on PCM. n liters.		E	
No. Sample ID (10 Characters Max) 1 AB01-161112 2 AB02-161112 3 AB03-161112	☑ To Be Analyzed	Color CSMS-R01- CSMS-R01- CSMS-R01-		48 48 48	Descrip 1 minutes 0 minutes 0 minutes 0 minutes	ption at 2.08 lpm at 2.25 lpm at 2.41 lpm		Volume / Area (as applicable) 998.08 1077.60 1154.40	Only analyze with 1	TEM if fiber	Notes sidentified on PCM. n liters.			
No. Sample ID (10 Characters Max) 1 AB01-161112 2 AB02-161112 3 AB03-161112 4 AB04-161112	I To Be Analyzed ✓ ✓	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-		48 48 48 48	Descrip 1 minutes 0 minutes 0 minutes 0 minutes 0 minutes	ption at 2.08 lpm at 2.25 lpm at 2.41 lpm at 3.07 lpm		Volume / Area (as applicable) 998.08 1077.60 1154.40 1471.20	Only analyze with 1	TEM if fiber	Notes sidentified on PCM. n liters.			
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No. Sample ID (10 Characters Max) 1 AB01-161112 2 AB02-161112 3 AB03-161112 4 AB04-161112 5 ABMU-161112 5 ABNP-161112 7 FB01-161112	I To Be Analyzed I I I I I I I I I I I I I I I I I I I	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-		48 48 48 48 48 48 F	Descri 1 minutes 0 minutes 0 minutes 0 minutes 0 minutes 0 minutes 1 minutes 1 minutes	ption at 2.08 lpm at 2.25 lpm at 2.41 lpm at 3.07 lpm at 3.64 lpm at 2.45 lpm at 2.45 lpm		Volume / Area (as applicable) 998.08 1077.60 1154.40 1471.20 1747.20	Only analyze with 1	TEM if fiber	Notes s identified on PCM. n liters.			

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272885
Date Received:	11/17/16
Received By:	Peyton Awbrey
Analyst:	Leigh Armstrong
Date of Report:	11/18/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161114	1440.21	2	100	<7.00	<0.00187	0.00187	N/A	N/A
002	AB02-161114	944.72	3	100	<7.00	<0.00285	0.00285	N/A	N/A
003	AB03-161114	1100.33	5	100	<7.00	<0.00244	0.00244	N/A	N/A
004	AB04-161114	1118.26	0.5	100	<7.00	<0.00241	0.00241	N/A	N/A
005	ABMU-161114	1705.4	0	100	<7.00	<0.00158	0.00158	N/A	N/A
006	ABNP-161114	1035.34	0	100	<7.00	<0.00260	0.00260	N/A	N/A
007	FB01-161114	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161114	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Accou	int #:		E-mail: kurt.cunningham@amecfw.com Project ID: 3293161676							
Sam	P ED BY: Name: Ari MC	keever	T	Date: 11/14/2016 P.O. Number:						1.00 5 3
1	RELINQUI	SHED BY	EM	DATE & T	rime	VIA	~	RECEIVED BY	DATE & TIME	1- 5-2007
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Ē	PLM		PLM			TEM		TEM	TURNAROUND TIME	
	Bulk Analysis (EPA 600/R-93)	/116)	Vermiculite Attic In		Air- Al			Bulk- Presence / Absence EPA600/R-93/116	Rush	
Ī	400 Point Count		(EPA 600/R-04/004) Other		Air- N	OSH 7402		Bulk- Quantitative (weight%)- Chatfield	Same Day	
	1000 Point Count					0 10312		Dust-Presence / Absence	24 - Hour	Contraction of the second
	Gravimetric Preparation		PCM					Dust- Quantitative [fibers/sq.cm]- ASTM D5755	3 - Day	
	Particle ID	\checkmark	NIOSH 7400		Waste	Water- EPA 600/4-83-043		Other	5 - Day	and the second s
No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color		۵	Description		Volume / Area Com (as applicable)	nments / Notes	
1	AB01-161114		CSMS-R01-		449 mir	nutes at 3.05 lpm		1440.21 Only analyze with T	TEM if fibers identified on PCM.	
2	AB02-161114	$\overline{\mathbf{V}}$	CSMS-R01-	2 - 30	449 mir	nutes at 2.11 lpm		944.72	3	
3	AB03-161114	\checkmark	CSMS-R01-		448 min	nutes at 2.46 lpm		1100.33		
4	AB04-161114	\checkmark	CSMS-R01-		448 mir	nutes at 2.50 lpm		1118.26	addition and	Server and the server is
5	ABMU-161114	1	CSMS-R01-		448 mir	nutes at 3.84 lpm		1705.40	Sector 1	
6	ABNP-161114		CSMS-R01-	,	448 mir	nutes at 2.31 lpm		1035.34	11105-02	
7	FB01-161114	√	CSMS-R01-	2	Field I	Blank (opened)	e			
8	FB02-161114	<u> </u>	CSMS-R01-	-	Field	Blank (closed)	5		201.00	
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272881
Date Received:	11/17/16
Received By:	Peyton Awbrey
Analyst:	Leigh Armstrong
Date of Report:	11/18/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161115	2071.296	1	100	<7.00	<0.00130	0.00130	N/A	N/A
002	AB02-161115	1212.516	2	100	<7.00	<0.00222	0.00222	N/A	N/A
003	AB03-161115	1287.603	1	100	<7.00	<0.00209	0.00209	N/A	N/A
004	AB04-161115	1354.347	2	100	<7.00	<0.00199	0.00199	N/A	N/A
005	ABMU-161115	1207.566	3	100	<7.00	<0.00223	0.00223	N/A	N/A
006	ABNP-161115	1732.563	3	100	<7.00	<0.00155	0.00155	N/A	N/A
007	FB01-161115	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161115	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

MIACE NULL, C	unningnam,	UFU									
COUNT #:			E-mail: kurt.cunningha	m@amectw.com	Project ID:	32931	61676	01	her		
IMPLED BY: Name:	Ari Mckeev	er	Date: 11/15/20)16	P.O. Number:						
DUER	TINQUISHED	BY	DATE & TIME	1	/IA		RECEIVED BY		DATE & TIME	-	277881
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Bulk Analysis (EP	4 600/R-93/116)	Vermiculite Attic		Air- AHERA		Π	Bulk-Presence / Absence EPA600/R-93/116		Rush		
400 Point Count	-	(EPA 600/R-04/00	4)	Air-NIOSH 7402	1	H	Bulk-Quantitative (weight%)- Chatfield	TAL	Same Day		t starts
1000 Point Coun		Other	□	Air-150 10312	-	H	Dust-Presence / Absence		24 - Hour		1999/10 10:02
Gravimetric Prep	aration	PCM		Drinking Water	EPA 100.2	- 1	Dust-Quantitative (fibers/sq.cm)-ASTM D5		3 - Day	<u> </u>	
Particle ID		NIOSH 7400		Waste Water- El	PA 600/4-83-043	Ō	Other		5-Day		- and the fact of the
0. Sample (10 Characte				Descrip	tion	a -	Volume / Area (as applicable)	Comments	/ Notes		
1 AB01-16	1115 🖌	CSMS-R01	- 55	57 minutes a	at 3.72 lpm	1.10	2071.296 Only analyze v	with TEM if fib	ers identified on PCM.		1 Jacks
2 AB02-16	1115 🗸	CSMS-R01	- 58	56 minutes a	at 2.18 lpm		1212.516				- Section
3 AB03-16	1115 🗸	CSMS-R01	- 55	6 minutes a	t 2.315 lpm	-	1287.603	12.			
4 AB04-16				6 minutes a		-	1354.347	0		1000	ALTER STREET
5 ABMU-16			1	51 minutes a	-		1207.566		_		
ABNP-16				6 minutes a			1732.563				
7 FB01-16				Field Blank							
6				Field Blank							
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272880
Date Received:	11/17/16
Received By:	Peyton Awbrey
Analyst:	Leigh Armstrong
Date of Report:	11/18/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161116	1450.17	2	100	<7.00	<0.00185	0.00185	N/A	N/A
002	AB02-161116	1703.11	4	100	<7.00	<0.00158	0.00158	N/A	N/A
003	AB03-161116	1129.392	4	100	<7.00	<0.00238	0.00238	N/A	N/A
004	AB04-161116	1128.582	4	100	<7.00	<0.00238	0.00238	N/A	N/A
005	ABMU-161116	943.824	4	100	<7.00	<0.00285	0.00285	N/A	N/A
006	ABNP-161116	925.035	2	100	<7.00	<0.00291	0.00291	N/A	N/A
007	FB01-161116	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161116	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

		+-									
Account #:		E-I	mail: kurt.cunningham@a	nectw.com Project ID:	32931	61676		Oth Oth	er		
SAMPLED BY: Name: Ari	Mckeever		ne: 11/16/2016	P.O. Number:		an a					
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PLM	_	PLM		TEM		TEM	2 ° 9	iTL	RNAROUND TIME		· · · · · · · · · · · · · · · · · · ·
Bulk Analysis (EPA 600/		rmiculite Attic Insula	ation Air	AHERA		Bulk-Presence / Absence EPA6	00/ R-93 /116		Rush		
400 Point Count		PA 600/R-04/004)	Air	NIOSH 7402		Bulk-Quantitative [weight%]-	Chatfield		Same Day		I Charles
1000 Point Count			Air	-150 10312		Dust-Presence / Absence	T.	7	24-Hour	0	Terrent
Gravimetric Preparatio		PCM	Dr	nking Water- EPA 100.2		Dust-Quantitative [fibers/sq.c	m]- ASTM D5755		3 - Day	~	
Particle ID		OSH 7400	Wa	ste Water- EPA 600/4-83-043		Other			5-Day		
No. Sample ID (10 Characters Ma	IX) Malyzed	Color	Si Soni C	Description		Volume / Area (as applicable)	Com	iments /	Notes		
1 AB01-161116	6 🖌 C	SMS-R01-	472 1	ninutes at 3.07 lpm		1450.17 Onl	ly analyze with T	'EM if fibe	rs identified on PCM		
2 AB02-161110	6 🗹 C	CSMS-R01-	448 1	ninutes at 3.80 lpm		1703.11	L P			_	
3 AB03-16111	6 🖌 C	CSMS-R01-	446 1	ninutes at 2.53 lpm	1	1129.392			2-14		and the second s
4 AB04-16111	6 🖌 C	CSMS-R01-	445	ninutes at 2.53 lpm	÷.,	1128.582		1.8	438 - 1	and the second	A REPORT
5 ABMU-16111	16 🖌 C	CSMS-R01-	445	ninutes at 2.12 lpm	- 2 	943.824					
6 ABNP-16111	6 🖌 0	CSMS-R01-	446 r	ninutes at 2.075 lpm		925.035	1	1	665 - 1 ^{- 1}		
7 FB01-16111		CSMS-R01-	Fie	ld Blank (opened)	1	e - C 3			< 1		
8 FB02-16111	6 🖌 (CSMS-R01-	Fie	eld Blank (closed)	3.6						
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	272908
Date Received:	11/18/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	11/21/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project:Former Calumet Stamp MillLocation:Lake Linden, MIProject No.:3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161117	962.28	2	100	<7.00	<0.00280	0.00280	N/A	N/A
002	AB02-161117	950.04	1	100	<7.00	<0.00283	0.00283	N/A	N/A
003	AB03-161117	1121.931	3	100	<7.00	<0.00240	0.00240	N/A	N/A
004	AB04-161117	1041.768	3	100	<7.00	<0.00258	0.00258	N/A	N/A
005	ABMU-161117	1644.552	3	100	<7.00	<0.00164	0.00164	N/A	N/A
006	ABNP-161117	1355.61	6	100	7.64	0.00217	0.00198	0.000917	0.00505
007	FB01-161117	Blank	0	100	N/A	Ν/Λ	N/A	N/A	N/A
008	FB02-161117	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:__

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

ontact:	Kurt L. Cunningham,	CPG	Cell Phone: (517)	404-3582	Project Location:	Lake	Linden, MI	Em.	Aurt cunningham@amechw.com	
ccount #:			E-mail: kurt.cunningha	am@amectw.com	Project ID:	3293	3293161676		er	
AN PLED	BY: Name: Ari Mckeeve	TEM	Date: 11/17/2016 P.O. Number:							and the second second
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	PLM	PLM		TEN	1		TEM	TU	RNAROUND TIME	
Bulk.	c Analysis (EPA 600/R-93/116)	Vermiculite Attic Ir (EPA 600/R-04/004		Air-AHERA	-		8ulk- Presence / Absence EPA600/R-93/116		Rush	
	Point Count	Other		Air-NIOSH 7402			Bulk-Quantitative (weight%)- Chatfield		Same Day	1.8 10.90
╡┼──	0 Point Count	ecolo 2		Air-ISO 10312 Drinking Water	EDA 100 0		Dust- Presence / Absence Dust- Quantitative [fibers/sq.cm]- ASTM D5755	V	24 - Hour	
		PCM NIOSH 7400			A 600/4-83-043		Other		3-Day 5-Day	Barrow and
0. (10	Sample ID ☑ To I 10 Characters Max) Analyz			Descrip	tion		Volume / Area Corr (as applicable)	nments / I	Notes	
A			- 4	37 minutes	at 2.2 lpm		962.28 Only analyze with 7	TEM if fiber	s identified on PCM.	
	AB01-161117 🖌	CSMS-R01-					UUE.EU UII) dialije mar			
2 A	AB01-161117 🖌	CSMS-R01- CSMS-R01-		7 minutes a	t 2.157 lpm		950.04			14 Mar
		-	- 43							C Print Prin
3 A	AB02-161117	CSMS-R01-	- 43 - 43	7 minutes a	t 2.565 lpm		950.04		-	
3 A 4 A	AB02-161117 🗹	CSMS-R01- CSMS-R01-	- 43 - 43 - 43	7 minutes a 7 minutes a	t 2.565 lpm t 2.385 lpm		950.04 1121.931			
B A 4 A 5 Al	AB02-161117 AB03-161117 AB04-161117 BMU-161117 ABNP-161117 SMU-161117 S	CSMS-R01- CSMS-R01- CSMS-R01-	- 43 - 43 - 43 - 43	7 minutes a 7 minutes a 7 minutes a	t 2.565 lpm t 2.385 lpm t 3.765 lpm		950.04 1121.931 1041.768			
3 A 4 A 5 Al 6 A	AB02-161117 AB03-161117 AB04-161117 AB04-161117 AB04-161117 ABNP-161117 FB01-161117 C	CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	- 43 - 43 - 43 - 43 - 43 - 43	7 minutes a 7 minutes a 7 minutes a 7 minutes a	t 2.565 lpm t 2.385 lpm t 3.765 lpm t 3.095 lpm		950.04 1121.931 1041.768 1644.552 1355.61			
3 A 4 A 5 Al 6 Al 7 F	AB02-161117 AB03-161117 AB04-161117 BMU-161117 ABNP-161117 SMU-161117 S	CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	- 43 - 43 - 43 - 43 - 43 - 43	7 minutes a 7 minutes a 7 minutes a 7 minutes a 8 minutes a	t 2.565 lpm t 2.385 lpm t 3.765 lpm t 3.095 lpm (opened)		950.04 1121.931 1041.768 1644.552 1355.61			
3 A 4 A 5 Al 6 A 7 F	AB02-161117 AB03-161117 AB04-161117 AB04-161117 AB04-161117 ABNP-161117 FB01-161117 C	CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	- 43 - 43 - 43 - 43 - 43 - 43	7 minutes a 7 minutes a 7 minutes a 7 minutes a 8 minutes a Field Blank (t 2.565 lpm t 2.385 lpm t 3.765 lpm t 3.095 lpm (opened)		950.04 1121.931 1041.768 1644.552 1355.61			

Please Note - UPS and USPS are NOT available for Saturday Delivery



Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273012
Date Received:	11/21/16
Received By:	Jeff Mlekush
Analyst:	Leigh Armstrong
Date of Report:	11/22/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161676

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161118	434	3	100	<7.00	<0.00620	0.00620	N/A	N/A
002	AB02-161118	432	1	100	<7.00	<0.00623	0.00623	N/A	N/A
003	AB03-161118	430	2	100	<7.00	<0.00626	0.00626	N/A	N/A
004	AB04-161118	427	2	100	<7.00	<0.00630	0.00630	N/A	N/A
005	ABMU-161118	427	0	100	<7.00	<0.00630	0.00630	N/A	N/A
006	ABNP-161118	430	2	100	<7.00	<0.00626	0.00626	N/A	N/A
007	FB01-161118	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161118	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

00130				airnone: (UT7) 40						
ccour	nt #:	-	E	mail; kurt.cunningham@	ameclw.com Project ID:	329316	1676		Other	
AMP	ED BY: Name: Ari Mckeev	er		ate: 11/18/201	6 P.O. Numb	er:	Chevron Pre-			141.1 4.2 L
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	400 Point Count	Oth			ir-NIOSH 7402		Bulk-Quantitative (weight%)	- Chatfield	Same Day	And Sim
	1000 Point Count				ir- ISO 10312		Dust-Presence / Absence	1	✓ 24-Hour	
	Gravimetric Preparation		PCM		Drinking Water-EPA 100.		Dust-Quantitative (fibers/sq	cm]- ASTM D5755	3-Day	
	Particle ID	V NIO	SH 7400	V V	Vaste Water- EPA 600/4-1	33-043	Other		5 - Day	The second secon
lo.	Sample ID IT TO (10 Characters Max) Analy		Color	Contrast.	Description	-	Volume / Area (as applicable)	Comme	ents / Notes	and the setting
1	AB01-161118] C	SMS-R01-	434	minutes at 3.18	lpm	434 0	nly analyze with TEN	I if fibers identified on PCN	Λ.
2	AB02-161118] C	SMS-R01-	432	minutes at 2.03	lpm	432	Distant in		1 Starting
3	AB03-161118] C:	SMS-R01-	430	minutes at 2.618	i lpm	430		and the second	
4	AB04-161118] [C	SMS-R01-	427	minutes at 2.52	lpm	427		-134	No. 28 - 39 - 30 - 30 - 20 - 20 - 20 - 20 - 20 - 20
5	ABMU-161118] C	SMS-R01-	427	minutes at 3.78	lpm	427	-		
6	ABNP-161118] C	SMS-R01-	430	minutes at 2.12	lpm	430	-	3	
7	FB01-161118	′] C	SMS-R01-	Fi	eld Blank (open	ed)			10	
8	FB02-161118	/] _ C	SMS-R01-	F	ield Blank (close	ed)				
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273152
Date Received:	11/23/16
Received By:	Alyssa Lewis
Analyst:	Leigh Armstrong
Date of Report:	11/28/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161121	1057.5	0	100	<7.00	<0.00254	0.00254	N/A	N/A
002	AB02-161121	956.76	1	100	<7.00	<0.00281	0.00281	N/A	N/A
003	AB03-161121	1247.22	1	100	<7.00	<0.00216	0.00216	N/A	N/A
004	AB04-161121	1239.89	1	100	<7.00	<0.00217	0.00217	N/A	N/A
005	ABMU-161121	1466.38	3	100	<7.00	< 0.00183	0.00183	N/A	N/A
006	ABNP-161121	1794.78	5.5	100	7.01	0.00150	0.00150	0.000617	0.00358
007	FB01-161121	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161121	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Com	pany: Amec Foster V		_		Phone:	(248	3) 31	13-4008	Project Name:				alumet Stamp	Mill	QuanTEM Website			
Cont					Cell Phone:	<u>``</u>	,	04-3582	Project Location: Lake Linden, MI						Email <u>kurt.cunningham@amecfw.com</u>			
Acco	unt #:	<u> </u>					•	@amecfw.com	Project ID:	3293			· · · · · · · · · · · · · · · · · · ·			Othe	er	
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	Particle ID		\checkmark	NIOSH 7400	Waste Water- E				PA 600/4-83-043		<u> </u>	Othe	21				5 - Day	
No	. Sample ID (10 Characters Max)	☑ To Analyz		Color				Descrip	otion				Volume / Area (as applicable)	Cor	nmen	ts / N	lotes	
1	AB01-161121			CSMS-R01-		4	470	minutes	at 2.25 lpm				1057.50	Only analyze with	TEM if	fibers	s identified on PCM.	
2	AB02-161121	\checkmark		CSMS-R01-			469	minutes	at 2.04 lpm				956.76	Volur	nes a	re in	liters.	
3	AB03-161121			CSMS-R01-		4	468	minutes	at 2.67 lpm				1247.22					
4	AB04-161121			CSMS-R01-	-		467	minutes	at 2.66 lpm				1239.89					
5	ABMU-161121			CSMS-R01-			467	minutes	at 3.14 ipm				1466.38					
6	ABNP-161121			CSMS-R01-			468	minutes	at 3.84 lpm				1794.78				· · · · ·	
7	FB01-161121			CSMS-R01-			Fi	eld Blank	(opened)									
8	FB02-161121			CSMS-R01-			F	ield Blank	(closed)									
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273145
Date Received:	11/23/16
Received By:	Alyssa Lewis
Analyst:	Leigh Armstrong
Date of Report:	11/28/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161122	893.37	1.5	100	<7.00	<0.00301	0.00301	N/A	N/A
002	AB02-161122	965.8	1	100	<7.00	<0.00279	0.00279	N/A	N/A
003	AB03-161122	1169.46	1	100	<7.00	<0.00230	0.00230	N/A	N/A
004	AB04-161122	1477.06	1	100	<7.00	<0.00182	0.00182	N/A	N/A
005	ABMU-161122	1654.05	1	100	<7.00	<0.00163	0.00163	N/A	N/A
006	ABNP-161122	1145.37	1	100	<7.00	< 0.00235	0.00235	N/A	N/A
007	FB01-161122	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161122	Blank	0.5	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.



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(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058											Lak	Lab No. 273145					
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		Co	ontac	t Information					P	roje	ct Information		Rep	Report Results (I one box			
Comp	Dany: Amec Foster V	Vheel	er		Phone: (2	48) 31	3-4008	Project Name: Former Calumet Stamp Mill				Mill		QuanTEM Website		e	
Conta	Kurt L. Cunnin	gham	, CP	G	Cell Phone: (5	17) 40	4-3582	Project Location: Lake Linden, MI					\square	Em	aii kurt.cunningham@a	mecfw.com	
Accou	unt #:				E-mail: kurt.cun	ningham@	amecfw.com	Project ID: 3293161707					Ot	her			
SAM	PLED BY: Name: Ari Mo	cKee	ver		Date: 11/2	2/16	P.O. Number:	C012	904	340							
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	Bulk Analysis (EPA 600/R-93	sulation	ion Air- AHERA			Bulk- Presence / Absence EPA600/R-93/116						Rush					
	400 Point Count			(EPA 600/R-04/004) Other		Ai	r- NIOSH 740	12		Bull	k- Quantitative [weigh	t%]- Chatfield			Same Day		
	1000 Point Count			other		Ai	r- ISO 10312	레	Dust- Presence / Absence						24 - Hour		
	Gravimetric Preparation			PCM		Drinking Water-			EPA 100.2 Dust- Quantitative [fibers/sq.cm]- ASTM D57] 3 - Day		
	Particle ID			NIOSH 7400		Waste Water- EPA 600/4-83-043 Other					ner] 5 - Day		
No.	Sample ID (10 Characters Max)	I To Analy		Color			Descrip	otion			Volume / Area (as applicable)	Con	nmer	nts /	Notes		
1	AB01-161122]	CSMS-R01-		439 r	minutes	at 2.04 lpm			893.37	Only analyze with	TEM	f fibe	rs identified on	PCM.	
2	AB02-161122]	CSMS-R01-		439 i	minutes :	at 2.20 lpm			965.80	Volur	nes	are i	in liters.		
3	AB03-161122]	CSMS-R01-		438 ו	minutes	at 2.67 lpm			1169.46						
4	AB04-161122]	CSMS-R01-		437 I	minutes	at 3.38 lpm			1477.06						
5	ABMU-161122]	CSMS-R01-		437 ו	minutes	at 3.79 lpm			1654.05						
6	ABNP-161122]	CSMS-R01-		438 1	minutes	at 2.62 lpm			1145.37						
7	FB01-161122]	CSMS-R01-		Fie	ld Blank	(opened)									
8	FB02-161122]	CSMS-R01-		Fie	eld Blank	(closed)									
9]														
10																	

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273335
Date Received:	11/30/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/1/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161128	928.68	1	100	<7.00	<0.00290	0.00290	N/A	N/A
002	AB02-161128	909.5	1	100	<7.00	<0.00296	0.00296	N/A	N/A
003	AB03-161128	1629.88	0	100	<7.00	<0.00165	0.00165	N/A	N/A
004	AB04-161128	1060.38	0	100	<7.00	< 0.00254	0.00254	N/A	N/A
005	ABMU-161128	1096.5	1	100	<7.00	<0.00245	0.00245	N/A	N/A
006	ABNP-161128	1334.5	0	100	<7.00	<0.00202	0.00202	N/A	N/A
007	FB01-161128	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161128	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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	www.1	QuanTEM		LEG		COMENT	- PLEASE PR						Acce	/
	and the second		act Information	1			Project Information					Report Results (☑ one box)		
Comp	any: Amec Foster V	Vheeler		Phone:	(248) 3	13-4008	Project Name: Former Calumet Stamp Mill					QuanTEM Website		
Conta	* Kurt L. Cunning	gham, C	PG	Cell Phone:	Cell Phone: (517) 404-3582			Project Location: Lake Linden, MI				\square	Email 🗠	rt.cunningham@amecfw.com
Accou	nt #:			E-mail: kurt.	cunningham	n@amecfw.com	Project ID: 3293161707						Other _	
SAMP	PLED BY: Name: Kurt L	Cunni	ngham, CPG	Date: 11	/28/16	N	P.O. Number:	P.O. Number: C012904340						
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	Bulk Analysis (EPA 600/R-93/116)								Bulk	- Presence / Absence	EPA600/R-93/116		R	ush
	400 Point Count (EPA 600/R-04/00)				Air- NIOSH 7402				Bulk	- Quantitative (weigh	nt%]- Chatfield		S	ame Day
	1000 Point Count					Air- ISO 10312			Dust	t- Presence / Absence	2		2	4 - Hour
	Gravimetric Preparation		PCM		Drinking Water- E				Dust- Quantitative [fibers/sq.cm]- ASTM D5755				3	- Day
	Particle ID		NIOSH 7400			Waste Water- E	PA 600/4-83-043	Other					5	- Day
No.	Sample ID (10 Characters Max)	☑ To Be Analyze				Descrip	otion			Volume / Area (as applicable)	Con	nmen	ts / Not	es
1	AB01-161128		CSMS-R01	•	420	6 minutes	at 2.18 lpm			928.68	Only analyze with	TEM if	fibers ide	entified on PCM.
2	AB02-161128		CSMS-R01	•	42	5 minutes	at 2.14 lpm			909.50	Volun	nes a	are in lit	ers.
3	AB03-161128		CSMS-R01	•	42	5 minutes	at 3.84 lpm			1629.88				
4	AB04-161128		CSMS-R01	•	42	5 minutes	at 2.50 lpm			1060.38				
5	ABMU-161128		CSMS-R01	•	42	5 minutes	at 2.58 lpm			1096.50				
6	ABNP-161128	\checkmark	CSMS-R01	•	42	5 minutes	at 3.14 lpm			1334.50				
7	FB01-161128	\checkmark	CSMS-R01	•	F	ield Blank	(opened)							
8	FB02-161128		CSMS-R01	-	F	ield Blank	(closed)							
9				_					_					
10														

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup" Please Note - UPS and USPS are NOT available for Saturday Delivery



Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273336
Date Received:	11/30/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/1/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161129	983.31	3	100	<7.00	<0.00274	0.00274	N/A	N/A
002	AB02-161129	933.92	2	100	<7.00	<0.00288	0.00288	N/A	N/A
003	AB03-161129	1650.08	1	100	<7.00	< 0.00163	0.00163	N/A	N/A
004	AB04-161129	1382.92	1.5	100	<7.00	<0.00195	0.00195	N/A	N/A
005	ABMU-161129	1129.24	1	100	<7.00	<0.00238	0.00238	N/A	N/A
006	ABNP-161129	1126.99	2	100	<7.00	<0.00239	0.00239	N/A	N/A
007	FB01-161129	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161129	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.



ASBESTOS CHAIN OF CUSTODY

Page 1 of <u>1</u>

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058											For Lab Use Only						
	LEGAL DOCUMENT - PLEASE PRINT LEGIBLY												Lab N	ab No. 273336 Accept Reject			
		C	ontad	ct Information						Project Information				Report Results (☑ one box)			
Comp	any: Amec Foster V	Vheel	er		Phone: (248)	31:	3-4008	Project Name: Former Calumet Stamp Mill				QuanTEM Website				
Conta	et Kurt L. Cunning	gham	i, CP	G	Cell Phone: (517)	404	4-3582	Project Location:	Lake	Lind	den, MI			Email kurt.cunningham@amectw.com		
Accou	int #:			·	E-mail: kurt.cunningham@amecfw.com			Project ID:	3293	161	707			Other			
SAM	PLED BY: Name: Kurt L	Cui	nnin	gham, CPG	Date: 11/	Date: 11/29/16			P.O. Number:	C012	2904	340		, <u></u>			
BELINQUISHED BY DATE & TIME								VIA			RECEIVE	D BY	,		DATE & TIME		
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	REQUESTED SERVICES (Please 🗹 the Appropriate Boxes)																
	PLM			PLM				TEI	M			TE	N		TUF	RNAROUND TIME	
	Bulk Analysis (EPA 600/R-93/116)						r- AHERA	AHERA Bulk- Presence / Absence EPA600/R-93/116					Rush				
	400 Point Count			Other		Air- NIOSH 7402			12		Bul	k-Quantitative (weigh	antitative [weight%]- Chatfield			Same Day	
	1000 Point Count			1		Air) 		\checkmark	24 - Hour		
	Gravimetric Preparation			PCM			Dr	inking Wate	ter- EPA 100.2 Dust- Quantitative (fibers/sq.cm)- ASTM D57				/sq.cm]- ASTM D5755			3 - Day	
	Particle ID			NIO5H 7400			Wa	aste Water- E	PA 600/4-83-043							5 - Day	
No.	Sample ID (10 Characters Max)	☑ To Analy		Color				Descrip	otion			Volume / Area (as applicable)	Con	nments	5 / N	otes	
1	AB01-161129]	CSMS-R01-		44	49 r	ninutes	at 2.19 lpm			983.31	Only analyze with	TEM if fi	bers	identified on PCM.	
2	AB02-161129]	CSMS-R01-		44	49 r	ninutes	at 2.08 lpm			933.92	Volun	nes ar	e in	liters.	
3	AB03-161129]	CSMS-R01-		44	19 r	ninutes	at 3.68 lpm			1650.08					
4	AB04-161129			CSMS-R01-		4	49	minutes	at 308 lpm			1382.92					
5	ABMU-161129]	CSMS-R01-		44	49 r	ninutes	at 2.52 lpm	_		1129.24					
6	ABNP-161129]	CSMS-R01-		44	19 r	minutes	at 2.51 lpm	-		1126.99					
7	FB01-161129			CSMS-R01-			Fie	ld Blank	(opened)								
8	8 FB02-161129 CSMS-R01- Field Blan							eld Blank	(closed)								
9]							_							
10]														
SATU	RDAY FEDEX SAMPLE DI	ELIVER	Y-CAI	L TO SCHEDULE •	Use this add	ress for	Satu	ırday Delive	ry only: 4220 N.	Santa F	e Ave.,	, Oklahoma City, OK	73105-8517 🔹 Marl	k Package	e "Ho	Id for Saturday Pickup"	

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273485
Date Received:	12/05/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/6/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161130	1081.97	2	100	<7.00	<0.00249	0.00249	N/A	N/A
002	AB02-161130	1085.88	3	100	<7.00	<0.00248	0.00248	N/A	N/A
003	AB03-161130	1277.62	4	100	<7.00	<0.00211	0.00211	N/A	N/A
004	AB04-161130	1300.32	4	100	<7.00	<0.00207	0.00207	N/A	N/A
005	ABMU-161130	1852.2	3	100	<7.00	<0.00145	0.00145	N/A	N/A
006	ABNP-161130	1584.38	2	100	<7.00	<0.00170	0.00170	N/A	N/A
007	FB01-161130	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161130	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Account #:			E-mail: kurt.cunningham@amecfiv.com Project ID: 3293161707						r						
SAMP	LED BY: Name: Ari MCK	Geever	TM	Date:	11/30	/16	P.O. Numi	ver: C()129	04340					
Ĭ	RELINQUIS	HED BY	CM	D/	ATE & TI	ME	VIA	T		RECEIV	ED BY	Τ	DATE & TIME		A 203475
Chi Myleen			12/01/2016 1000 Feder			feder	1 Staling			Ly	1215111 0 8.00			3	
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	PLM		PLM			-	TEM		_	TE	M	TU	RNAROUND TIME		
7	Bulk Analysis (EPA 600/R-93/1	16)	Vermiculite Attic Ir							Bulk-Presence / Absenc			Rush	I	
			(EPA 600/R-04/004	Air-		7	Air-NKOSH 7402		Bulk-Quantitative (weight%)- Chatfield		ht%]- Chatfield	Same Day		BUT IN A CA	
			Uther			Air- ISO 10312	ISO 10312		Dust- Presence / Absence		V	24 - Hour	- to all a state		
	Gravimetric Preparation PCM			Drinking Water		Drinking Water- EPA 100	- EPA 100.2		Dust- Quantitative [fibers/sq.cm]- ASTM D5755			3-Day		and the second	
	Particle ID	\checkmark	NIO5H 7400				Waste Water- EPA 600/4-	83-043		Other			5 - Day		Contractor (1)
0.		☑ To Be Analyzed	Color		1.00	ł.	Description	fr:		Volume / Area (as applicable)	Comr	nents / I	lotes	and the second se	
1	AB01-161130	7	CSMS-R01	•	1	51	4 minutes at 2.11	lpm		1081.97	Only analyze with TE	M if fiber	s identified on PCM.		1.00
2	AB02-161130		CSMS-R01		A.,	51	1 minutes at 2.13	Ipm	1	1085.88	Volume	es are i	n liters.		10 in mar
3	AB03-161130		CSMS-R01			50	8 minutes at 2.52	2 lpm		1277.62					
4	AB04-161130		CSMS-R01		6.15	5	Aminutes at 2.58	lpm	11	1300.32	1	$t \gtrsim$	an kana	ALC: NO. 1 SH	Charles and the set of
5	ABMU-161130		CSMS-R01	-		50	A minutes at 3.68	3 lpm		1852.20			- C.	1	1. A. B. 1987.
6	ABNP-161130		CSMS-R01			-	7 minutes at 3.24			1584.38		1			
7	FB01-161130		CSMS-R01		-		Field Blank (open		ŝ	-		- 2-4			
8	FB02-161130		CSMS-R01		e	E)	Field Blank (clos	-	1					-	
9		Π	- 1	-			<u> </u>		1						
10			-							-					

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273484
Date Received:	12/05/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/6/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161201	990.51	1	100	<7.00	<0.00272	0.00272	N/A	N/A
002	AB02-161201	1801.35	0	100	<7.00	<0.00149	0.00149	N/A	N/A
003	AB03-161201	1267.2	0	100	<7.00	<0.00212	0.00212	N/A	N/A
004	AB04-161201	1271.48	1	100	<7.00	<0.00212	0.00212	N/A	N/A
005	ABMU-161201	984.68	1	100	<7.00	<0.00273	0.00273	N/A	N/A
006	ABNP-161201	1516.8	0	100	<7.00	<0.00177	0.00177	N/A	N/A
007	FB01-161201	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161201	Blank	1	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

				1404									
			E-mail: kurt.cunningham@amecfw.com Project ID:				161707		Othe	er			
AMPLED BY: Name: Ari N	NcKeever	TEM	Date: 12/01/	16	P.O. Number:	C012	904340						
DUC RELINC	UISHED BY		DATE & TIN	IE	VIA		RECEIV	ED BY		DATE & TIME	Lab No. 27 2		
Ari MKREER			12/01/16 17:00 fearex			L K Sincy				5/11/2 8:00	Reject		
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1.10	A.(#)		REQUESTED		CES (Please 🗹 the Ap		iate Boxes)	2 2 2			1.000		
PLM		PLM			TEM		TEI			RNAROUND TIME			
Bulk Analysis (EPA 600/R	-93/116)	Vermiculite Attic In				Π		k- Presence / Absence EPA600/R-93/116		Rush			
400 Point Count (EPA 600/R-04/004			»				Bulk-Quantitative (weigh	Bulk- Quantitative [weight%]- Chatfield		Same Day			
			Air- ISO 10312			H	Dust-Presence / Absence		V		10,6.1%		
Gravimetric Preparation PCN		PCM	Drinking Water- EPA 100.2			Dust-Quantitative (fibers/sq.cm)- ASTM D5755		s/sq.cm]- ASTM D5755	3 - Day				
Particle ID	1	NIOSH 7400		Was	te Water- EPA 600/4-83-043		Other			5-Day	1. 2. M. 2. W. 2.		
. Sample ID (10 Characters Max)	☑ To Be Analyzed				Description		Volume / Area (as applicable)	Commen	its / N	lotes			
1 AB01-161201		CSMS-R01-		482 m	inutes at 2.06 pm		990.51	Only analyze with TEM i	fibers	identified on PCM.			
2 AB02-161201		CSMS-R01-			inutes at 3.75 lpm		1801.35	Volumes a	are in	liters.	11.217 141		
AB03-161201		CSMS-R01-			inutes at 2.72 lpm		1267.20						
AB04-161201		CSMS-R01-		- 1-	inutes at 2.82 lpm		1271.48				And the last when		
ABMU-161201		CSMS-R01-			inutes at 2.06 lpm		984.68						
5 ABNP-161201		CSMS-R01-	_		inutes at 3.16 lpm		1516.80						
7 FB01-161201		CSMS-R01-			Blank (opened)		1010.00						
8 FB02-161201		CSMS-R01-	•	riei(d Blank (closed)								
9													
10													

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273549
Date Received:	12/06/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/7/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project:Former Calumet Stamp MillLocation:Lake Linden, MI

Project No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161202	1789.24	4	100	<7.00	<0.00150	0.00150	N/A	N/A
002	AB02-161202	959.4	1	100	<7.00	<0.00280	0.00280	N/A	N/A
003	AB03-161202	1195.74	4	100	<7.00	< 0.00225	0.00225	N/A	N/A
004	AB04-161202	1253.9	0	100	<7.00	< 0.00215	0.00215	N/A	N/A
005	ABMU-161202	1473.2	3	100	<7.00	<0.00183	0.00183	N/A	N/A
006	ABNP-161202	989.35	2	100	<7.00	<0.00272	0.00272	N/A	N/A
007	FB01-161202	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161202	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2001	unt f:		E-mail; kurt.cunningham@	amecfw.com Project ID:	329316	1707		Other	
AM	APLED BY: Name Ari McKeeve		Date: 12/02/16	P.O. Number:	C01290	4340	1		Base 1 V
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	PLM	PLM		TEM		- T	EM	TURNAROUND TIM	Ε
	Bulk Analysis (EPA 600/R-93/116)	Vermiculite Attic In		- AHERA	B	ulk- Presence / Absen	ce EPA600/R-93/116	Rush	
	400 Point Count	(EPA 600/R-04/004)	Ai	- NIOSH 7402	B	Ik-Quantitative (wei	ght%]-Chatfield	Same Day	1.2.2
	1000 Point Count		Ai	- ISO 10312	D	ust-Presence / Abser	ice T 1 t	24 - Hour	
	Gravimetric Preparation	РСМ	Dr	inking Water- EPA 100.2	D	ust-Quantitative (fib	ers/sq.cm]- ASTM D5755	3-Day	
I	Particle ID	NIOSH 7400	Wa	aste Water- EPA 600/4-83-043	0	ther		5-Day	
•	Sample ID IT o B (10 Characters Max) Analyze		er (6), (62) 4	Description		Volume / Area (as applicable)		ts / Notes	
	AB01-161202	CSMS-R01-	469 r	ninutes at 3.82 lpm		1789.24	Only analyze with TEM if	fibers identified on PCN	Л.
1	AB02-161202	CSMS-R01-	468 r	ninutes at 2.05 lpm	1.0	959.40	Volumes a	re in liters.	1-1242
	AB03-161202	CSMS-R01-	468 n	ninutes at 2.56 lpm	-	1195.74			Constanting of the second
	AB04-161202	CSMS-R01-	467 m	ninutes at 2.69 lpm	08 x 4	1253.90		2.1	45
	ABMU-161202	CSMS-R01-		ninutes at 3.18 lpm	0.0	1473.20			1 . · · ·
	ABNP-161202	CSMS-R01-		ninutes at 2.11 lpm	-	989.35		- 2	
	FB01-161202	CSMS-R01-	Fiel	d Blank (opened)	10.00	1. *		- 11 A	
	FB02-161202	CSMS-R01-	Fie	ld Blank (closed)	1999 1997	1.0			
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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273552
Date Received:	12/06/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/7/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project:Former Calumet Stamp MillLocation:Lake Linden, MI

Project No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161203	1483.65	4	100	<7.00	<0.00181	0.00181	N/A	N/A
002	AB02-161203	1780.38	5	100	<7.00	<0.00151	0.00151	N/A	N/A
003	AB03-161203	1029.14	1	100	<7.00	<0.00261	0.00261	N/A	N/A
004	AB04-161203	1055.04	2	100	<7.00	< 0.00255	0.00255	N/A	N/A
005	ABMU-161203	1262.28	2	100	<7.00	<0.00213	0.00213	N/A	N/A
006	ABNP-161203	1248.15	3	100	<7.00	<0.00216	0.00216	N/A	N/A
007	FB01-161203	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161203	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

Contract C. Commingham, Or C	COLUMN (011) 101 0002	Troject cocation. EQIV				<u> </u>	' <u> </u>		
Account 4:	E-mail: kurt.cunningham@amecfw.com	ecfw.com Project ID: 3293161707				Othe	r		
SAMPLED BY: Name Kurt L. Cunningham, CPG	Date: 12/03/16	P.O. Number: CO1	1290434	40					5 a. 5 <u> </u>
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= r - L = L	REQUESTED SERVICES (PI	lease 🗹 the Appro	opriate B	oxes)					- 10 - m
PLM PLM	TE	M		TEM		TUR	NAROUND TIME		
Bulk Analysis (EPA 600/R-93/116) Vermiculite Attic UCPA 600/R-04/00-			Bulk- F	Presence / Absence E	PA600/R-93/116		Rush	-	and the second
400 Point Count Other	Air- NIOSH 74	102	Bulk- C	Quantitative (weight	%]- Chatfield		Same Day	Sector of the	
1000 Point Count	Air- ISO 1031	2	Dust-I	Presence / Absence	- 1 - 1 -	\checkmark	24 - Hour		23
Gravimetric Preparation PCM	Drinking Wat	er- EPA 100.2	Dust-	Quantitative [fibers/	sq.cm]- ASTM D5755		3 - Day		
Particle ID NIOSH 7400	Waste Water-	EPA 600/4-83-043	Other				5-Day		Call Section by
No. Sample ID 🗹 To Be Color (10 Characters Max) Analyzed	Descri	iption		Volume / Area (as applicable)	Comr	nents / N	otes		
1 AB01-161203 CSMS-R01	- 471 minutes	at 3.15 lpm		1483.65	Only analyze with TI	EM if fibers	identified on PCM.		
2 AB02-161203 🚺 CSMS-R01	- 471 minutes	at 3.78 lpm		1780.38	Volum	es are in	liters.		
3 AB03-161203 🗸 CSMS-R01	- 471 minutes	at 2.19 lpm		1029.14		15 3			
4 AB04-161203 🗹 CSMS-R01	- 471 minutes	at 2.24 lpm		1055.04					
5 ABMU-161203 📝 CSMS-R01	- 471 minutes	at 2.68 lpm		1262.28					
6 ABNP-161203 CSMS-R01	- 471 minutes	at 2.65 lpm		1248.15					
7 FB01-161203 🗹 CSMS-R01	- Field Blan	k (opened)							
8 FB02-161203 🚺 CSMS-R01	- Field Blan	k (closed)	Ì						
9							-		
10									
SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE	Use this address for Saturday Deliv	ery only: 4220 N. Santa	Fe Ave., Ol	klahoma City, OK 7.	8105-8517 • Mark P	ackage "Ho	ld for Saturday Pickup [®]		

- 10



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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273651
Date Received:	12/08/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/9/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project:Former Calumet Stamp MillLocation:Lake Linden, MI.

Project No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161205	1402.04	2	100	<7.00	<0.00192	0.00192	N/A	N/A
002	AB02-161205	1689.69	2	100	<7.00	<0.00159	0.00159	N/A	N/A
003	AB03-161205	978.48	3	100	<7.00	< 0.00275	0.00275	N/A	N/A
004	AB04-161205	1041.9	1	100	<7.00	<0.00258	0.00258	N/A	N/A
005	ABMU-161205	1198.19	2	100	<7.00	<0.00225	0.00225	N/A	N/A
006	ABNP-161205	1223.1	2	100	<7.00	<0.00220	0.00220	N/A	N/A
007	FB01-161205	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161205	Blank	1	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

ccount #:		E-mail: kurt.cunninghai	m@amecfw.com Project ID:	3293161707	0.000	Other	
AMPLED BY: Name: Kurt L. Cunni	ingham, CPG	Date: 12/05/16	P.O. Number:	C012904340			
RELINQUISHED BY		DATE & TIME	VIA	RECE	VED BY	DATE & TIME	
Ench. Th	1.0	12/7/16 1430	Fediex	K.G.	aliy	12-8-16 163	
	and the second					N. 2	
- 14 BL 9 .	- No. 16	REQUESTED SE	RVICES (Please I the	Appropriate Boxes)			
PLM	PLM		TEM		EM	TURNAROUND TIME	- N
Bulk Analysis (EPA 600/R-93/116)	Vermiculite Attic I		Air-AHERA	Bulk- Presence / Abse		Rush	
400 Point Count	(EPA 600/R-04/004	4) [Air-NIOSH 7402	Bulk- Quantitative (we	ight%]- Chatfield	Same Day	12-8-23 11
1000 Point Count	Other	0	Air-150 10312	Dust-Presence / Abse	nce	24 - Hour	10 2 10 10
Gravimetric Preparation	PCM	Ī	Drinking Water- EPA 100.2	Dust-Quantitative [fil	pers/sq.cm]- ASTM D5755	3-Day	
Particle ID	NIOSH 7400		Waste Water- EPA 600/4-83-04	43 Other		5 - Day	A DE LONGERALION
No. Sample ID 🛛 To Br (10 Characters Max) Analyze			Description	Volume / Are (as applicable		nts / Notes	
1 AB01-161205	CSMS-R01	- 45	53 minutes at 3.08 lpr	m 1402.04	Only analyze with TEM	if fibers identified on PCM.	and Parks
2 AB02-161205	CSMS-R01	- 4	53 minutes at 3.73 lpr	m 1689.69	Volumes	are in liters.	1 - Same
3 AB03-161205	CSMS-R01	- 4:	53 minutes at 2.16 lpr	m 978.48		Print	
4 AB04-161205	CSMS-R01		53 minutes at 2.30 lpr			- 1	Leave provides the
5 ABMU-161205	CSMS-R01		53 minutes at 2.65 lpr	2 8 C 8 1			talitation of the second se
6 ABNP-161205	CSMS-R01		53 minutes at 2.70 lpr				
7 FB01-161205	CSMS-R01		Field Blank (opened)			8	
8 FB02-161205	CSMS-R01		Field Blank (closed)		*	5	
9		1.5			2		
10						18	
SATURDAY FEDEX SAMPLE DELIVERY-		a the shite of the state	Catula Dali i ma	All Carls Called and Old Line Cit		lines Haldfas Casada Olalia "	

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	273655
Date Received:	12/08/16
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	12/9/2016
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-161206	1239.9	2	100	<7.00	<0.00217	0.00217	N/A	N/A
002	AB02-161206	1284.27	2	100	<7.00	<0.00209	0.00209	N/A	N/A
003	AB03-161206	1580.07	2	100	<7.00	<0.00170	0.00170	N/A	N/A
004	AB04-161206	1853.68	2	100	<7.00	<0.00145	0.00145	N/A	N/A
005	ABMU-161206	1323.71	1	100	<7.00	<0.00203	0.00203	N/A	N/A
006	ABNP-161206	1318.78	1	100	<7.00	<0.00204	0.00204	N/A	N/A
007	FB01-161206	Blank	1	100	N/A	N/A	N/A	N/A	N/A
008	FB02-161206	Blank	0	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.56 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.20 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

ccount #:			E-mail: kurt.cunningham@amecfw.com Project ID: 3293161707							
AMPL	ED BY: Name: Kurt L. Cunn	ingham, CPG	Date: 12/06/16	P.O. Number:						
Ĭ	RELINQUISHED B		DATE & TIME VIA			RECEIVE	DBY	DATE & TIME		
7	7.44	(12/7/14/430	Fedizx -	201.3	K.G.	dely		2-8-16-10.	K
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-		15	REQUESTED SER	RVICES (Please I the Ap	opropr	iate Boxes)	1 8.21	ni.		
1	PLM	PLM		TEM	<u>, .</u>	TEN	A	TU	RNAROUND TIME	
	Bulk Analysis (EPA 600/R-93/116)	Vermiculite Attic In		Air- AHERA		Bulk-Presence / Absence	100 State 140		Rush	
Ī	400 Point Count	(EPA 600/R-04/004)		Air- NIOSH 7402		Bulk- Quantitative [weigh	t%]- Chatfield		Same Day	Status and
	1000 Point Count	Other		Air- ISO 10312		Dust-Presence / Absence	1	7	24 - Hour	
	Gravimetric Preparation	PCM		Drinking Water- EPA 100.2		Dust-Quantitative (fibers	/sq.cm)- ASTM D5755	E	3 - Day	
	Particle ID	NIOSH 7400		Waste Water- EPA 600/4-83-043		Other	1100		5-Day	
No.	Sample ID Ø To E (10 Characters Max) Analyze			Description		Volume / Area (as applicable)	Comme	nts /	Notes	and the state
1	AB01-161206	CSMS-R01-	- 49	3 minutes at 2.52 lpm		1239.90	Only analyze with TEM	if fibe	rs identified on PCM.	1
2	AB02-161206	CSMS-R01-	- 49	3 minutes at 2.61 lpm		1284.27	Volumes	are i	n liters.	1-1-1-
3	AB03-161206	CSMS-R01-	- 49	3 minutes at 3.21 lpm		1580.07		-		
4	AB04-161206	CSMS-R01-		3 minutes at 3.76 lpm		1853.68	l			- 90-
5	ABMU-161206	CSMS-R01-		3 minutes at 2.69 lpm		1323.71				
6	ABNP-161206	CSMS-R01-		3 minutes at 2.68 lpm		1318.78	Lê.			
7	FB01-161206	CSMS-R01		Field Blank (opened)						
8	FB02-161206	CSMS-R01		Field Blank (closed)	e (
9										
, s 10										

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	279310
Date Received:	04/27/17
Received By:	Peyton Awbrey
Analyst:	Leigh Armstrong
Date of Report:	4/28/2017
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-170425	705.9	1.5	100	<7.00	<0.00381	0.00381	N/A	N/A
002	AB02-170425	685.1	0	100	<7.00	<0.00393	0.00393	N/A	N/A
003	AB03-170425	868.9	2	100	<7.00	<0.00310	0.00310	N/A	N/A
004	AB04-170425	2299.5	1	100	<7.00	<0.00117	0.00117	N/A	N/A
005	ABMU-170425	1863.2	1	100	<7.00	<0.00144	0.00144	N/A	N/A
006	ABNP-170425	640.6	2	100	<7.00	<0.00420	0.00420	N/A	N/A
007	FB01-170425	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-170425	Blank	1	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.54 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.14 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

				Cerphone: (JT/) 404-3302 Project Location: Lake Linuen, Wi									
Account	tŧ			E-mail: kurt.cunninghar	m@amecfw.com	Project ID:	3293	161707] Oth	er		
Sampl	LED BY: Name: Kurt L. (Cunnin	gham, CPG	Date: 4/25/17 P.O. Number: C012904340									
1	RELINQUISI	HED BY	E	DATE & TIME	& TIME VIA			RECEIVED BY DA				La	b No. 2793
h	11. Th			4/24/13 104	1049 FedEX		Fe	lEx -	1992 - 19 M.S.	4	1/20/17/02/5		Accept R
								MA	2 P. 7 M	ų	127/17 8:50	-	The Worker
		120	le î	REQUESTED SE	RVICES (Plea	se 🗹 the Ap	propr	riate Boxes)	5			Į.	Sec. March
	PLM		PLM		TEM			TE	M	TU	RNAROUND TIME		
	Bulk Analysis (EPA 600/R-93/11	16)	Vermiculite Attic In		Air- AHERA			Bulk-Presence / Absence	e EPA600/R-93/116		Rush	.1	
	400 Point Count		(EPA 600/R-04/004) Other		AIr-NIOSH 7402			Bulk-Quantitative (weig	ht%]- Chatfield		Same Day		
	1000 Point Count				Air- ISO 10312			Dust-Presence / Absenc	e		24 - Hour	-	1972-8
	Gravimetric Preparation PC				Drinking Water- EPA 100.2			Dust-Quantitative Ifiber	antitative [fibers/sq.cm]- ASTM DS755		3-Day	10 (C-1	1
	Gravimetric Preparation		PCM		Diffiking Hoter I	LIN IVIL			A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE				
	Gravim etric Preparatio n Particle ID		PCM NKOSH 7400		Waste Water- EP/	-		Other			5 - Day		je se
	Particle ID Sample ID	☑ To Be analyzed				A 600/4-83-043			Comm	ents / I	5-Day		
	Particle ID Sample ID		NKOSH 7400 Color CSMS-R01-		Waste Water- EPA	A 600/4-83-043 tion		Other Volume / Area	Comm Only analyze with TEM		5 - Day Notes		
	Particle ID Sample ID (10 Characters Max) A	nalyzed	NIOSH 7400 Color		Waste Water- EPA Descript	A 600/4-83-043 tion t 1.27 lpm		Other Volume / Area (as applicable)		A if fiber	5 - Day Notes rs identified on PCM.		
	Particle ID Sample ID (10 Characters Max) A AB01-170425	inalyzed	NKOSH 7400 Color CSMS-R01-	55	Waste Water- EPA Descript 58 minutes at	A 600/4-83-043 tion t 1.27 lpm t 1.23 lpm		Other Volume / Area (as applicable) 705.9	Only analyze with TEM	A if fiber are in	5 - Day Notes rs identified on PCM.		
	Particle ID Sample ID (10 Characters Max) A AB01-170425 AB02-170425	inalyzed	NKOSH 7400 Color CSMS-R01- CSMS-F01-	55	Waste Water- EPA Descript 58 minutes at 57 minutes at	A 600/4-83-043 tion t 1.27 lpm t 1.23 lpm t 1.56 lpm		Other Volume / Area (as applicable) 705.9 685.1	Only analyze with TEM	A if fiber are in	5 - Day Notes rs identified on PCM. n liters.		
	Particle ID Sample ID (10 Characters Max) A AB01-170425 AB02-170425 AB03-170425	Analyzed	NKOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01-	55 55 51	Waste Water- EPA Descript 58 minutes at 57 minutes at 57 minutes at	A 600/4-83-043 tion t 1.27 lpm t 1.23 lpm t 1.56 lpm t 4.50 lpm		Other Volume / Area (as applicable) 705.9 685.1 868.9	Only analyze with TEM	A if fiber are in	5 - Day Notes rs identified on PCM. n liters.		
	Particle ID Sample ID (10 Characters Max) A AB01-170425 AB02-170425 AB03-170425 AB04-170425	Inalyzed	NKOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	55 55 51 55	Waste Water- EPA Descript 58 minutes at 57 minutes at 57 minutes at 11 minutes at	A 600/4-83-043 tion t 1.27 lpm t 1.23 lpm t 1.56 lpm t 4.50 lpm t 3.35 lpm		Other Volume / Area (as applicable) 705.9 685.1 868.9 2299.5	Only analyze with TEM	A if fiber are in	5 - Day Notes rs identified on PCM. n liters.		
No.	Particle ID Sample ID (10 Characters Max) A AB01-170425 AB02-170425 AB03-170425 AB04-170425 AB04-170425	Inalyzed	NHOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	55 55 51 55 55 55	Waste Water- EPA Descript 58 minutes at 57 minutes at 57 minutes at 11 minutes at 57 minutes at	A 600/4-83-043 tion t 1.27 lpm t 1.23 lpm t 1.56 lpm t 4.50 lpm t 3.35 lpm t 1.15 lpm		Other Volume / Area (as applicable) 705.9 685.1 868.9 2299.5 1863.2	Only analyze with TEM	A if fiber are in	5 - Day Notes rs identified on PCM. n liters.		
No.	Particle ID Sample ID (10 Characters Max) A AB01-170425 AB02-170425 AB03-170425 AB04-170425 ABMU-170425 ABMU-170425		NIOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	55 55 51 55 55	Waste Water- EP/ Descript 58 minutes at 57 minutes at 57 minutes at 11 minutes at 57 minutes at 57 minutes at	A 600/4-83-043 tion t 1.27 lpm t 1.23 lpm t 1.26 lpm t 4.50 lpm t 3.35 lpm t 1.15 lpm (opened)		Other Volume / Area (as applicable) 705.9 685.1 868.9 2299.5 1863.2	Only analyze with TEM	A if fiber are in	5 - Day Notes rs identified on PCM. n liters.		
No. 1 2 3 4 5 5 7	Particle ID Sample ID (10 Characters Max) A AB01-170425 AB02-170425 AB03-170425 AB04-170425 ABMU-170425 ABMU-170425 FB01-170425		NKOSH 7400 Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	55 55 51 55 55	Waste Water- EPA Descript 58 minutes at 57 minutes at	A 600/4-83-043 tion t 1.27 lpm t 1.23 lpm t 1.26 lpm t 4.50 lpm t 3.35 lpm t 1.15 lpm (opened)		Other Volume / Area (as applicable) 705.9 685.1 868.9 2299.5 1863.2	Only analyze with TEM	A if fiber are in	5 - Day Notes rs identified on PCM. n liters.		

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Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	279529
Date Received:	05/02/17
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	5/3/2017
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-170427	815.5	1	100	<7.00	<0.00330	0.00330	N/A	N/A
002	AB02-170427	810.2	0	100	<7.00	< 0.00332	0.00332	N/A	N/A
003	AB03-170427	890.1	0	100	<7.00	< 0.00302	0.00302	N/A	N/A
004	AB04-170427	2086.7	0	100	<7.00	<0.00129	0.00129	N/A	N/A
005	ABMU-170427	871.5	2	100	<7.00	<0.00309	0.00309	N/A	N/A
006	ABNP-170427	1905.5	1	100	<7.00	<0.00141	0.00141	N/A	N/A
007	FB01-170427	Blank	0.5	100	N/A	N/A	N/A	N/A	N/A
008	FB02-170427	Blank	1	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.54 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.14 for >50 fibers.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

kcount #				161707		Other	Sec. 1. A.
AMPLED BY: Name: Kurt L. Cunning	gham, CPG Date: 4/	/27/17 P.O.	Number: C012	904340			A REAL PROPERTY AND
RELINQUISHED BY	DATE	&TIME VIA		RECEIVED	BY	DATE & TIME	am 22773
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PLM	PLM	TEM		TEM		TURNAROUND TIME	
Bulk Analysis (EPA 600/R-93/116)	Vermiculite Attic Insulation	Air- AHERA		Bulk-Presence / Absence El	PA600/R-93/116	Rush	
400 Point Count	(EPA 600/R-04/004) Other	Air-NIOSH 7402		Bulk-Quantitative [weight9	6]- Chatfield	Same Day	100 Mar 191
1000 Point Count	ouler	Air- ISO 10312		Dust-Presence / Absence	A.46	24 - Hour	
Gravimetric Preparation	PCM	Drinking Water- EPA	A 100.2	Dust- Quantitative [fibers/s	q.cm]- ASTM D5755	3 - Day	
				Other		5 - Day	
Particle ID	NIOSH 7400	Waste Water- EPA 6	00/4-83-043	Other		J-Day	
	Color	Descriptio		Volume / Area (as applicable)	Comr	ments / Notes	L. Park
No. Sample ID 🗹 To Be	Color		<u>יין</u> חו	Volume / Area	1 lan		
No. Sample ID I To Be (10 Characters Max) Analyzed	Color	Descriptio	on 1.53 lpm	Volume / Area (as applicable)	a nalyze with TE	ments / Notes	The second
No. Sample ID I To Be (10 Characters Max) Analyzed AB01-170427	Color CSMS-R01-	Descriptio 533 minutes at 1	on 1.53 lpm 1.52 lpm	Volume / Area (as applicable) 815.5	a nalyze with TE	ments / Notes EM if fibers identified on PCM.	The second
No. Sample ID To Be (10 Characters Max) Analyzed AB01-170427 2 AB02-170427 2	Color CSMS-R01- CSMS-R01-	Descriptio 533 minutes at 1 533 minutes at 1	on 1.53 lpm 1.52 lpm 1.67 lpm	Volume / Area (as applicable) 815.5 810.2	a nalyze with TE	ments / Notes EM if fibers identified on PCM.	The second
Sample ID (10 Characters Max) Image: To Be Analyzed AB01-170427 Image: To Be Analyzed AB02-170427 Image: To Be Analyzed AB03-170427 Image: To Be Analyzed	Color CSMS-R01- CSMS-R01- CSMS-R01-	Descriptio 533 minutes at 1 533 minutes at 1 533 minutes at 1	n 1.53 lpm 1.52 lpm 1.67 lpm 3.92 lpm	Volume / Area (as applicable) 815.5 810.2 890.1	a nalyze with TE	ments / Notes EM if fibers identified on PCM. es are in liters.	The second
No. Sample ID (10 Characters Max) I To Be Analyzed AB01-170427 I AB02-170427 I AB03-170427 I AB04-170427 I S ABMU-170427	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	Descriptio 533 minutes at 1 533 minutes at 1 533 minutes at 1 533 minutes at 1 533 minutes at 3	n 1.53 lpm 1.52 lpm 1.67 lpm 3.92 lpm 1.64 lpm	Volume / Area (as applicable) 815.5 810.2 890.1 2086.7	a nalyze with TE	ments / Notes EM if fibers identified on PCM. es are in liters.	
Sample ID (10 Characters Max) Image: To Be Analyzed AB01-170427 Image: To Be Analyzed AB02-170427 Image: To Be Analyzed AB03-170427 Image: To Be Analyzed AB03-170427 Image: To Be Analyzed AB04-170427 Image: To Be ABMU-170427 AB04-170427 Image: To Be ABMU-170427 AB04-170427 Image: To Be ABMU-170427	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	Description 533 minutes at 1 533 minutes at 1 533 minutes at 1 533 minutes at 1 533 minutes at 3 533 minutes at 1	on 1.53 lpm 1.52 lpm 1.67 lpm 3.92 lpm 1.64 lpm 3.58 lpm	Volume / Area (as applicable) 815.5 810.2 890.1 2086.7 871.5	a nalyze with TE	ments / Notes EM if fibers identified on PCM. es are in liters.	
No. Sample ID (10 Characters Max) Image: To Be Analyzed AB01-170427 Image: To Be Analyzed 2 AB01-170427 Image: To Be Analyzed 3 AB02-170427 Image: To Be AB03-170427 Image: To Be AB04-170427 4 AB04-170427 Image: To Be ABNU-170427 Image: To Be ABNP-170427 5 ABNP-170427 Image: To Be ABNP-170427 Image: To Be ABNP-170427 7 FB01-170427 Image: To Be ABNP-170427 Image: To Be ABNP-170427	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	Description 533 minutes at 1 533 minutes at 1 533 minutes at 1 533 minutes at 1 533 minutes at 3 533 minutes at 1 533 minutes at 3 533 minutes at 3 533 minutes at 3	on 1.53 lpm 1.52 lpm 1.67 lpm 3.92 lpm 1.64 lpm 3.58 lpm pened)	Volume / Area (as applicable) 815.5 810.2 890.1 2086.7 871.5	a nalyze with TE	ments / Notes EM if fibers identified on PCM. es are in liters.	
No. Sample ID (10 Characters Max) I To Be Analyzed AB01-170427 I AB02-170427 I AB03-170427 I AB03-170427 I AB04-170427 I AB04-170427 I AB04-170427 I AB04-170427 I FB01-170427 I	Color CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01- CSMS-R01-	Description 533 minutes at 1 533 minutes at 1 533 minutes at 1 533 minutes at 3 533 minutes at 1 533 minutes at 1 533 minutes at 1	on 1.53 lpm 1.52 lpm 1.67 lpm 3.92 lpm 1.64 lpm 3.58 lpm pened)	Volume / Area (as applicable) 815.5 810.2 890.1 2086.7 871.5	a nalyze with TE	ments / Notes EM if fibers identified on PCM. es are in liters.	

HIPlease Note - UPS and USPS are NOT available for Saturday Delivery 米日 7 Bettom 570 Sample Bettle who-fec'vel



2033 Heritage Park Dr, Oklahoma City, OK 73120 1.800.822.1650

Phase Contrast Microscopy Analysis Report

QuanTEM Set ID:	279527
Date Received:	05/02/17
Received By:	Karen Braley
Analyst:	Leigh Armstrong
Date of Report:	5/3/2017
Methodology:	NIOSH 7400, Issue 2
AIHA Lab Number:	101352

Client: AMEC NOVI. MI Kurt Cunningham 46850 Magellan Drive Ste 190 Novi, Michigan 48377

Acct. No.: B894

Project: Former Calumet Stamp MillLocation: Lake Linden, MIProject No.: 3293161707

QuanTEM Sample ID	Client Sample ID	Air Volume (liters)	Fibers	Fields	Fiber Density (f/mm2)	Fiber Concentration (f\cc)	Detection Limits (f\cc)	95% LCL (f\cc)	95% UCL (f\cc)
001	AB01-170428	847.1	0	100	<7.00	<0.00318	0.00318	N/A	N/A
002	AB02-170428	735.8	0	100	<7.00	<0.00366	0.00366	N/A	N/A
003	AB03-170428	871.5	0	100	<7.00	<0.00309	0.00309	N/A	N/A
004	AB04-170428	874.2	1	100	<7.00	<0.00308	0.00308	N/A	N/A
005	ABMU-170428	1857.1	3	100	<7.00	< 0.00145	0.00145	N/A	N/A
006	ABNP-170428	2193.7	12	100	14.6	0.00257	0.00123	0.00125	0.00532
007	FB01-170428	Blank	0	100	N/A	N/A	N/A	N/A	N/A
008	FB02-170428	Blank	1	100	N/A	N/A	N/A	N/A	N/A

Authorized Signature:_

Leigh Armstrong, Analyst

Laboratory Sr: 0.54 for 5 to 20 fibers. 0.18 for 20 to 50 fibers. 0.14 for >50 fibers.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculation.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Results have been blank corrected per the NIOSH 7400 method, as applicable.

	a nare ouriningian			TOOOL	Tojeccesculon	Eano						
Accou	int #:		E-mail: kurt.cunningham@	ameciw.com	Project ID:	3293	161707		Oth	er		
SAM	PLED BY: Name: Kurt L. Cur	nningham, CPG	Date: 4/28/17	8.5	P.O. Number:	100	904340	0.00190	1		12:00 1 15	<u>, 1</u>
ų	RELINQUISHED		DATE & TIME	l	VIA		RECEIV			DATE & TIME	Section 2	r
7	KELINQUISHED	101 1	a) []		_	5	· · · · · · · · · · · · · · · · · · ·		0	1.1.1		
huž	Luxi ghousting		5/1/17/1330	FedE	X	Fed	or res			5/1/17/1330	And Address of the	
_					10000	40		K. Braly	5	-2-17 10:35	5.000	
			REQUESTED SER	VICES (Ple	ase 🗹 the A	ppropi	iate Boxes)					
é	PLM	PLM		TEN	1		TE	M	TU	RNAROUND TIME		
	Bulk Analysis (EPA 600/R-93/116)	Vermiculite Attic Ir		Nir- AHERA	-		Bulk-Presence / Absence	EPA600/R-93/116		Rush		
	400 Point Count	(EPA 600/R-04/004		kir- NIOSH 7402	2		Bulk-Quantitative (weigi	nt%]- Chatfield		Same Day		
	1000 Point Count			Nir- ISO 10312			Dust-Presence / Absence			24 - Hour		
	Gravimetric Preparation	PCM		Drinking Water-	- EPA 100.2		Dust-Quantitative (fiber	s/sq.cm]- ASTM D5755		3-Day		
	Particle ID	NIOSH 7400		Vaste Water- El	PA 600/4-83-043		Other			5-Day	and the second	
No.	Sample ID IT To (10 Characters Max) Analy			Descrip	tion		Volume / Area (as applicable)	Com	nents /	Notes		
1	AB01-170428	CSMS-R01-	- 543	minutes a	at 1.56 lpm		847.1	Only analyze with Ti	M if fibe	s identified on PCM.		
2	AB02-170428	CSMS-R01-	- 543	minutes a	at 1.36 lpm		735.8	Volum	es are i	n liters.	14 H - H	
3	AB03-170428	CSMS-R01-	- 543	minutes a	ut 1.61 lpm		871.5		19.20			
4	AB04-170428	CSMS-R01-			it 1.61 lpm	(110)	874.2		-		The advertise of the	
5	ABMU-170428		-		ut 3.42 lpm		1857.1					
6	ABNP-170428				at 4.04 lpm		2193.7					
7	FB01-170428			eld Blank			1.5.2.38		18	2		
8	FB02-170428		-	eld Blank			<i>2</i>					
9												

Carl Parister 1

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup" 3 Please Note - UPS and USPS are NOT available for Saturday Delivery cmn S/2/17 5/2/17 * Bottom OFF Samylie, Bottom - Recurd; #6 contained water inside consectie.

APPENDIX F

Personnel Air Monitoring Results

Parameter: Airborne fibers greater than five microns in length

Date	ATCS	ATCS	Flow	Sam	pling Ti	nes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number				OII	Totai	(L)	Fields	ter	Conc F/cc
1-Nov	2628-21	Field Blank						0	<1000	
1-Nov	2628-22	Field Blank						0	<1000	
		PS-IWA-Milton Fields-During								
1-Nov	2628-23	Mastic Removal	2.0	9:45	11:50	125	250	1	490	0.0020
		PS-IWA-EXC-Milton Fields-								
1-Nov	2628-24	During Debris Cleanup	2.0	12:48	13:18	30	60	1	490	0.0082
		PS-IWA-Milton Fields-During								
		Mastic Removal/Debris								
1-Nov	2628-25	Cleanup	2.0	13:18	16:13	175	350	5	2452	0.0070

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Client: *Terra* Location: Calumet Stamp Mill

Parameter: Airborne fibers greater than five microns in length

Date	ATCS	ATCS Commits Description	Flow	Sam	pling Ti	mes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number			OII	UII	Total	(L)	Fields	ter	Conc F/cc
2-Nov	2628-26	Field Blank						0	<1000	
2-Nov	2628-27	Field Blank						0	<1000	
		PS-IWA-EXC-Larry Watkins-								
2-Nov	2628-28	During Trench Clean out	2.0	9:31	10:01	30	60	0.5	245	0.0041
		PS-IWA-Larry Watkins-During								
2-Nov	2628-29	Trench Clean out	2.0	10:01	11:58	117	234	4.5	2207	0.0094
		PS-IWA-Larry Watkins-During								
2-Nov	2628-30	Trench Clean out	2.0	12:47	16:05	198	396	2	981	0.0025

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected

I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	pling Ti	nes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number			OII	OII	Total	(L)	Fields	ter	Conc F/cc
3-Nov	2628-31	Field Blank						0	<1000	
3-Nov	2628-32	Field Blank						1	<1000	
		PS-IWA-Renee Crane-During								
3-Nov	2628-33	Trench Clean out	2.0	10:08	11:48	100	200	ND	<1000	<0.010
		PS-IWA-EXC-Renee Crane-								
3-Nov	2628-34	During Trench Clean out	2.0	13:01	13:31	30	60	0.5	245	0.0041
		PS-IWA-Renee Crane-During								
3-Nov	2628-35	Trench Clean out	2.0	13:31	16:04	153	306	5	2452	0.0080

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS	TCS	Flow	Sam	pling Ti	mes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number			Oli	UII	TOLAT	(L)	Fields	ter	Conc F/cc
4-Nov	2628-36	Field Blank						0	<1000	
4-Nov	2628-37	Field Blank						1	<1000	
		PS-IWA-EXC-Milton Fields-								
4-Nov	2628-38	During Trench Clean Out	2.0	9:05	9:35	30	60	1	490	0.0082
		PS-IWA-EXC-Craig Henriksen-								
4-Nov	2628-39	Soil Transport-From Skid Steer	2.0	8:50	9:18	28	56	ND	<1000	<0.010
		PS-IWA-Craig Henriksen-Soil								
4-Nov	2628-40	Transport from Skid Steer	2.0	9:18	11:56	158	316	2.5	1226	0.0039
		PS-IWA-Milton Fields-During								
4-Nov	2628-41	Trench Clean Out	2.0	9:35	11:57	142	284	1.5	736	0.0026
		PS-IWA-Milton Fields-During								
4-Nov	2628-42	Trench Clean Out	2.0	12:52	16:06	194	388	5	2452	0.0063
		PS-IWA-Craig Henriksen-Soil								
4-Nov	2628-43	Transport from Skid Steer	2.0	12:46	16:11	205	410	0.5	245	0.0006
		<u> </u>								

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	oling Ti	mes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample		Fibers/Fil	
			` '		•		(L)	Fields	ter	Conc F/cc
5-Nov	2628-44	Field Blank						0	<1000	
5-Nov	2628-45	Field Blank						0	<1000	
		PS-IWA-EXC-Larry Watkins-								
5-Nov	2628-46	During Trench Clean Out	2.0	9:35	10:05	30	60	1	490	0.0082
		PS-IWA-EXC-Jason Downey-								
		Trench Excavation from Mini								
5-Nov	2628-47	Excavator	2.0	11:02	11:32	30	60	ND	<1000	<0.010
		PS-IWA-Larry Watkins-During								
5-Nov	2628-48	Trench Clean Out	2.0	10:05	11:52	107	214	3	1471	0.0069
		PS-IWA-Jason Downey-Trench								
		Excavation from Mini								
5-Nov	2628-49	Excavator	2.0	12:52	16:02	190	380	ND	<1000	<0.010
		PS-IWA-Larry Watkins-During								
5-Nov	2628-50	Trench Clean Out	2.0	12:47	15:13	146	292	2	981	0.0034
			1			1				

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected

I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	oling Tir	nes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Hambol		(=)	011		Total	(L)	Fields	ter	Conc F/cc
7-Nov	2628-51	Field Blank						2	<1000	
7-Nov	2628-52	Field Blank						0	<1000	
		PS-IWA-EXC-Renee Crane-								
7-Nov	2628-53	During Stamp Mill Clean Out	2.0	8:13	8:43	30	60	ND	<1000	<0.010
		PS-IWA-Renee Crane-During								
7-Nov	2628-54	Stamp Mill Clean Out	2.0	8:43	10:13	90	180	3	1471	0.0082
		PS-IWA-Milton Fields-During								
7-Nov	2628-55	Stamp Mill Clean Out	2.0	10:20	11:50	90	180	1	490	0.0027
		PS-IWA-Milton Fields-During								
7-Nov	2628-56	Stamp Mill Clean Out	2.0	12:55	15:43	168	336	1.5	736	0.0022

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Client: *Terra* Location: Calumet Stamp Mill

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	oling Ti	mes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number				Oli	Total	(L)	Fields	ter	Conc F/cc
8-Nov	2628-57	Field Blank						0	<1000	
8-Nov	2628-58	Field Blank						0	<1000	
		PS-IWA-EXC-Renee Crane-								
8-Nov	2628-59	During Trench Clean out	2.0	8:10	8:40	30	60	ND	<1000	<0.010
		PS-IWA-Renee Crane-During								
8-Nov	2628-60	Stamp Mill Clean out	2.0	8:40	11:46	186	372	2	981	0.0026
		PS-IWA-Renee Crane-During								
8-Nov	2628-61	Stamp Mill Clean out	2.0	12:52	15:47	175	350	1	490	0.0014

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Client: *Terra* Location: Calumet Stamp Mill

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	pling Ti	mes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number			01	UII	Total	(L)	Fields	ter	Conc F/cc
9-Nov	2628-62	Field Blank						1	<1000	
9-Nov	2628-63	Field Blank						0	<1000	
		PS-IWA-EXC-Larry Watkins-								
9-Nov	2628-64	During Stamp Mill Clean out	2.0	8:38	9:08	30	60	ND	<1000	<0.010
		PS-IWA-Larry Watkins-During								
9-Nov	2628-65	Stamp Mill Clean out	2.0	9:08	11:52	164	328	1	490	0.0015
		PS-IWA-Larry Watkins-During								
9-Nov	2628-66	Stamp Mill Clean out	2.0	12:48	15:50	182	364	ND	<1000	<0.010

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Client: *Terra* Location: Calumet Stamp Mill

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	oling Ti	<u>nes</u>				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
	Humber		(=)	011	011	Total	(L)	Fields	ter	Conc F/cc
10 -N ov	2628-67	Field Blank						0	<1000	
10-Nov	2628-68	Field Blank						0	<1000	
		PS-IWA-EXC-Milton Fields-								
10 -N ov	2628-69	During Stamp Mill Clean out	2.0	8:09	8:39	30	60	ND	<1000	<0.010
		PS-IWA-Milton Fields-During								
10 -N ov	2628-70	Stamp Mill Clean out	2.0	8:39	11:30	171	342	2	981	0.0029
		PS-IWA-Milton Fields-During								
10-Nov	2628-71	Stamp Mill Clean out	2.0	12:16	15:50	214	428	2.5	1226	0.0029

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	pling Ti	mes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample (L)	F/100 Fields	Fibers/Fil ter	Conc F/cc
11-Nov	2628-72	Field Blank						0	<1000	
11-Nov	2628-73	Field Blank						0	<1000	
11-Nov	2628-74	PS-IWA-EXC-Larry Watkins- During Stamp Mill Clean out	2.0	8:53	9:23	30	60	0.5	245	0.0041
11-Nov	2628-75	PS-IWA-Larry Watkins-During Stamp Mill Clean out	2.0	9:23	11:50	147	294	1	490	0.0017
11 -N ov	2628-76	PS-IWA-Larry Watkins-During Stamp Mill Clean out	2.0	13:00	15:11	131	262	ND	<1000	<0.010

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Client: *Terra* Location: Calumet Stamp Mill

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	oling Ti	nes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number			Oli	UII	Totai	(L)	Fields	ter	Conc F/cc
12-Nov	2628-77	Field Blank						0	<1000	
12-Nov	2628-78	Field Blank						0	<1000	
		PS-IWA-EXC-Renee Crane-								
12-Nov	2628-79	During Stamp Mill Clean out	2.0	8:02	8:32	30	60	ND	<1000	<0.010
		PS-IWA-Renee Crane-During								
12-Nov	2628-80	Stamp Mill Clean out	2.0	8:32	11:50	198	396	1	490	0.0012
		PS-IWA-Renee Crane-During								
12-Nov	2628-81	Stamp Mill Clean out	2.0	12:45		-765	-1530		0	0.0000

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected

I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	pling Ti	nes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
			(=,			Total	(L)	Fields	ter	Conc F/cc
14-Nov	2628-82	Field Blank						0	<1000	
14-Nov	2628-83	Field Blank						0	<1000	
		PS-IWA-EXC-Milton Fields-								
14-Nov	2628-84	During Stamp Mill Clean out	2.0	8:14	8:44	30	60	2.5	1226	0.0204
		PS-IWA-EXC-Jonathan Narhi-								
		From Skid Steer during Clean								
14-Nov	2628-85	out	2.0	8:01	8:31	30	60	ND	<1000	<0.010
		PS-IWA-Milton Fields-During								
14-Nov	2628-86	Stamp Mill Clean out	2.0	8:44	11:50	186	372	3	1471	0.0040
		PS-IWA-Wayne Bourdeau-Mini								
14-Nov	2628-87	Ex- During Clean out	2.0	8:31	11:51	200	400	ND	<1000	<0.010
		PS-IWA-Milton Fields-During								
14-Nov	2628-88	Stamp Mill Clean out	2.0	12:39	15:44	185	370	2	981	0.0027
		PS-IWA-Jonathan Narhi-Skid								
14-Nov	2628-89	Steer during Clean out	2.0	12:38	15:38	180	360	2	981	0.0027
·		•	•						•	•

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal

ND- None Detected

I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	<u>Sam</u>	oling Ti	mes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number					TOtal	(L)	Fields	ter	Conc F/cc
15 -N ov	2628-90	Field Blank						0	<1000	
15-Nov	2628-91	Field Blank						0	<1000	
		PS-IWA-EXC-Larry Watkins-								
15-Nov	2628-92	During Stamp Mill Clean out	2.0	10:52	11:21	29	58	ND	<1000	<0.010
		PS-IWA-Brian Bonen-From								
		Front Loader during Soil Load								
15-Nov	2628-93	out	2.0	8:19	15:53	454	908	4.5	2207	0.0024
		PS-IWA-Larry Watkins-During								
15 -N ov	2628-94	Stamp Mill Clean out	2.0	11:21	11:49	28	56	1	490	0.0088
		PS-IWA-Renee Crane-During								
15-Nov	2628-95	Stamp Mill Clean out	2.0	12:45	15:54	189	378	0.5	245	0.0006

*-Client

PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Client: *Terra* Location: Calumet Stamp Mill

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	<u>Sam</u>	pling Ti	mes_				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
2010	Number				OII	Total	(L)	Fields	ter	Conc F/cc
16-Nov	2628-96	Field Blank						0	<1000	
16-Nov	2628-97	Field Blank						0	<1000	
		PS-IWA-EXC-Renee Crane-								
16-Nov	2628-98	During Stamp Mill Clean out	2.0	8:15	8:45	30	60	0.5	245	0.0041
		PS-IWA-Renee Crane-During								
16-Nov	2628-99	Stamp Mill Clean out	2.0	8:45	11:48	183	366	1	490	0.0013
		PS-IWA-Renee Crane-During								
16-Nov	2628-100	Stamp Mill Clean out	2.0	12:38	15:52	194	388	ND	<1000	<0.010

*-Client PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	oling Ti	<u>nes</u>				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
			(=)		on	Total	(L)	Fields	ter	Conc F/cc
17-Nov	2628-101	Field Blank						0	<1000	
17-Nov	2628-102	Field Blank						1	<1000	
		PS-IWA-EXC-Renee Crane-								
17-Nov	2628-103	During Stanp Mill Clean out	2.0	8:47	9:17	30	60	ND	<1000	<0.010
		PS-IWA-Renee Crane-During								
17-Nov	2628-104	Stamp Mill Clean out	2.0	9:17	11:45	148	296	0.5	245	0.0008
17-Nov	2628-105	PS-IWA-Renee Crane-During Stamp Mill Clean out	2.0	12:50	15:46	176	352	ND	<1000	<0.010

*-Client

PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	<u>Sam</u>	pling Ti	nes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample		Fibers/Fil	
			· /	•	•		(L)	Fields	ter	Conc F/cc
18-Nov	2628-106	Field Blank						0	<1000	
18-Nov	2628-107	Field Blank						0	<1000	
		PS-IWA-EXC-Renee Crane-								
18-Nov	2628-108	During Stamp Mill Clean out	2.0	8:33	9:02	29	58	0.5	245	0.0042
		PS-IWA-Renee Crane-During								
18-Nov	2628-109	Stamp Mill Clean out	2.0	9:02	11:40	158	316	ND	<1000	<0.010
18-Nov	2628-110	PS-IWA-Larry Watkins-During Stamp Mill Clean out	2.0	12:40	15:15	155	310	ND	<1000	<0.010
		-								

*-Client

PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

Date	ATCS		Flow	Sam	pling Ti	nes				
2016	Number	Sample Description	(LPM)	On	Off	Total	Sample	F/100	Fibers/Fil	
			·	•	•		(L)	Fields	ter	Conc F/cc
21-Nov	2628-111	Field Blank						0	<1000	
21-Nov	2628-112	Field Blank						0	<1000	
		PS-IWA-EXC-Milton Fields-								
21-Nov	2628-113	During Stamp Mill Clean out	2.0	8:53	9:23	30	60	ND	<1000	<0.010
		PS-IWA-Milton Fields-During								
21-Nov	2628-114	Stamp Mill Clean out	2.0	9:23	11:47	144	288	1	490	0.0017
21-Nov	2628-115	PS-IWA-Milton Fields-During Stamp Mill Clean out	2.0	12:46	15:53	187	374	2.5	1226	0.0033
211107	2020 110		2.0	12.40	10.00	101	0/4	2.0	1220	

*-Client

PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.

Parameter: Airborne fibers greater than five microns in length

	Sample Description	Flow	Sampling Times						
ATCS Number		(LPM)	On	Off	Total	Sample		Fibers/Fil	
				•		(L)	Fields	ter	Conc F/cc
2628-116	Field Blank						0	<1000	
628-117	Field Blank						0	<1000	
	PS-IWA-EXC-Larry Watkins-								
2628-118	During Stamp Mill Clean out	2.0	9:04	9:34	30	60	ND	<1000	<0.010
	PS-IWA-Larry Watkins-During								
628-119	Stamp Mill Clean out	2.0	9:34	11:00	86	172	ND	<1000	<0.010
		2.0	11:45	15:05	200	400	ND	<1000	<0.010
20	528-117 528-118 528-119	528-117 Field Blank PS-IWA-EXC-Larry Watkins- 528-118 During Stamp Mill Clean out PS-IWA-Larry Watkins-During 528-119 Stamp Mill Clean out PS-IWA-Larry Watkins-During	528-117 Field Blank PS-IWA-EXC-Larry Watkins- 528-118 During Stamp Mill Clean out PS-IWA-Larry Watkins-During 528-119 Stamp Mill Clean out PS-IWA-Larry Watkins-During 528-119 PS-IWA-Larry Watkins-During PS-IWA-Larry Watkins-During	528-117Field BlankPS-IWA-EXC-Larry Watkins- 528-1182.09:04PS-IWA-Larry Watkins-DuringFS-IWA-Larry Watkins-During 528-1192.09:34PS-IWA-Larry Watkins-During	528-117Field Blank528-117Field BlankPS-IWA-EXC-Larry Watkins- 528-1182.09:049:34PS-IWA-Larry Watkins-During 528-1192.0528-119Stamp Mill Clean out2.09:3411:00PS-IWA-Larry Watkins-During2.0	528-117Field BlankPS-IWA-EXC-Larry Watkins- 528-1182.09:049:34309:04PS-IWA-Larry Watkins-During 528-1192.0528-119Stamp Mill Clean out2.09:3411:0086PS-IWA-Larry Watkins-During	528-116Field Blank528-117Field Blank528-117Field Blank528-118PS-IWA-EXC-Larry Watkins- During Stamp Mill Clean out528-118During Stamp Mill Clean out528-119Stamp Mill Clean out528-119 <td< td=""><td>528-116 Field Blank 0 528-117 Field Blank 0 528-117 Field Blank 0 528-117 Field Blank 0 528-118 During Stamp Mill Clean out 2.0 9:04 9:34 30 60 ND 528-119 Stamp Mill Clean out 2.0 9:34 11:00 86 172 ND PS-IWA-Larry Watkins-During 2.0 9:34 11:00 86 172 ND</td><td>528-116 Field Blank 0 <1000 528-117 Field Blank 0 <1000</td> 528-117 Field Blank 0 <1000</td<>	528-116 Field Blank 0 528-117 Field Blank 0 528-117 Field Blank 0 528-117 Field Blank 0 528-118 During Stamp Mill Clean out 2.0 9:04 9:34 30 60 ND 528-119 Stamp Mill Clean out 2.0 9:34 11:00 86 172 ND PS-IWA-Larry Watkins-During 2.0 9:34 11:00 86 172 ND	528-116 Field Blank 0 <1000 528-117 Field Blank 0 <1000

*-Client

PS-Personal Sample AS-Area Sample PA-Post Abatement OWA-Outside Work Area IWA- Inside Work Area GBR- Glove Bag Removal ND- None Detected I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Patrick A Finn Industrial Hygiene Technician Analytical Testing & Consulting Services, Inc.



AIR MONITORING

ra Contracting

Parameter: Airborne fibers greater than five microns in length

MUSICE REPORT

100 100 1

	Flow	Sampling Times			Sample	F/100	Fibers /	
ample Description	(LPM)	On	Off	Total	(L)	Fields	Filter	Conc F/cc
Henriksen Mastic Removal	2.0	8:30	9:00	30	60	1	490	0.0082
Henriksen Mastic Removal	2.0	9:00	16:00	420	840	0	0	0.0000
Field Blank		NE 065				o		h
arry Watkins Mastic	2.0	8:30	9:00	30	60	1	490	0.0082
arry Watkins Mastic	2.0	9:00	16:00	420	840	ូ3	1471	0.0018
Milton Fields Mastic	2.0	9:15	9:45	30	60	0	0	0.0000
Milton Fields Mastic	2.0	9:45	16.15	390	780	0.5	245	0.0003
Field Blank	2					o	1.1	
Field Blank					: <u> </u>	0	1.75	

I hereby certify that the above fiber counts were performed in strict confidence with applicable standards and regulations.

Douglas A Haase Analytical Testing & Consulting Services, Inc.

APPENDIX G

Dust Monitoring Results

Project Name Site Location:) :			
Site Location:		Calumet Stamp Mill Site	Project Number:	3293161707
B (Lake Linden, Michigan	Instrument ID:	34398
	1/2/14	Time/Background: 0830/Avg. 0,261	Operator:	KLE
Time/Backgro		1300/Avc. 0,283 Time/Background:		
TIME		LOCATION		DETECTION:
	5ta 1			0.27/
	- 5ta 2			0,290
0846 0	114			0.268
	Sta N	<u>'P</u>		0.272
	191			0.269
	Sta M	<u> </u>		0,266
1020 C		· · · · · · · · · · · · · · · · · · ·		0.281
1022 C		· · · · · · · · · · · · · · · · · · ·		01274
1026 C		4.D		0,266
1029 e 1031 e		1 <i>P</i>		0.267
1031 C	\$ 100 T	14		0,263 0,259
1125 C				0,27/
1128 e		9		0,264
1130 e		P		01275
1132 @		3		0.269
1134 @		2		0,254
1137 @		· · · · · · · · · · · · · · · · · · ·		0,259
	2 5fa 1			0,282
1313 10	= Staz	>		0,284
1319 0	a Sta	3		0.281
1317 O		<u>VP</u>		0:279
1320 0	5tar	ſ		0.276
1322 @		14		0,282
1448 3				0,277
1452 5				0,277
	Sta3 Stan			0,283
1 1 7	11,000	Y		0276
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TOTAL DUST FIELD SCREENING LOG								
	Project Name: Calumet Stamp Mill Site Project Numl		Project Number:	3293161676				
Site Locat	ation: Lake Linden, Michigan Instrument ID		34398					
Date:	11/3/16	Time/Background: 0800/ App. 0.276	Operator:	KLC				
Time/Back	ground:	1246/Avy, Ou246 Time/Background:						
TIME		LOCATION		DETECTION:				
CSEHI	@ Station			0.271				
08-42	C 5tation	(MU		0,234				
0845	e 5tation			0,291				
0847	- STarior	NP		02))				
0850	@ Station			0.262				
0854	C 5tatio			0,249				
1030	CEXENUA	Love Point		0263				
1045	C Hand	diging (Now Star, 01)		0,271				
1114	C Stortio	162		0,23/				
1117	C Starton	103		0,226				
		MNP		0,248				
1120		bn 04		0.27/				
1121	the second s	in MG		0,210				
1256	@ staion			0.247				
1259		102		0.244				
1301		03		0,263				
1302	C Station			0.241				
1304	@ Statio	1 04		0,246				
1305	@ Stativ	MU		0,247				
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Notes:	L		7					
NULES.	pay w	as Misty all Day No visible Dues						

		TOTAL	DUST FIELD SCREENI	NG LOG	
Project Na	me:		net Stamp Mill Site	Project Number:	3293161676
Site Locati	on:	Lake	Linden, Michigan	Instrument ID:	34388
Date:	11/4/16	Time/Background:	0854/0254	Operator:	
Time/Back	ground:	1231/0,286	Time/Back	ground:	
TIME			LOCATION		DETECTION:
0914	@ Statio	n 01			0256
0917		on 02			0,253
0919		KM 03			0.254
0920		ion NP			0.257
0922	C.5+1+15.				0.256
0923		on MU		and the second	0,255
1029		1MG			0,26/
1030		m 04			01212
1032	C Startion	103			0,226
1033	C Stertion	INP			0,227
	C Station			······································	0,272
1038	Neur 5te		· · · · · · · · · · · · · · · · · · ·		0,251
1247	@ Startio				0,277
1249	A 17 1	<u>MO2</u>			0.281
1251	C Stertion	<u>n03</u>	10484344494444	· · · · · · · · · · · · · · · · · · ·	0,-2879
1256		NP	A		0,270
12594		m 04 m Ma		· · · · · · · · · · · · · · · · · · ·	0.263
1433		MU			0,288
- Constanting of the second	C Station			······································	0.242
1436	a Station			······································	0.242
		NP			0,244
1.	@ Gration	02			0,241
	CStation				0:253
					0.249
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Shut 1	lorein of	ust causily	process. Wil w	afer Tomonder	/

		TOTAL DUST FIELD SCREENING LOG		5
Project Nar	me:	Calumet Stamp Mill Site	Project Number:	3293161676
Site Locatio		Lake Linden, Michigan	Instrument ID:	39398
	11/7/14	Time/Background: 1015 Aver 0,286	Operator:	Am
Time/Back		Time/Background:		
TIME		LOCATION		DETECTION:
10:30	Wella	r shilon	·····	0, 329 ms/m
10:32	ORR	m monitor location		0,255 min
16:35	03 80	m Monitor location		0.255 mg/m 0.268 mg/m 0.270 mg/m
10:42	Depos	e e e e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·	0.270 ms/m
11:35	Weither	-station		0.300 mil
11:37	026	rem monitor location		0,279 milm
11.40		cm monitor location		0,260m3/0
11:45	Depot			0,280 m/m3
W12:35		- station		0,267 mj/2
13:20		CM MON, LOR location		O. ZYBAN/2
1240		cm manitor locution		0, 7-79-1, 1
13:217		PCM manifor Gration		0,255 mm
15.45	Doont			0.272 mil
15:21	1 voulto	r cliver	······································	O,ZGIMSIM
15.25	01 0	r studion CM Monitor location		O.ZCOms/m
5:25		2cm Monitor location	· · · · · · · · · · · · · · · · · · ·	0,260 ms/1
\$5.29	OU	fem monitor location.	· · · · · · · · · · · · · · · · · · ·	0, 268 Mg/
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	a de de ministra	TOTAL DUST FIELD SCREENING LOG		
Project Na	ime:	Calumet Stamp Mill Site	Project Number:	3293161707
Site Locat		Lake Linden, Michigan	Instrument ID:	34398
Date:	11/8/16	Time/Background: 0816/01294	Operator:	KLC
Time/Back	ground:	1348/0,311 Time/Background:	·	
TIME	<u> </u>	LOCATION		DETECTION:
0821	Sty 1			0,299
0824	Sta Z	 Non-second second se Second second sec		0.362
0824	5+03			0.312
0828	Sta NF	2		0304
0830	3fa 4			0,306
0832	StaML	1		0,301
1041	Star 1	k		0292
104/4	Gra 2			0.296
1044	Sta 3			0291
1048	Sta NP			0288
1050	5794			0,296
1052	Sta MU	/		0.291
1354	Sta 1	,		0,310
1357	3/42			0,299
1359	5+93			0,311
1401	Sta NP			0,313
1404	Sta 4	n nada man an ananan an an an an an an an an an		0,306
1406	SFAMU			0.300
1522	Stal			0,218
1526	Stor 2			0.292
1528	54a 3			0,283
1530	Sty NP			0,28-4
1932	5/44			0,288
1534	Sta MU			0282

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Notes:	•			

		TOTAL DUST FIELD SCREENING LOG	· · · · ·	
Project Na	me:	Calumet Stamp Mill Site	Project Number:	3293161707
Site Locatio	on:	Lake Linden, Michigan	Instrument ID:	
Date:	119/14	Time/Background: 09/0/0,296 1359/0,302 Time/Background:	Operator:	KLC
Time/Back	ground:	1359/0,302 Time/Background:	•	
TIME		LOCATION		DETECTION:
6921	3.ta 1		a i . i	0,287
0924	Sta 2			0,284
0924	549 3			0,283
6928	Stant	9		0,288
6930	5ter 4			0,281
0932	Sta MU			0282
1114	Sty 1			0,278
1118	5/92			0,276
1120	5/4 3			0,281
1122	Sty NP			0,274
M24	5-10 4			0,277
1126	Sto MU			0,279
1408	Sta 1			0,279 0.309
1411	54 2			0.301
1414	Star 3			0,299
1416	Ster SUF	2	· · · · · · · · · · · · · ·	0,303
1415	5 fer 4			0,302
1420	Sta MU		· · · ·	0,301
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	TOTAL DUST FIELD SCREENING LOG		
Project Name:	Calumet Stamp Mill Site	Project Number:	3293161707
Site Location:	Lake Linden, Michigan	Instrument ID:	034398
Date: ////2/)6	Time/Background: 8:30 0,353	Operator:	An
Time/Background:	Time/Background:		
TIME	LOCATION		DETECTION:
8:38 Weiler	Stution		0,2617
08:51 02	monitorne location	······································	0,250
09:53 03	manilorize location		0.355
0956 04	nonitorady location		0.254
08.59 0000			0.270
11:18 Weille			0.261
11:22 02 0	nonitorine location	**************************************	0.260
11:24 03 m	Apitoring marting	a contraction and a south	0,273
11.26 04 0	von therive loce Lion		0.2171
11:28 Repar			0.262
14:10 Werle			0.260
14:21 02	monitory location		0,535
14:25 03	maniforme location		0.269
1412904 A	Jonitoring location		0,264
141:32 pepot.	. 0		0.256
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Notes:		······································	

TOTAL DUST FIELD SCREENING LOG					
Project Na	me:	Calumet Stamp Mill Site	Project Number:	3293161707	
Site Locati	on:	Lake Linden, Michigan	Instrument ID:		
Date:	11/14/16	Time/Background:	Operator:	AM	
Time/Back	ground:	8.54 1 0.293 Time/Background:	·······		
TIME		LOCATION		DETECTION:	
9:00	weathe	r stetion		0.258	
0908	02	monitoring Station		0.262	
0910.	03	manifoling Station		0-263	
0914	oŭ "	nonthering shiph		0,264	
0915	D:00	¥) =		0.264	
1124	weite			0.260	
1130	02	monitoring		0.254	
1134	03			0,254	
1138	04			0.254	
1121	Depot		Mit	0.262	
1357		FR STATION		0,258	
1405		MONITOR STATION		0-260	
1408		IONITOR STATION)		0,259	
1410		IONITOR_STATION		0,260	
141B	PEI	<i>6</i> ′′		0.264	
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		TOTAL DUST FIELD SCREENING LOG		
Project Na	me:	Calumet Stamp Mill Site	Project Number:	3293161707
Site Location	on:	Lake Linden, Michigan	Instrument ID:	034398
Date:	MISIR	Time/Background: 9:02 (7,280	Operator:	AM
Time/Back		Time/Background:		· · · · · · · · · · · · · · · · · · ·
TIME		LOCATION		DETECTION:
9:05	Wecth		<u></u>	0.211
an: 69		vonitoring Station	112 112 112 1 12 12 12 12 12 12 12 12 12	0, 3,18
2:11		nonitoring station		0.277
9:13				0.283
9:15	DEDUL	horitoring station		0.275
1032	AL FARTH	ER STATION	······································	0.175
10312	O2 M	ONITORING STATION		0.275
1038	03 M	LANDARAN SHATAN	<u></u>	0.275
10100	04 M	ONITORING STATTON		0,275
104 I WILL	DEPO	T		0.278
EU44		T Stellion		0.275
14:13	NU UNITRE	r stellar onitoring stellar		0.27
14:15	02 no	n'torne sterion	· · · · · · · · · · · · · · · · · · ·	
14:15	OU N	contern Stelin		0,283
14:19	Der T	Conidenty Sterion		0.278
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	TOTAL DUST FIELD SCREENING LOG					
Project Na		Calumet Stamp Mill Site	Project Number:	3293161707		
Site Locati	on:	Lake Linden, Michigan	Instrument ID:	034348		
Date:		Time/Background:	Operator:	Am		
Time/Back		9:23 0,403 Time/Background:		· · · · · · · · · · · · · · · · · · ·		
TIME		LOCATION		DETECTION:		
9:25		er station		0.520		
9:30		onitoring Station		0.542		
9:31		nonitoring station		0.483		
4:23		nonitoude Station		0,921		
9:36	Depo			0.481		
11:02		- Stellon		0,291		
11:08		onitorine Station		0.314		
11:12	04 0	nonitoriza station		0.302 6,308		
11:14	nepo	L. United the second se		0,300		
12:50		er station	·····	0.294		
13:00		nonitoring Station		0.292		
13:02	12	monitoring Station		0 294		
13:04	03 64 r	nonitoring Station Ionitoring Station		0.300		
13:06	Ripo +			0.295		
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TOTAL DUST FIELD SCREENING LOG					
Project Na		Calumet Stamp Mill Site	Project Number:	3293161707	
Site Locati	on:	Lake Linden, Michigan	Instrument ID:	023870	
Date:	11/17/16	Time/Background:	Operator:	AM	
Time/Back		9:28 0,069 Time/Background:			
TIME	· · · · · · · · · · · · · · · · · · ·	LOCATION		DETECTION:	
9:30	Weathe			0,015	
9:33	02 0	nonitorina Station		0-065	
9:35	03 1	roitation privation	······································	0.050	
a:37		monitorka station	· · · · · · · · · · · · · · · · · · ·	0,046	
a:39	Depot			0,020	
1056	weither	- Shition		0.065	
1100	02 N	lanitoring Stellion		0.063	
1103	-03 m	enitaring Stelion		0.070	
1005	04 ,	nonitoring Stelion		0,065	
1107	pepot	0	·	0.066	
2:38	Weith			650 Q	
Z:31	021	honitoring Station		0.063	
62:34	63 0	noniterrad Stelion		0.072	
02:36	OU n	rapitorine Stulion		0,06.3	
02.39	Depo-	-·		0,066	
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TOTAL DUST FIELD SCREENING LOG					
Project Na	me:	Calumet Stamp	Mill Site	Project Number:	3293161707
Site Locati	on:	Lake Linden, M	lichigan	Instrument ID:	23890
Date:	11/2/16	Time/Background: 13:30	0,046	Operator:	AM
Time/Back	ground:		Time/Background:		
TIME		LOCA	TION		DETECTION:
13:23	weelle	r station			0.033
13:26	020	nonitory Station	·····		0.030
13.28	JB A	pariloning station		<pre></pre>	2,009
13:30	oun	anthoning station	······································		0.025
(3:32	Depot	- 0		******	0,004
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Project Nai	me:	Calumet Stamp Mill Site	Project Number:	3293161707
Site Locatio		Lake Linden, Michigan	Instrument ID:	023870
Date:	11/22/16	Time/Background: 8:48 0,044	Operator:	AM
Time/Back	ground:	Time/Backgrou		
TIME	<u>—————————————————————————————————————</u>	LOCATION		DETECTION
3:44	120120	r Stution		6.067
5:48		initering Station		007
3:50	00	varilaring Stedion	······································	0 024
2.52		nitaring Ste Lion		0,242
8:54	DODT			0,041
10:54	weetter	Stillion		0006
10:59		onitoring stetion		0.008
11:01		wonituring station	· · · · · · · · · · · · · · · · · · ·	0,007
1:03		an itering Station		0.4016
1:05	Depot			0.009
13:24	vie atte	r Station		0.034
13:20		unitaring station		0.014
13:30		milering USLe Lion	· · · · · · · · · · · · · · · · · · ·	0.015
13:33	OU no	pripering Station		01 37
13:35	Depot			0.060
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Project Na	me:	Calur	net Stamp Mill Site	Project Number:	3293161707
Site Locati	on: , ,	Lake	Linden, Michigan	Instrument ID:	
Date:	11/28/16	Time/Background:		Operator:	KLE
Time/Back	ground:		Time/Background:		
TIME	A	· · · · · · · · · · · · · · · · · · ·	LOCATION		DETECTION:
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Project Name:       Calumet Stamp Mill Site       Project Number:       3293161707         Date:       [1/24///]       Time/Background:       Instrument ID:       2293161707         Date:       [1/24///]       Time/Background:       Operator:       K&C         Time/Background:       Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:         TIME       LOCATION       DETECTION:       Instrument ID:       Instrument ID:       Instrument ID:         Mode       Monubering:       Dure:       Instrument ID:       Instrument ID:       Instrument ID:         Mode       Monubering:       Dure:       Instrument ID:       Instrument ID:       Instrument ID:         Mode       Monubering:       Dure:       Instrument ID:       Instrument ID:       Instrument ID:         Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:         Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:         Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:         Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:       Instrument ID:         Instrument ID:	TOTAL DUST FIELD SCREENING LOG							
Ste Location:       Instrument ID:         Date:       I/L2g/L/L       Operator:       I/L2         Time/Background:       Time/Background:       DETECTION:       I/L2         TIME       LOCATION       DETECTION:         Image:       Image:       Image:       Image:         Image:       Image:       Image:       Image:       Image:         Image:       Image:       Image:       Image:       Image:       Image:         Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:	Project Na	me:	Calumet S	Stamp Mill Site		Project Number:	3293161707	
Date:     1/24///     Time/Background:     Operator:     Kc       TIME     LOCATION     DETECTION:       TIME     LOCATION     DETECTION:       Monitority     Dure     Raim       Monitority     Dure     Raim       Image: State of the stat	Site Locat	on:	Lake Lind	den, Michigan		Instrument ID:		
Time/Background:       DETECTION:         TIME       LOCATION       DETECTION:         Month Market       Market       Detection:         Month Market       Market       Market         Month Market       Market       Market         Month Market       Market       Market         Market       Market		11/24/16	Time/Background:		• • • • • • •	Operator:	KLC	
TIME     LOCATION     DETECTION:       Image: state		ground:	<u> </u>	Time/Bac	ckaround [.]			
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TOTAL DUST FIELD SCREENING LOG						
Project Na	me:	Calumet Stamp Mill Site	Project Number:	3293161707		
Site Locati		Lake Linden, Michigan	Instrument ID:	023870		
Date:	11/30/16	Time/Background: 10!19 / O, O15	Operator:	AM		
Time/Back	ground:	Time/Background:	- []			
TIME	<u> </u>	LOCATION		DETECTION:		
10:21	headless	Shillion		0,022		
10:204		saitoring stution		0.034		
10.26		onitoring Station		0.026		
10:28	09 m	on itering Station		0.022		
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10:30	Depot			0.021		
13:51	weither	Stution		0. 015		
13:55	0ª non	, laving stution		0.018		
13:57		NI LOTTAS JULIKA		0.020		
13:59	ou man	itering stution		0.018		
14:00	Depot			0.015		
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Notes:	Note 1	from 15:00-End of Day Rain.				
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Project Name: Calumet Stamp Mill Site Project Number: 3233161707 Lake Linden, Michigan Instrument ID: Operator: ####################################			TOTAL DUST FIELD SCREENIN	NG LOG		
Site Location: Instrument ID: Date: /2/2/// Operator: %2 Time/Background: ITime/Background: Detect: %2 Time/Background: LOCATION DETECTION: MB Wetst Home/Background: DETECTION: State: is Metst State: State: State: is Metst State: State: State: State: is Metst State: State	Project Na	me:	Calumet Stamp Mill Site		Project Number:	3293161707
Time/Background: DETECTION TIME LOCATION DETECTION: Image: Analytic Action of the instruction of the instructi	Site Locati	on:	Lake Linden, Michigan		Instrument ID:	
TIME LOCATION DETECTION: Ab Drivet Momber of Site	Date:	12/2/14	Time/Background:		Operator:	KLC
Ab Unit Mombering. Friekk Abbergon off Site Site is Wet + Snowing 	Time/Back	ground:	Time/Backg	ground:		
Frinkle Askerske off Site	TIME		LOCATION			DETECTION:
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<u>Site is Wet + Snowing</u>						
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	TOTAL	DUST FIELD SCREENING	G LOG	
Project Name:	Calum	et Stamp Mill Site	Project Number:	329316170
Site Location:		Linden, Michigan	Instrument ID:	023970
Date: 4/14/			Operator:	KLC
Time/Background:	1300/0.011	Time/Backgro	ound: 1617/0.012	
TIME		LOCATION		DETECTION
	>/			01004
	2			0,008
	0.3			0,003
1038 5/4 1	94NP			0,002
	04			0.006
1044 544	Mil	·		0.004
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13/9 3/2 1	UP			0:009
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		TOTAL DUST FIELD SCREENING LOG		
Project Na	ime:	Calumet Stamp Mill Site	Project Number:	3293161707
Site Locati		Lake Linden, Michigan	Instrument ID:	
	4/25/17	Time/Background: 0900/0,014	Operator:	
Time/Back	around:	1330/01017 Time/Background:	1640/0.016	- The configure
TIME	<u> </u>	LOCATION		DETECTION:
0904	5401			0,012
0907	54 02			0.013
0909	Sta 03			01011
0910	Sty NP			0.012
09/3	3th 04			0.013
0914	Sta MU			0.013
1332	St. 01			0.017
1334	5602			0.018
1336	5ta 03			0.016
1337	Sty NP			0.014
1340	5ta.04			0.015
1342	Sty MU	····		0,013
1644	5tr.01			01018
1646	54.02			0,015
1448	5403			0.016
1649	Sta NP			0,015
1651	Sty OH			6,617
1653	St. MU			0.015
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TOTAL DUST FIELD SCREENING LOG						
Project Na	me:	Calumet Stamp Mill Site	Project Number:	3293161707		
Site Locati	on:	Lake Linden, Michigan	Instrument ID:			
Date:	4126/17	Time/Background:	Operator:	KLC		
Time/Back	around:	Time/Background				
TIME		LOCATION		DETECTION		
	Dust	LOCATION Monitoring Caused Due To Z	ain			
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APPENDIX H

Contracts



Sold / Bill To: Honeywell International Inc.		Purcha	se orde	er
115 Tabor Road MORRIS PLAINS NJ 07950	Number	Ver	sion Date	•
USA	45001802	94 0	05-	MAY-2016
HFM :100101	shipping docum this order. Un Purchase Order	ents and notices, bills on ess prohibited by law all Payment terms sha	of lading, and all or otherwise ind Il commence fro	umber must appear on al I correspondence related to dicated on the face of thi m the date upon which both to - mailing" address and ir
Vendor Address: AMEC E AND I INC 511 CONGRESS ST STE 200 MACTEC ENGINEERING AND CONSULTING INC CUMBERLAND PORTLAND 04101-3428	accordance with normally schedu are received in o This Purchase	the Net terms of paym aled twice monthly payr conformance with the Pu Order is subject to a urchase attached which	nent indicated be nent runs and (i Irchase Order. nd governed b	elow subject to Honeywell's elow subject to Honeywell's ii) all goods and/or services y the General Terms and corporated and form part o
ME	Bill To - mailin	a address:		
US Your Vendor Number with us: 1006933		on#t send invoice		
Ship to:	Honeywell Co	ntact:		
1101 CoCOde Honeywell International Inc. Chuck Geadelmann	Buyer: Requisitioner:	Raj Ghaisas Raj.Ghaisas⊚ Harsha Uteka	Honeywell.cor	n
HIGHWAY M-26 TORCH LAKE MI 49934	Requisitioner.		lmann@Honey	well.com
USA	Accts Payable:	Tel: 480 598 9071 Email: AP.Corpsap@		n
Currency : USD	IET IN 105 DAYS Free Carrier) /FREE CARRIE	R		

PO Header Text

"The Scope and Performance of the work outlined in the attached Purchase Order shall be performed and governed by the Alliance Master Environmental Services Agreement dated 4/1/2011.".

Item	Material/Description	Quantity	UoM	Unit Price	Net Amount	ТАХ
10	R37156-01100 PS Identification/Site His	40,752.00	AU	1.00 / AU	40,752.00	N
	Delivery Date:	14-MAY-2016				
	Site: HECLA MINING (TORCH LAKE) Musuem Property- initial project set up Invoice send to Chuck Geadelmann (Honeywell- 19	985 Douglas Drive No	rth, Dock 1, G	olden Valley, MN 55422)		
20	R37156-02100 REMEDIAL INVESTIGATION	88,599.00	AU	1.00 / AU	88,599.00	N
	Delivery Date:	14-MAY-2016				
	Site: HECLA MINING (TORCH LAKE)					



Sold / E Honeyw	Sill To: /ell International Inc.		Purchase order					
	oor Road	Number		Version	Date			
USA	S PLAINS NJ 07950	45001	80294	0	05-MAY-2016			
		shipping of this order Purchase (i) a corre accordanc normally s are receiv This Purc Conditions	Honeywell's Purchase Order number and line item number must appear on a shipping documents and notices, bills of lading, and all correspondence related to this order. Unless prohibited by law or otherwise indicated on the face of the Purchase Order, all Payment terms shall commence from the date upon which bot (i) a correct invoice is received at the specified "Credit to - mailing" address and accordance with the Net terms of payment indicated below subject to Honeywell normally scheduled twice monthly payment runs and (ii) all goods and/or service are received in conformance with the Purchase Order. This Purchase Order is subject to and governed by the General Terms and Conditions of Purchase attached which are hereby incorporated and form part of this purchase order.					
	Musuem Property- initial project s Invoice send to Chuck Geadelma	et up nn (Honeywell- 1985 Douglas Drive N	orth, Dock 1, G	Golden Valley, MN 554	422)			
30	R37156-09400 Adm/Gen Alliance	14,058.00 e incentives	AU	1.00 / AU	14,058.00	N		
	Delivery Date:	14-MAY-2016						
	Incentive Fees	Site: HECLA MINING (TORCH LAKE) Incentive Fees Invoice send to Chuck Geadelmann (Honeywell- 1985 Douglas Drive North, Dock 1, Golden Valley, MN 55422)						
		Total ne	t value excl. tax	(USD 143,409.00			



GENERAL TERMS AND CONDITIONS OF PURCHASE (Rev. 2014-03-14)

-Corporate-

Acceptance - Order of Precedence - Modification 1.

This purchase order ("Purchase Order") is for the purchase of goods, services, or both as described on the face of this Purchase Order (collectively, "Goods") and is issued by the member of the Honeywell International Inc. group of companies identified on the face of this Purchase Order ("Honeywell") This Purchase Order is deemed accepted when the supplier to which this Purchase Order is issued ("Supplier") returns the acknowledgment copy of this Purchase Order or begins performing, whichever is earlier. Honeywell rejects any additional or inconsistent terms and conditions offered by Supplier at any time. Any reference to Supplier's quotation, bid, or proposal does not imply acceptance of any term, condition, or instruction contained in that document.

These terms and conditions together with the specifications, drawings, or other documents referred to on the face of the Purchase Order, or attached, or any documents incorporated by reference, supersede any prior or contemporaneous communications, representations, promises, or negotiations, whether oral or written, respecting the subject matter of this Purchase Order. All contract documents related to this Purchase Order are interpreted together as one agreement. But if there is an irreconcilable conflict among the provisions of those contract documents, the following order of precedence applies: a) contract documents signed by both parties; b) the face of the Purchase Order and any supplemental terms included or incorporated by reference; then c) these general Purchase Order provisions. No modification of this Purchase Order will be binding on either Party unless set forth in a writing signed by an authorized representative of both Parties specifically stating it is amending this Purchase Order. No course of dealing, prior dealings, usage of trade or course of performance will be used to modify, supplement or explain any terms used in this Purchase Order

Delivery, Shipment and Packaging 2.

2.1 Supplier will deliver Goods in the quantities and on the date(s) specified on the Purchase Order or Purchase Order schedule releases. If delivery dates are not stated, Supplier will offer its best delivery date(s), which will be subject to acceptance by Honeywell. Unless otherwise directed, all Goods shipped in one day from and to a single location must be consolidated on one bill of lading or air waybill, as appropriate.

If the delivery schedule is endangered for any reason other than 2.2

Honeywell's fault, then Supplier will, at its expense, deliver Goods by the most expeditious shipping method. Honeywell reserves the right to reject, at no expense to Honeywell, all or any part of any delivery that varies from the quantity authorized by Honeywell for shipment. Supplier will not make any substitutions without Honeywell's prior written approval. All items will be packaged according to Honeywell's instructions or, if none, according to good commercial practice in a manner sufficient to ensure receipt in an undamaged condition. Honeywell will not be liable for any discharge, spill or other environmental incident (including clean-up costs) involving any Goods shipped under the Purchase Order unless caused by Honeywell and in no event until delivered to the destination designated by Honeywell. All containers will be properly marked for identification as instructed on Honeywell's Purchase Order and contain a packing slip that details, at a minimum, the Honeywell Purchase Order number(s), product part number, detailed product description, total number of boxes in shipment, quantity of product shipped, and final delivery address. Items shipped in advance of Honeywell's delivery schedule may be returned at Supplier's expense. For domestic shipments, if requested by Honeywell, and for all international shipments, Supplier will give notice of shipment to Honeywell when the Goods are delivered to a carrier for transportation. The Purchase Order number(s) must appear on all correspondence, shipping labels, and shipping documents, including all packing sheets, bills of lading and air waybills.

23 All Goods, unless specifically exempted by the destination country's

governing authorities, must be marked with the country of origin (manufacture) of the Goods in a conspicuous place as legibly, indelibly, and permanently as the nature of the article or container permits. 2.4 Supplier will provide Honeywell with (a) the Harmonized Tariff Schedule

number, country of origin information or certificates, manufacturer's affidavits, applicable free trade agreement ("FTA") certificates, and any other documents or information Honeywell may require to comply with international trade regulations or to lawfully minimize duties, taxes, and fees, and (b) FTA certificates for all Goods that qualify under one or more FTAs. Supplier will provide Honeywell all documents, records, and other supporting information necessary to substantiate the Goods' qualification under an FTA. Supplier will exert reasonable efforts to qualify the Goods under FTAs.

Within one business day after Supplier delivers the Goods to the carrier, Supplier will send Honeywell a complete set of shipping documents including the commercial invoice, packing list, and air waybill, or three original parts of the combined through-bill of lading, clean without notation, necessary to release the Goods to Honeywell's custody.

Notice of Delay 3.

Supplier must immediately notify Honeywell in writing with all information relating to any delay or threatened delay of the timely performance of this Purchase Order

Excusable Delay (Force Maieure)

Neither party will be in default for any delay or failure to perform due to causes beyond its control and without its fault or negligence("Force Majeure Event"), but any delay or failure to perform caused by the default of a sub tier supplier of Supplier will be excused only if (a) it is beyond the control of both Supplier and its sub-tier supplier(s) and without the fault or negligence of any of them, and (b) the Goods to be furnished cannot be obtained from other sources in sufficient time to permit Supplier to meet the delivery schedule. Supplier's ability to sell Goods at a more advantageous price or Supplier's economic hardship in buying materials or processing necessary for manufacture of the Goods, or labor disputes will not constitute an excusable delay event. The party affected by a Force Majeure Event will promptly provide written notice to the other, explaining in detail the full particulars and expected duration of the Force Majeure Event, and will use its best efforts to remedy the delay if it can be remedied. If Supplier's delivery is delayed, Honeywell may, at Honeywell's sole option, cancel deliveries scheduled during the Force Majeure Event or elect to extend the period of performance to cover the period of delay caused by the Force Majeure Event. If a Force Majeure Event occurs that affects delivery of Goods to Honeywell, Supplier will allocate its available supply of Goods in a manner that assures Honeywell of at least the same proportion of Supplier's total output of Goods as was allocated to Honeywell before the Force Majeure Event. If delivery of any Goods is delayed for more than 30 days, Honeywell may, without liability, cancel all or any part of this Purchase Order.

Performance Assurance Plan

If Honeywell, in its sole discretion, determines there is a significant risk that Supplier will fail to meet its performance or delivery requirements under this Purchase Order, Honeywell may require Supplier to perform under a Honeywell Performance Assurance Plan. The Performance Assurance Plan may include specific reporting and performance requirements reasonably tailored to ensure Supplier's adequate performance under identified provisions of this Purchase Order. Any failure by Supplier to satisfy the terms of the Performance Assurance Plan is a material breach of this Purchase Order.

Shipping Terms, Title and Risk of Loss 6.

61 If the Goods will be transported from Supplier's location in the U.S. to Honeywell's location in the U.S., unless otherwise specified on the face of the Purchase Order or in a separate agreement, the F.O.B. point is Honeywell's location. When the F.O.B. point is Supplier's location, Supplier bears all risk of loss or damage to the Goods and title passes to Honeywell upon delivery of the Goods to the carrier designated or approved by Honeywell. When the F.O.B. point is Honeywell's location. Supplier bears all risk of loss or damage to the Goods and title passes to Honeywell upon delivery of the Goods at Honeywell's location.

6.2 In all other cases, unless otherwise specified on the face of the Purchase Order or in a separate agreement, Supplier will deliver the Goods DAP (Incoterms 2010) at Honeywell's location.

6.3 The foregoing does not relieve Supplier of any responsibility for hidden damages discovered after acceptance of the Goods. Notwithstanding the foregoing, title and risk of loss to Goods subject to a consignment stock agreement pass upon release of the Goods from the consignment stock. Honeywell may direct Supplier to ship the Goods to Honeywell or to any third

party designated by Honeywell. **7.** <u>Import/Customs Compliance</u>

Supplier assumes all responsibility and liability for any shipments covered by this Purchase Order requiring any government import clearance. If government authorities declare or otherwise impose countervailing duties, antidumping duties, or retaliatory duties on the Goods imported under this Purchase Order, Honeywell reserves the right to terminate this Purchase Order in accordance with the Termination provisions of this Purchase Order. Supplier will be debited for any duties, fees, or freight incurred by Honeywell due to Supplier's failure to comply with the terms and conditions of this Purchase Order. This clause survives the termination or cancellation of this Purchase Order. 8.

Drawback

All drawback of duties, and rights thereto, related to duties paid by Supplier or Honeywell when the Goods are imported or any materials or components used in manufacturing of the Goods will accrue to the exclusive benefit of Honeywell. Duty drawback rights include rights developed by substitution and duty drawback rights obtained from sub tier suppliers related to the Goods. Supplier will provide Honeywell with all documents, records, and other supporting information necessary to obtain any duty drawback, and will reasonably cooperate with Honeywell to obtain payment.

Offset

Supplier will assist Honeywell in obtaining credit from Supplier's government for the value of relevant Goods purchased to meet any present or future contractual offer or industrial benefit requirements imposed upon Honeywell or its subsidiaries or affiliates, if any. Assistance includes, but is not limited to, providing upon Honeywell's request evidence of the existence, value, content, and other pertinent information relating to the purchases. Honeywell reserves the right to claim these credits for itself or third parties. If Supplier awards any portion of the work in this Purchase Order to any lower tier supplier, Supplier will assign



to Honeywell any credits obtained from the sub-tier supplier's government relating to this transaction, if any, and assist Honeywell in obtaining such credits Honeywell-Supplied Materials, Tooling, Equipment and Technical

Data

10.1 Title to any material, tooling, equipment, or technical data that Honeywell pays for or provides to Supplier or is responsible for providing to Supplier, including replacements ("Honeywell Property") will remain or vest with Honeywell. Supplier will conspicuously label Honeywell Property as such, maintain it in good condition, keep written records of the Honeywell Property in its possession and the location of the property, not allow any liens to be placed upon it, and not change its location without prior written approval from Honeywell. Supplier is responsible for inspecting and determining that the Honeywell Property is in useable and acceptable condition.

Supplier will use Honeywell Property exclusively to fulfill Honeywell 10.2 Purchase Orders unless otherwise authorized in writing by Honeywell's procurement representative. Honeywell Property is intended for use at the Supplier's site only or as otherwise authorized in writing by Honeywell's procurement representative and, to the extent applicable, is subject to U.S. and other government export or re-export requirements. Supplier is responsible for any loss, damage, or destruction of Honeywell Property and any loss, damage or destruction of any third-party property resulting from Supplier's negligent use of Honeywell Property. Supplier will not include the cost of any insurance for Honeywell Property in the prices charged under this Purchase Order. Supplier will return Honeywell Property or dispose of it at Honeywell's sole option as it directs in writing. Honeywell makes no representations and disclaims all warranties (express or implied) with respect to Honeywell Property.

11. Price

Supplier will furnish the Goods at the prices stated on the face of the Purchase Order. If prices are not stated on the face of the Purchase Order, Supplier will offer its lowest prices subject to written acceptance by Honeywell. Unless otherwise provided on the face of the Purchase Order, the prices include all packaging and freight to the specified delivery point; applicable taxes and other government charges including, but not limited to, all sales, use, or excise taxes; and all customs duties, fees, or charges that must be separately itemized on all Supplier invoices. To the extent that value added tax (or any equivalent tax) is properly chargeable on the supply to Honeywell of any Goods, Honeywell will pay the tax as an addition to payments otherwise due Supplier under this Purchase Order, if Supplier provides to Honeywell a value-added tax (or equivalent tax) invoice. To the extent Honeywell has not received from Supplier all applicable forms regarding compliance with applicable tax law, Honeywell reserves the right to deduct from any payment to Supplier pursuant to this Purchase Order those amounts that Honeywell, in its sole discretion, deems to be required to be withheld in order to comply with the tax laws of any applicable jurisdiction.

Price: Most Favored Customer and Meet or Release 12.

Supplier warrants that the prices charged for the Goods delivered under this Purchase Order are the lowest prices charged by Supplier for similar goods. If Supplier charges a lower price for similar goods, Supplier must notify Honeywell and apply that price to all Goods ordered under this Purchase Order by immediately paying Honeywell the price difference and applying the lower price to all Purchase Orders. If at any time before full performance of this Purchase Order Honeywell notifies Supplier in writing that Honeywell has received a written offer from another supplier for similar goods at a price lower than the price set forth in this Purchase Order, Supplier must immediately meet the lower price for any undelivered Goods. If Supplier fails to meet the lower price Honeywell, at its option and in addition to other rights or remedies, may immediately terminate the balance of the Purchase Order without liability.

13. Invoicing and Payment

After each shipment made or service provided, Supplier will submit an invoice listing a description of the Goods provided and, as applicable, part numbers, quantity, unit of measure, hours, and the unit and total prices. All applicable taxes and other government charges including, but no limited to, sales, use, or excise taxes; value added tax, customs duties, fees, and all incidental charges including but not limited to royalties, selling commissions, nonrecurring engineering, or other incidental charges must be separately itemized and identified on the invoice. The invoice must also include the following information in English, or in the destination country's official language if required: (a) name and address of Supplier and the Honeywell entity purchasing the Goods; (b) name of shipper (if different from Supplier); (c) Honeywell's Purchase Order number(s); (d) country of export; (e) detailed description of the Goods; (f) Harmonized Tariff Schedule number; (g) country of origin (manufacture) of the Goods, or if multiple countries of origin, the country of origin of each part shipped; (h) weights of the Goods shipped; (i) currency in which the sale was made; (j) payment terms; (k) shipment terms used; and (l) all rebates or discounts. The invoice will be accompanied (if applicable) by a signed bill of lading or express receipt evidencing shipment. Payment of an invoice does not constitute acceptance of the Goods and is subject to appropriate adjustment should Supplier fail to meet the requirements of the Purchase Order. Payment terms are net 120 days from receipt of invoice and conforming Goods unless otherwise stated on the face of the Purchase Order or other written agreement executed by both parties or as otherwise required by law (in the latter case the payment terms shall be the maximum permitted by law). Payment will be scheduled for the first payment cycle following the net terms for the Purchase Order.

14. Setoff

Honeywell may deduct any amount owing from Supplier to Honeywell as a set off against any amount owing to Supplier under this Purchase Order.

15. Inspection

15 1 All Goods may be inspected and tested by Honeywell, its customers, higher-tier contractors, and end users at all reasonable times and places. If inspection or testing is made on Supplier's premises, Supplier will provide, without charge, all reasonable facilities and assistance required for the inspection and tests. Supplier's standard inspection and testing system must be approved by Honeywell in writing. All inspection and testing records, including sub-tier supplier records relating to the Goods, will be maintained by Supplier and made available to Honeywell during the performance of this Purchase Order, and for such longer periods if specified by Honeywell.

15.2 Final inspection and acceptance by Honeywell will be at destination unless otherwise specified in this Purchase Order. Honeywell may inspect all or a sample of Goods, at its option, and may reject all or any portion of the Goods if Honeywell determines them to be defective or nonconforming within 90 days of delivery. If Honeywell performs any inspection (other than the standard inspection) after discovering defective or nonconforming Goods, any additional inspection costs will be paid by Supplier. No inspection, tests, approval, design approval, or acceptance of the Goods relieves Supplier from responsibility for warranty or any latent or patent defects, fraud, or negligence. If Goods are defective or nonconforming, Honeywell may, by written notice to Supplier rescind this Purchase Order as to the Goods; accept the Goods at an equitable reduction in price; or reject the Goods and require the delivery of replacements. Delivery of replacements will be accompanied by a written notice specifying that the Goods are replacements. If Supplier fails to deliver replacements promptly, Honeywell may correct any retained defective or nonconforming Goods at Supplier's expense; replace them with Goods from another supplier and charge the Supplier the cost thereof, including cover, and any incidental costs; or terminate this Purchase Order for cause.

Warranty 16.

16.1 Supplier warrants to Honeywell, its successors, assigns, customers, and end users that, during the entire Warranty Period specified below, all Goods furnished (including all replacement or corrected Goods or components): will be free from defects in material, workmanship, and design, even if the design has been approved by Honeywell; will conform to applicable drawings, designs, quality control plans, specifications and samples and other descriptions furnished or specified by Honeywell; will be merchantable; be fit for the intended purposes and operate as intended; will comply with all laws; will be free and clear of any and all liens or other encumbrances; will not infringe any patent, published patent application, or other intellectual property rights of any third party; and will not utilize misappropriated third party trade secret information. Goods that do not meet the preceding standards are collectively called "nonconforming Goods." Services will be performed in accordance with the highest standards in the

industry. <u>16.2</u> The Warranty Period is 24 months from the date of delivery to the end user or such longer period of time as may have been accepted by Honeywell from Honeywell's customer or on which any longer government requirement covering the Goods ends. These warranties survive delivery, inspection, acceptance, and payment by Honeywell. Claims for breach of warranty do not accrue until discovery of nonconformingGoods, even if the Goods were previously inspected. Any applicable statute of limitations runs from the date of discovery. Honeywell may, at its election, have the nonconforming Goods repaired, replaced, or corrected at Supplier's expense. Supplier is responsible for the costs of repairing, replacing or correcting nonconforming Goods, and for all related costs, expenses and damages including, without limitation, the costs of removal, disassembly, failure analysis, fault isolation, reinstallation, re-inspection, and retrofit of the nonconforming Goods or of Honeywell's affected end-product; all freight charges; all customer charges; and all corrective action costs. Unless set off by Honeywell, Supplier will reimburse Honeywell for all these costs upon receipt of Honeywell's invoice. The warranties and rights provided are cumulative and in addition to any warranty provided by law or equity.

Supplier represents and warrants that there is nothing that will directly 16.3 indirectly, actually or potentially restrict or prevent Supplier in any way from fulfilling all its obligations, duties, and services under this Purchase Order, including without limitation any exclusivity or non-compete arrangement. **17. Changes**

Honeywell may, by written or electronic notification, direct changes in the drawings, designs, specifications, method of shipment or packing, quantity, or time or place of delivery of the Goods; reschedule the services; or require additional or diminished services. Only authorized Honeywell procurement representatives may issue changes to the Purchase Order. If any change causes an increase or decrease in the cost of, or the time required for, performing this Purchase Order, an equitable adjustment will be made in the Purchase Order price, delivery dates or both, and this Purchase Order will be modified in writing or electronically accordingly. Any claim for adjustment under this provision may, at Honeywell's option, be deemed to be waived unless asserted in writing (including the amount of the claim) and delivered to Honeywell within 30 days from the date of the receipt by Supplier of the Honeywell-directed change to the Purchase Order. If the cost of property made obsolete or excess as a result of a change is paid by Honeywell, Honeywell may prescribe the manner of disposition of the property. Notwithstanding any disagreement between the parties regarding



the impact of a change, Supplier will proceed diligently with its performance under this Purchase Order pending resolution of the disagreement.

Design and Process Changes

Supplier will make no changes in the design, materials, manufacturing location, manufacturing equipment, production process, changes between a manual and automated process, or any other processes related to the Goods specified in the Purchase Order or documents referenced in it, or if none, those in place when the Purchase Order is issued, without the advance written approval of Honeywell's procurement representative.. This requirement applies whether or not the change and regardless of the type of change, including product affects costs improvements.

19 Stop Work

At any time by written notice and at no cost, Honeywell may require Supplier to stop all or any part of the work under this Purchase Order for up to 120 days (Stop Work Order), and for any further period as mutually agreed. Immediately upon receipt of a Stop-Work Order, Supplier will comply with its terms. At any time Honeywell may, in whole or in part, either cancel the Stop Work Order or terminate the work under the Termination section of this Purchase Order. To the extent the Stop Work Order is canceled or expires, Supplier must immediately resume work.

20 Termination

The nonbreaching party may terminate this Purchase Order if the other commits a material breach and fails to remedy the breach within 30 20.1 partv calendar days following receipt of written notice specifying the grounds for the breach, except in the case of breach related to safety, health, or security, in which case Honeywell will have the right to immediately terminate the Order. A material breach includes, but is not limited to, late delivery or delivery of nonconforming Goods. The solvent party may terminate this Purchase Order upon written notice if the other party becomes insolvent or if any petition is filed or proceedings commenced by or against that party relating to bankruptcy, receivership, reorganization, or assignment for the benefit of creditors.

Notwithstanding any firm time period or quantity on the face of the

Purchase Order, Honeywell may terminate this Purchase Order in whole or in part at any time with or without cause for undelivered Goods or unperformed services upon 10 days' prior written notice.

If Honeywell terminates this Purchase Order under either 20.1 or 20.2, 20.3

Honeywell's sole liability to Supplier, and Supplier's sole and exclusive remedy, is payment for Goods received and accepted by Honeywell before the date of termination. The payment can be set off against any damages to Honeywell. Upon termination, Honeywell may require Supplier to transfer title and deliver to Honeywell any completed Goods and Honeywell will pay the Purchase Order price for those Goods subject to set off against any damages to Honeywell. Honeywell may also require Supplier to transfer title and deliver to Honeywell any or all property produced or procured by Supplier to perform this Purchase Order Honeywell will credit Supplier with the reasonable value of the property, but not more than Supplier's actual cost or the Purchase Order value, whichever is less. To the extent that any portion of this Purchase Order is not terminated 20.4 under 20.1 or 20.2 above, Supplier will continue performing that portion.

Cessation of Production 21.

If production of any Good is to be discontinued or suspended within 1 year after final delivery under this Purchase Order, Supplier must give Honeywell as much prior written notice as commercially reasonable of the discontinuance or suspension. For at least 180 days from the discontinuance or suspension, Supplier must accept orders from Honeywell for the Good at the price and on the terms of this Purchase Order.

Indemnifications

General Indemnification

Supplier will, at its expense, defend and indemnify Honeywell and its subsidiaries, affiliates, and agents, and their respective officers, directors, shareholders, employees, and customers (collectively "Indemnitees") from and against any and all loss, cost, damage, claim, or liability, including reasonable attorney and professional fees and costs, and the cost of settlement, compromise, judgment, or verdict incurred by or demanded of an Indemnitee arising out of, resulting from or occurring in connection with Supplier's negligence, willful misconduct, or breach of the terms of this Purchase Order. Indemnitee may participate in the defense or negotiations to protect its interests. Supplier will not enter into any settlement or compromise without Honeywell's prior written consent, which will not be unreasonably withheld.

Intellectual Property Indemnification

For Goods provided under this Purchase Order, Supplier will, at its expense, defend and indemnify Honeywell and its customers (Indemnitee) from and against any and all loss, cost, damage, claim, or liability, including reasonable attorney and professional fees and costs, and the cost of settlement, compromise, judgment, or verdict incurred by or demanded from Indemnitee arising out of, or relating to any alleged or actual: (a) patent, copyright, or trademark infringement; (b) unlawful disclosure, use, or misappropriation of a trade secret; or (c) violation of any other third-party intellectual property right, and from expenses incurred by Indemnitee in defense of such suit, claim, or proceeding if Supplier does not undertake the defense thereof.

22.3 Right to Defend

Supplier will have the right to conduct the defense and settlement of any claim or action described in this Indemnification and Remedies Section if it acknowledges in writing its responsibility for such claim. In no event will Supplier enter into any

settlement without Honeywell's prior written consent, which will not be unreasonably withheld. Indemnitee may participate in a defense or negotiations to protect its interests. If any injunction or restraining order is issued, Supplier will, at its expense, obtain for Indemnitee either the right to continue using and selling the Goods or replace or modify the Goods to make them noninfringing; without any loss of functionality.

23. Insurance

Supplier will maintain and carry liability insurance which includes, but is not limited to, commercial general liability (including product liability and for services to be performed, completed operations liability) in a sum no less than \$5 million, automobile liability in a sum no less than \$5 million, worker's compensation in an amount no less than the applicable statutory minimum requirement, and employer's liability in an amount of no less than \$1 million, with insurance carriers with an AM Bests rating of no less than A- or equivalent. Before delivery of any Goods or commencement of any services under the Purchase Order, Supplier will provide to Honeywell evidence that Supplier maintains the described insurance, and that the coverage will not be changed without 30 days advance written notification to Honeywell from the carrier(s). Except where prohibited by law, Supplier will require its insurers to waive all rights of recovery or subrogation against Honeywell, its subsidiaries and affiliated companies, and its and their respective officers, directors, shareholders, employees, and agents. The amount of insurance carried in compliance with the above requirements is not to be construed as either a limitation on or satisfaction of the indemnification obligation in this Purchase Order.

Confidentiality and Intellectual Property 24.

All information, including without limitation specifications, samples, 24.1 drawings, materials, know-how, designs, processes, and other technical, business, or financial information, that: (a) has been or will be supplied to Supplier by or on behalf of Honeywell; or (b) Supplier will design, develop, or create in connection with this Purchase Order; as to individual items or a combination of components or both, and whether or not completed, and all derivatives of (a) and (b) that Supplier has or will design, develop or create are deemed to be "Confidential Information" of Honeywell. All Confidential Information is work made for hire and made in the course of services rendered. All rights to it belong exclusively to Honeywell, with Honeywell having the sole right to obtain, hold, and renew, in its own name or for its own benefit, patents, copyrights, registrations, or other appropriate protection. To the extent that exclusive title or ownership rights in Confidential Information may not originally vest in Honeywell, Supplier irrevocably assigns transfers and conveys to Honeywell all right, title, and interest therein.

Honeywell's Confidential Information will remain the property of 24.2

Honeywell. It may not be used by Supplier for any purpose other than for performing this Purchase Order, may not be disclosed to any third party, and will be returned to Honeywell upon the earlier of Honeywell's written request or completion of the Purchase Order. If, with Honeywell's prior written approval, Supplier furnishes Confidential Information to a sub-tier supplier, Supplier will bind the sub-tier supplier to confidentiality requirements substantially identical to this provision and Supplier will remain responsible to Honeywell for any breach of this provision by its sub-tier suppliers. No disclosure, description or other communication of any sort will be made by Supplier to any third person of the fact of Honeywell's purchase of Goods under this Purchase Order, the terms of this Purchase Order, the substance of any discussions or negotiations concerning this Purchase Order, or either party's performance under this Purchase Order. 24.3 "Personal Data" means any information relating to an identified or

identifiable natural person; an identifiable person is one who can be identified, directly or indirectly, in particular by reference to an identification number or to one or more factors specific to his physical, physiological, mental, economic, cultural or social identity. Supplier will: (a) treat Personal Data of all Honeywell personnel and prospective Honeywell personnel as Confidential Information; (b) take appropriate technical and organizational security measures as are required by Honeywell to protect Personal Data pursuant to Honeywell's instructions only for purposes directly related to the performance of obligations under this Purchase Order; (d) refrain from transferring Personal Data out of the European Union unless Honeywell has given its prior consent to the transfer and Supplier has satisfied any further requirements reasonably imposed by Honeywell; (e) indemnify Honeywell against all losses, costs, expenses, damages, liabilities, demands, claims, actions or proceedings which Honeywell may suffer or incur arising out of any breach of this clause 24.3; and (f) promptly notify Honeywell about: any legally binding request for disclosure of Personal Data by a law enforcement agency (unless otherwise prohibited); any accidental or unauthorized processing of Personal Data; and any requests received from undividuals to whom Personal Data relates, without responding to that request unless it has been otherwise authorized to do so by Honeywell. If Supplier will process Personal Data that Honeywell transfers from any of its affiliates in the European Union to any of its affiliates in the US pursuant to the U.S. - EU Safe Harbor Framework ("Safe Harbor Personal Data"), Supplier warrants that either (a) Supplier self-certifies to the U.S. - EU Safe Harbor Framework with respect to the processing of the Safe Harbor Personal Data and will notify Honeywell immediately if its self-certification terminates for any reason, or (b) Supplier must provide at least the same level of privacy protection as required by the U.S. - EU Safe harbor Framework.



25. Record Retention and Audit

25.1 Records: Supplier will maintain detailed records reflecting Supplier's

compliance with this Purchase Order a period of 10 years after the final delivery or termination of this Purchase Order or for the period prescribed by applicable law, whichever period is longer. Supplier will require each of its sub-tier suppliers to do likewise with respect to their records and materials.

25.2 Audit: For a period of 10 years from the date of last delivery or for the period by applicable law, whichever period is longer. Hopewell we

period prescribed by applicable law, whichever period is longer, Honeywell will have the right in connection with this Purchase Order to conduct an audit. Supplier will provide, and will cause each of its sub-tier suppliers to provide, access for Honeywell's auditors to Supplier's and Supplier's sub-tier supplier, books and other pertinent records and any other information as requested by Honeywell's auditors. During the audit if any invoice submitted by Supplier is found to be in error, an appropriate adjustment including the costs of the audit will be made to the invoice or the next succeeding invoice following the discovery of the error and resulting payment/credit will be issued promptly. Supplier will, and, if applicable, will cause its sub-tier suppliers to, promptly correct any deficiencies discovered as a result of the audit.

26. Assignment and Subcontracting

This Purchase Order will be binding on the Supplier and their respective permitted successors and assigns. Supplier will not assign this Purchase Order or any rights or obligations under this Purchase Order or subcontract all or any aspect of the work called for without the prior written approval of Honeywell. Any transfer of this Purchase Order by Supplier by merger, consolidation, dissolution, or any change in ownership or power to vote a controlling share of the voting stock in Supplier will constitute an assignment for the purposes of this Purchase Order. Any assignment or subcontracting without Honeywell's written approval will be voidable at the option of Honeywell. Honeywell may assign this Purchase Order or any of its rights or obligations under this Purchase Order to any of its subsidiaries or affiliates, or to any purchaser or successor to all or substantially all of the assets of Honeywell without Supplier's consent and upon written notice to Supplier. Supplier will be responsible for all its subcontractors and any act or omission of the subcontractor shall be deemed and action or omission from the Supplier for the purpose of this Agreement.

27. Relationship of Parties/Independent Contractor

Nothing in this Purchase Order will be construed to place Supplier and Honeywell in an agency, employment, franchise, joint venture, or partnership relationship. Neither party has the authority to obligate or bind the other in any manner. Nothing contained in this Purchase Order will give rise or is intended to give rise to rights of any kind to any third parties. Neither party will make any representation to the contrary. The parties agree that Supplier will perform its obligations under this Purchase Order as an independent contractor. Supplier will be solely responsible to exercise full control of, supervision over and responsibility for Supplier's personnel, its subcontractors or its agents, and any employee of any of the foregoing as well as compliance with workers' compensation, unemployment, disability insurance, social security, withholding and all other laws, rules, codes, regulations and ordinances governing such matters.

28. Compliance with Laws and Integrity

28.1 Supplier will comply with all laws, regulations and ordinances and Honeywell's Code of Business Conduct ("Code") in performing this Purchase Order. copy of the Code may be obtained Α http://www.honeywell.com/sites/honeywell/codeofconduct.htm. Supplier agrees to abide by and maintain an integrity and compliance program that encompasses at a minimum the standards of business conduct set forth in the Code and that effectively prevents and corrects ethical violations and maintains compliance with laws. Supplier will also comply with Honeywell's reasonable security requirements upon request by Honeywell.

28.2 Upon request, in form and substance satisfactory to enable Honeywell to meet its compliance obligations with regard to Regulation (EC) No 1907/2006 ("REACH"), Supplier will provide Honeywell with complete information regarding the chemical composition of any Goods supplied under this Purchase Order, including all safety information required under REACH and information regarding the registration or pre-registration status of any Goods pursuant to REACH promptly but no later than 30 days of receiving such request. Supplier agrees that it will include any Honeywell "Identified Use" in its REACH registrations or applications for Authorization, unless Supplier notifies Honeywell that it rejects the Identified Use in order to protect human health or the environment and specifies the reason for the rejection. In this case Honeywell will have the right to terminate this Purchase Order without incurring any damages.

28.3 Absent Honeywell's prior written consent, no Goods will contain any of the (i)substances identified in Article 4.1 of the European Parliament Directive 2002/95/EC (RoHS Directive) as that Directive is updated from time to time, (ii) substances of very high concern ("SVHC") defined in Article 57 of Regulation (EC) No 1907/2006 ("REACH") as updated form time to time, and/or (iii) substances listed in or similar applicable laws or regulations, restricting the use of hazardous materials in other jurisdictions as updated from time to time.

28.4 Goods will comply with the restrictions set forth in the Montreal Protocol on ozone-depleting substances.

28.5 Supplier will be responsible for all costs and liabilities for or relating to the recycling of Goods pursuant to the most current version of European Parliament Directive 2002/96/EC (WEEE Directive) as this Directive is implemented in each country.

29. <u>Supply Chain Security</u>

Supplier will implement the Business Partner Criteria of any Supply Chain Security Program that the country of import for the Goods may adopt such as the U.S. Customs-Trade Partnership Against Terrorism (C-TPAT) or the Canadian Partners in Protection (PIP) Program.

30. Conflict Minerals

In accordance with applicable "Conflict Minerals" laws, Honeywell must determine whether its products contain tin, tantalum, tungsten, or gold ("3TG") originating in the Democratic Republic of the Congo and adjoining countries ("Conflict Minerals"). To the extent Supplier supplies direct materials containing 3TG to Honeywell under this Purchase Order, Supplier commits to have a supply chain process to ensure and document a reasonable inquiry into the country of origin of the 3TG minerals incorporated into products it supplies to Honeywell. If requested, Supplier will promptly provide information or representations that Honeywell reasonably believes are required to meet its conflict minerals compliance obligations.

31. US Equal Employment Opportunity Regulations

To the extent employment activities of Supplier occur in the United States and if otherwise applicable this contractor and subcontractor shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

32. Applicable Law and Forum

32.1 United States: If Honeywell is a legal entity formed in the United States, then the construction, interpretation, performance, and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of the State of New York, U.S.A. without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto), and the federal or state courts in New York, New York will have exclusive jurisdiction of any dispute.

32.2 China: If both parties are legal entities formed in The People's Republic

of China, then the construction, interpretation, performance, and enforcement hereof all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of The People's Republic of China without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto). Any dispute not resolved by the parties through consultations will be subject to binding arbitration in accordance with the rules of the China International Economic Trade Arbitration Commission (CIETAC). In any arbitration there will be three arbitrators. Each Party will select and appoint one arbitrator within 30 days after the date of a request for arbitration. The third arbitrator will be jointly selected and appointed by the Parties. If the Parties fail to select and appoint the third arbitrator, the Chairman of CIETAC will select the third arbitrator. If a Party does not select and appoint an arbitrator, the relevant selection and appointment of the first arbitrator, the relevant selection and appointment will be made by the Chairman of CIETAC. The place of arbitration will be Shanghai.

If Honeywell is a legal entity formed in The People's Republic of China and the Supplier is not a legal entity formed in The People's Republic of China, then the construction, interpretation, performance, and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of England and Wales without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto). Any dispute not resolved by the parties will be subject to arbitration in accordance with the rules of the Singapore International Arbitration Centre.

32.3 Korea, Hong Kong, Malaysia, Taiwan, Singapore, Indonesia,

Vietnam, Australia, and New Zealand: If Honeywell is a legal entity formed in Korea, Hong Kong, Malaysia, Singapore, Indonesia, Vietnam, Australia, and New Zealand, then the construction, interpretation, performance and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of the country under which the Honeywell entity is formed, excluding the UN Convention on Contracts for the International Sale of Goods of 1980 (and any amendments or successors thereto), and any dispute arising out of or relating to this Purchase Order, including the breach, termination or validity thereof, will be finally resolved in accordance with the rules of arbitration as noted below. Judgment upon the award rendered by the arbitrators will be selected by Honeywell.

Singapore, Indonesia, Vietnam, Australia, New Zealand, - in accordance with the arbitration rules of the Singapore International Arbitration Center

 Korea - in accordance with the arbitration rules of the Korean Commercial Arbitration Board



 Hong Kong - in accordance with the arbitration rules of the Hong Kong International Arbitration Center

 Malaysia - in accordance with the arbitration rules of the Kuala Lumpur Regional Arbitration Centre

Taiwan - in accordance with the arbitration rules of the local Arbitration
Act

EMEA, India and countries not listed above: If Honeywell is a legal entity formed in a European, Middle Eastern and African country or formed in a country not identified above, then the construction, interpretation, performance, and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of England and Wales without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto). Any dispute arising out of or relating to this Purchase Order, including the breach, termination or validity thereof, will be finally resolved by a panel of three arbitrators in accordance with the Rules for Arbitration of the International Chamber of Commerce. Judgment upon the award rendered by the arbitrators may be entered by any court having jurisdiction thereof. The place of arbitration will be London, England. 32.5 Additional rules applicable to Arbitration: Any award will be payable

32.5 Additional rules applicable to Arbitration: Any award will be payable in the currency of this Purchase Order. Either party may apply to the arbitrators seeking injunctive relief until the arbitration award is rendered or the controversy is otherwise resolved. Either party also may, without waiving any remedy under this Purchase Order, seek from any court having jurisdiction any interim or provisional relief that is necessary to protect the rights or property of that party, pending the arbitrators' determination of the merits of the controversy. The language of the arbitration will be English.

33. <u>Remedies</u>

All Honeywell remedies set forth in this Purchase Order are in addition to, and will in no way limit, any other rights and remedies at law or in equity.

34. Notices

Notices relating to this Purchase Order must be in writing and may be delivered personally, by recognized overnight courier, or by certified first class mail, postage prepaid (each to the respective address appearing on the face of this Purchase Order). A Notice will be deemed given on the date delivered if delivered personally; 3 business days after being placed in the mail as specified above or in the custody of an overnight courier as specified above.

35. Publicity

Supplier will not use Honeywell's name or marks or refer to or identify Honeywell in any advertising or publicity releases or promotional or marketing materials without Honeywell's prior written approval. Furthermore, Supplier will not claim or suggest, implicitly or explicitly, that Honeywell's use of its Goods constitutes Honeywell's endorsement of its Goods.

36. Non-Exclusivity / No Commitment

Nothing in this Purchase Order will restrict Honeywell's right to contract with any third party to provide or perform, or to provide or perform on its own behalf, products or services similar or identical to the Goods provided by Supplier pursuant to this Purchase Order. Furthermore, there is no requirement that any minimum level of business or fees be provided to Supplier by Honeywell.

37. Headings and Captions

Headings and captions are for convenience of reference only and do not alter the meaning or interpretation of any provision of this Purchase Order.

38. <u>Waiver</u>

The failure or delay of either Party to enforce at any time any of the provisions of this Purchase Order will be construed to be a continuing waiver of those provisions, nor will any failure or delay prejudice the right of the Party to take any action or to exercise any right or remedy to enforce any provision.

39. <u>Severability</u>

If any provision of this Purchase Order (or portion thereof) is held to be illegal, invalid, or unenforceable by a court of competent jurisdiction, the parties agree that the court will construe the provision in a manner that renders the provision valid and enforceable to the fullest extent possible under the law of the applicable jurisdiction and that the remaining provisions will remain in full force and effect.

40. Survival

All provisions of this Purchase Order which by their nature should apply beyond its term will remain in force after any termination or expiration of this Purchase Order including, but not limited to, those addressing the following subjects: Import/Customs Compliance; Drawback; Offset; Honeywell-Supplied Materials, Tooling, Equipment and Technical Data; Price; Price: Most Favored Customer and Meet or Release; Invoicing and Payment; Set Off; Warranty; Cessation of Production; General Indemnification; Intellectual Property Indemnification; Insurance; Lien Waivers; Confidentiality/Data Privacy and Intellectual Property; Audit; Relationship Between the Parties/Independent Contractor; Applicable Law and Forum; Remedies; Publicity; Waiver; and Survival.

41. Translations

Translations in various languages of this General Terms and Conditions of Purchase may be available for reference. In case of inconsistencies between translations and the original English version, the English version shall prevail.



Sold / Bill To: Honeywell International Inc.			Change	to Purch	ase order
115 Tabor Road MORRIS PLAINS NJ 07950		Number		Version	Date
USA		450019	5490	2	18-MAY-2017
HFM :100101		shipping doo this order. Purchase Or	uments and not Unless prohibite der, all Payment	tices, bills of lading, ad by law or otherv t terms shall comme	item number must appear on all and all correspondence related to vise indicated on the face of this nee from the date upon which both
Vendor Address: AMEC E AND I INC 511 CONGRESS ST STE 200 MACTEC ENGINEERING AND CONSULTING CUMBERLAND PORTLAND 04101-3428	INC	accordance normally sch are received This Purcha	with the Net tern eduled twice me in conformance se Order is su f Purchase atta	ms of payment indic onthly payment runs with the Purchase C ibject to and gover	Credit to - mailing" address and in ated below subject to Honeywell's and (ii) all goods and/or services irder. ned by the General Terms and eby incorporated and form part of
ME US			iling address: r, Don#t send ir		
Your Vendor Number with us: 1006933					
Ship to:		Honeywell	Contact:		
1101 CoCOde Honeywell International Inc. CHUCK GEADELMANN QUARRY RD & M26 LAKE LINDEN MI 49945		Buyer: Requisitione	er: Mr CH	i Ghaisas .Ghaisas@Honeyw Merry Abbott UCK.GEADELMAN 3-455	vell.com IN@HONEYWELL.COM
USA		Accts Payable:	Tel: 480) 598 9071 .Corpsap@Honeyw	vell.com
Terms of payment : Currency : Incoterms : PO Number in reference contact number : *** Text changed ***	PAY NET IN 120 I USD FCA(Free Carrier)	-	RIER		
PO Header Text "The Scope and Performance of the work outlined in Environmental Services Agreement dated 6/1/2016."		nase Order sl	nall be performe	ed and governed by	/ the Master
Item Material/Description		Quantity	UoM	Unit Price	Net Amount TAX

)	R37156-05710 REMEDIATION	420,813.00	AU	1.00 / AU	420,813.00	
	Delivery schedule	Quantity	Unit	Date	Received Qty	
	0001	338,375.00	AU	10-NOV-2016	256,177.16	
	0002	82,438.00	AU	26-MAY-2017	0.00	
	RIMS ID# 145401					
	SITE: HELCA MINING (TORCH LAKE)					
	MUSEUM PROPERTY - ACM REMOVAL					
	RM: CHUCK GEADELMAN					
	*** PO quantity changed ***					
	*** Schedule lines changed ***					
	*** Item partially delivered ***					



Sold / Bill To: Honeywell International Inc.	Change to Purchase order				
115 Tabor Road	Number	Version	Date		
MORRIS PLAINS NJ 07950 USA	4500195490	2	18-M	AY-2017	
	Honeywell's Purchase Order r shipping documents and notice this order. Unless prohibited Purchase Order, all Payment te (i) a correct invoice is received accordance with the Net terms normally scheduled twice mont are received in conformance wit This Purchase Order is subje Conditions of Purchase attache this purchase order.	s, bills of lading by law or other rms shall comm at the specified of payment ind hly payment rur h the Purchase ect to and gove	i, and all co rwise indica ence from th "Credit to - icated below is and (ii) a Order. erned by th	rrespondence related to tited on the face of this he date upon which both mailing" address and in w subject to Honeywell's Il goods and/or services he General Terms and	
	Total net value excl. tax		USD	420,813.00	



GENERAL TERMS AND CONDITIONS OF PURCHASE (Rev. 2014-03-14)

-Corporate-

Acceptance - Order of Precedence - Modification 1.

This purchase order ("Purchase Order") is for the purchase of goods, services, or both as described on the face of this Purchase Order (collectively, "Goods") and is issued by the member of the Honeywell International Inc. group of companies identified on the face of this Purchase Order ("Honeywell") This Purchase Order is deemed accepted when the supplier to which this Purchase Order is issued ("Supplier") returns the acknowledgment copy of this Purchase Order or begins performing, whichever is earlier. Honeywell rejects any additional or inconsistent terms and conditions offered by Supplier at any time. Any reference to Supplier's quotation, bid, or proposal does not imply acceptance of any term, condition, or instruction contained in that document.

These terms and conditions together with the specifications, drawings, or other documents referred to on the face of the Purchase Order, or attached, or any documents incorporated by reference, supersede any prior or contemporaneous communications, representations, promises, or negotiations, whether oral or written, respecting the subject matter of this Purchase Order. All contract documents related to this Purchase Order are interpreted together as one agreement. But if there is an irreconcilable conflict among the provisions of those contract documents, the following order of precedence applies: a) contract documents signed by both parties; b) the face of the Purchase Order and any supplemental terms included or incorporated by reference; then c) these general Purchase Order provisions. No modification of this Purchase Order will be binding on either Party unless set forth in a writing signed by an authorized representative of both Parties specifically stating it is amending this Purchase Order. No course of dealing, prior dealings, usage of trade or course of performance will be used to modify, supplement or explain any terms used in this Purchase Order

Delivery, Shipment and Packaging 2.

2.1 Supplier will deliver Goods in the quantities and on the date(s) specified on the Purchase Order or Purchase Order schedule releases. If delivery dates are not stated, Supplier will offer its best delivery date(s), which will be subject to acceptance by Honeywell. Unless otherwise directed, all Goods shipped in one day from and to a single location must be consolidated on one bill of lading or air waybill, as appropriate.

If the delivery schedule is endangered for any reason other than 2.2

Honeywell's fault, then Supplier will, at its expense, deliver Goods by the most expeditious shipping method. Honeywell reserves the right to reject, at no expense to Honeywell, all or any part of any delivery that varies from the quantity authorized by Honeywell for shipment. Supplier will not make any substitutions without Honeywell's prior written approval. All items will be packaged according to Honeywell's instructions or, if none, according to good commercial practice in a manner sufficient to ensure receipt in an undamaged condition. Honeywell will not be liable for any discharge, spill or other environmental incident (including clean-up costs) involving any Goods shipped under the Purchase Order unless caused by Honeywell and in no event until delivered to the destination designated by Honeywell. All containers will be properly marked for identification as instructed on Honeywell's Purchase Order and contain a packing slip that details, at a minimum, the Honeywell Purchase Order number(s), product part number, detailed product description, total number of boxes in shipment, quantity of product shipped, and final delivery address. Items shipped in advance of Honeywell's delivery schedule may be returned at Supplier's expense. For domestic shipments, if requested by Honeywell, and for all international shipments, Supplier will give notice of shipment to Honeywell when the Goods are delivered to a carrier for transportation. The Purchase Order number(s) must appear on all correspondence, shipping labels, and shipping documents, including all packing sheets, bills of lading and air waybills.

23 All Goods, unless specifically exempted by the destination country's

governing authorities, must be marked with the country of origin (manufacture) of the Goods in a conspicuous place as legibly, indelibly, and permanently as the nature of the article or container permits. 2.4 Supplier will provide Honeywell with (a) the Harmonized Tariff Schedule

number, country of origin information or certificates, manufacturer's affidavits, applicable free trade agreement ("FTA") certificates, and any other documents or information Honeywell may require to comply with international trade regulations or to lawfully minimize duties, taxes, and fees, and (b) FTA certificates for all Goods that qualify under one or more FTAs. Supplier will provide Honeywell all documents, records, and other supporting information necessary to substantiate the Goods' qualification under an FTA. Supplier will exert reasonable efforts to qualify the Goods under FTAs.

Within one business day after Supplier delivers the Goods to the carrier, Supplier will send Honeywell a complete set of shipping documents including the commercial invoice, packing list, and air waybill, or three original parts of the combined through-bill of lading, clean without notation, necessary to release the Goods to Honeywell's custody.

Notice of Delay 3.

Supplier must immediately notify Honeywell in writing with all information relating to any delay or threatened delay of the timely performance of this Purchase Order

Excusable Delay (Force Maieure)

Neither party will be in default for any delay or failure to perform due to causes beyond its control and without its fault or negligence("Force Majeure Event"), but any delay or failure to perform caused by the default of a sub tier supplier of Supplier will be excused only if (a) it is beyond the control of both Supplier and its sub-tier supplier(s) and without the fault or negligence of any of them, and (b) the Goods to be furnished cannot be obtained from other sources in sufficient time to permit Supplier to meet the delivery schedule. Supplier's ability to sell Goods at a more advantageous price or Supplier's economic hardship in buying materials or processing necessary for manufacture of the Goods, or labor disputes will not constitute an excusable delay event. The party affected by a Force Majeure Event will promptly provide written notice to the other, explaining in detail the full particulars and expected duration of the Force Majeure Event, and will use its best efforts to remedy the delay if it can be remedied. If Supplier's delivery is delayed, Honeywell may, at Honeywell's sole option, cancel deliveries scheduled during the Force Majeure Event or elect to extend the period of performance to cover the period of delay caused by the Force Majeure Event. If a Force Majeure Event occurs that affects delivery of Goods to Honeywell, Supplier will allocate its available supply of Goods in a manner that assures Honeywell of at least the same proportion of Supplier's total output of Goods as was allocated to Honeywell before the Force Majeure Event. If delivery of any Goods is delayed for more than 30 days, Honeywell may, without liability, cancel all or any part of this Purchase Order.

Performance Assurance Plan

If Honeywell, in its sole discretion, determines there is a significant risk that Supplier will fail to meet its performance or delivery requirements under this Purchase Order, Honeywell may require Supplier to perform under a Honeywell Performance Assurance Plan. The Performance Assurance Plan may include specific reporting and performance requirements reasonably tailored to ensure Supplier's adequate performance under identified provisions of this Purchase Order. Any failure by Supplier to satisfy the terms of the Performance Assurance Plan is a material breach of this Purchase Order.

Shipping Terms, Title and Risk of Loss 6.

61 If the Goods will be transported from Supplier's location in the U.S. to Honeywell's location in the U.S., unless otherwise specified on the face of the Purchase Order or in a separate agreement, the F.O.B. point is Honeywell's location. When the F.O.B. point is Supplier's location, Supplier bears all risk of loss or damage to the Goods and title passes to Honeywell upon delivery of the Goods to the carrier designated or approved by Honeywell. When the F.O.B. point is Honeywell's location. Supplier bears all risk of loss or damage to the Goods and title passes to Honeywell upon delivery of the Goods at Honeywell's location.

6.2 In all other cases, unless otherwise specified on the face of the Purchase Order or in a separate agreement, Supplier will deliver the Goods DAP (Incoterms 2010) at Honeywell's location.

6.3 The foregoing does not relieve Supplier of any responsibility for hidden damages discovered after acceptance of the Goods. Notwithstanding the foregoing, title and risk of loss to Goods subject to a consignment stock agreement pass upon release of the Goods from the consignment stock. Honeywell may direct Supplier to ship the Goods to Honeywell or to any third

party designated by Honeywell. **7.** <u>Import/Customs Compliance</u>

Supplier assumes all responsibility and liability for any shipments covered by this Purchase Order requiring any government import clearance. If government authorities declare or otherwise impose countervailing duties, antidumping duties, or retaliatory duties on the Goods imported under this Purchase Order, Honeywell reserves the right to terminate this Purchase Order in accordance with the Termination provisions of this Purchase Order. Supplier will be debited for any duties, fees, or freight incurred by Honeywell due to Supplier's failure to comply with the terms and conditions of this Purchase Order. This clause survives the termination or cancellation of this Purchase Order. 8.

Drawback

All drawback of duties, and rights thereto, related to duties paid by Supplier or Honeywell when the Goods are imported or any materials or components used in manufacturing of the Goods will accrue to the exclusive benefit of Honeywell. Duty drawback rights include rights developed by substitution and duty drawback rights obtained from sub tier suppliers related to the Goods. Supplier will provide Honeywell with all documents, records, and other supporting information necessary to obtain any duty drawback, and will reasonably cooperate with Honeywell to obtain payment.

Offset

Supplier will assist Honeywell in obtaining credit from Supplier's government for the value of relevant Goods purchased to meet any present or future contractual offer or industrial benefit requirements imposed upon Honeywell or its subsidiaries or affiliates, if any. Assistance includes, but is not limited to, providing upon Honeywell's request evidence of the existence, value, content, and other pertinent information relating to the purchases. Honeywell reserves the right to claim these credits for itself or third parties. If Supplier awards any portion of the work in this Purchase Order to any lower tier supplier, Supplier will assign



to Honeywell any credits obtained from the sub-tier supplier's government relating to this transaction, if any, and assist Honeywell in obtaining such credits Honeywell-Supplied Materials, Tooling, Equipment and Technical

Data

10.1 Title to any material, tooling, equipment, or technical data that Honeywell pays for or provides to Supplier or is responsible for providing to Supplier, including replacements ("Honeywell Property") will remain or vest with Honeywell. Supplier will conspicuously label Honeywell Property as such, maintain it in good condition, keep written records of the Honeywell Property in its possession and the location of the property, not allow any liens to be placed upon it, and not change its location without prior written approval from Honeywell. Supplier is responsible for inspecting and determining that the Honeywell Property is in useable and acceptable condition.

Supplier will use Honeywell Property exclusively to fulfill Honeywell 10.2

Purchase Orders unless otherwise authorized in writing by Honeywell's procurement representative. Honeywell Property is intended for use at the Supplier's site only or as otherwise authorized in writing by Honeywell's procurement representative and, to the extent applicable, is subject to U.S. and other government export or re-export requirements. Supplier is responsible for any loss, damage, or destruction of Honeywell Property and any loss, damage or destruction of any third-party property resulting from Supplier's negligent use of Honeywell Property. Supplier will not include the cost of any insurance for Honeywell Property in the prices charged under this Purchase Order. Supplier will return Honeywell Property or dispose of it at Honeywell's sole option as it directs in writing. Honeywell makes no representations and disclaims all warranties (express or implied) with respect to Honeywell Property.

11. Price

Supplier will furnish the Goods at the prices stated on the face of the Purchase Order. If prices are not stated on the face of the Purchase Order, Supplier will offer its lowest prices subject to written acceptance by Honeywell. Unless otherwise provided on the face of the Purchase Order, the prices include all packaging and freight to the specified delivery point; applicable taxes and other government charges including, but not limited to, all sales, use, or excise taxes; and all customs duties, fees, or charges that must be separately itemized on all Supplier invoices. To the extent that value added tax (or any equivalent tax) is properly chargeable on the supply to Honeywell of any Goods, Honeywell will pay the tax as an addition to payments otherwise due Supplier under this Purchase Order, if Supplier provides to Honeywell a value-added tax (or equivalent tax) invoice. To the extent Honeywell has not received from Supplier all applicable forms regarding compliance with applicable tax law, Honeywell reserves the right to deduct from any payment to Supplier pursuant to this Purchase Order those amounts that Honeywell, in its sole discretion, deems to be required to be withheld in order to comply with the tax laws of any applicable jurisdiction.

Price: Most Favored Customer and Meet or Release 12.

Supplier warrants that the prices charged for the Goods delivered under this Purchase Order are the lowest prices charged by Supplier for similar goods. If Supplier charges a lower price for similar goods, Supplier must notify Honeywell and apply that price to all Goods ordered under this Purchase Order by immediately paying Honeywell the price difference and applying the lower price to all Purchase Orders. If at any time before full performance of this Purchase Order Honeywell notifies Supplier in writing that Honeywell has received a written offer from another supplier for similar goods at a price lower than the price set forth in this Purchase Order, Supplier must immediately meet the lower price for any undelivered Goods. If Supplier fails to meet the lower price Honeywell, at its option and in addition to other rights or remedies, may immediately terminate the balance of the Purchase Order without liability.

13. Invoicing and Payment

After each shipment made or service provided, Supplier will submit an invoice listing a description of the Goods provided and, as applicable, part numbers, quantity, unit of measure, hours, and the unit and total prices. All applicable taxes and other government charges including, but no limited to, sales, use, or excise taxes; value added tax, customs duties, fees, and all incidental charges including but not limited to royalties, selling commissions, nonrecurring engineering, or other incidental charges must be separately itemized and identified on the invoice. The invoice must also include the following information in English, or in the destination country's official language if required: (a) name and address of Supplier and the Honeywell entity purchasing the Goods; (b) name of shipper (if different from Supplier); (c) Honeywell's Purchase Order number(s); (d) country of export; (e) detailed description of the Goods; (f) Harmonized Tariff Schedule number; (g) country of origin (manufacture) of the Goods, or if multiple countries of origin, the country of origin of each part shipped; (h) weights of the Goods shipped; (i) currency in which the sale was made; (j) payment terms; (k) shipment terms used; and (l) all rebates or discounts. The invoice will be accompanied (if applicable) by a signed bill of lading or express receipt evidencing shipment. Payment of an invoice does not constitute acceptance of the Goods and is subject to appropriate adjustment should Supplier fail to meet the requirements of the Purchase Order. Payment terms are net 120 days from receipt of invoice and conforming Goods unless otherwise stated on the face of the Purchase Order or other written agreement executed by both parties or as otherwise required by law (in the latter case the payment terms shall be the maximum permitted by law). Payment will be scheduled for the first payment cycle following the net terms for the Purchase Order.

14. Setoff

Honeywell may deduct any amount owing from Supplier to Honeywell as a set off against any amount owing to Supplier under this Purchase Order. 15.

Inspection

15 1 All Goods may be inspected and tested by Honeywell, its customers, higher-tier contractors, and end users at all reasonable times and places. If inspection or testing is made on Supplier's premises, Supplier will provide, without charge, all reasonable facilities and assistance required for the inspection and tests. Supplier's standard inspection and testing system must be approved by Honeywell in writing. All inspection and testing records, including sub-tier supplier records relating to the Goods, will be maintained by Supplier and made available to Honeywell during the performance of this Purchase Order, and for such longer periods if specified by Honeywell.

15.2 Final inspection and acceptance by Honeywell will be at destination unless otherwise specified in this Purchase Order. Honeywell may inspect all or a sample of Goods, at its option, and may reject all or any portion of the Goods if Honeywell determines them to be defective or nonconforming within 90 days of delivery. If Honeywell performs any inspection (other than the standard inspection) after discovering defective or nonconforming Goods, any additional inspection costs will be paid by Supplier. No inspection, tests, approval, design approval, or acceptance of the Goods relieves Supplier from responsibility for warranty or any latent or patent defects, fraud, or negligence. If Goods are defective or nonconforming, Honeywell may, by written notice to Supplier rescind this Purchase Order as to the Goods; accept the Goods at an equitable reduction in price; or reject the Goods and require the delivery of replacements. Delivery of replacements will be accompanied by a written notice specifying that the Goods are replacements. If Supplier fails to deliver replacements promptly, Honeywell may correct any retained defective or nonconforming Goods at Supplier's expense; replace them with Goods from another supplier and charge the Supplier the cost thereof, including cover, and any incidental costs; or terminate this Purchase Order for cause.

Warranty 16.

16.1 Supplier warrants to Honeywell, its successors, assigns, customers, and end users that, during the entire Warranty Period specified below, all Goods furnished (including all replacement or corrected Goods or components): will be free from defects in material, workmanship, and design, even if the design has been approved by Honeywell; will conform to applicable drawings, designs, quality control plans, specifications and samples and other descriptions furnished or specified by Honeywell; will be merchantable; be fit for the intended purposes and operate as intended; will comply with all laws; will be free and clear of any and all liens or other encumbrances; will not infringe any patent, published patent application, or other intellectual property rights of any third party; and will not utilize misappropriated third party trade secret information. Goods that do not meet the preceding standards are collectively called "nonconforming Goods." Services will be performed in accordance with the highest standards in the

industry. <u>16.2</u> The Warranty Period is 24 months from the date of delivery to the end user or such longer period of time as may have been accepted by Honeywell from Honeywell's customer or on which any longer government requirement covering the Goods ends. These warranties survive delivery, inspection, acceptance, and payment by Honeywell. Claims for breach of warranty do not accrue until discovery of nonconformingGoods, even if the Goods were previously inspected. Any applicable statute of limitations runs from the date of discovery. Honeywell may, at its election, have the nonconforming Goods repaired, replaced, or corrected at Supplier's expense. Supplier is responsible for the costs of repairing, replacing or correcting nonconforming Goods, and for all related costs, expenses and damages including, without limitation, the costs of removal, disassembly, failure analysis, fault isolation, reinstallation, re-inspection, and retrofit of the nonconforming Goods or of Honeywell's affected end-product; all freight charges; all customer charges; and all corrective action costs. Unless set off by Honeywell, Supplier will reimburse Honeywell for all these costs upon receipt of Honeywell's invoice. The warranties and rights provided are cumulative and in addition to any warranty provided by law or equity.

Supplier represents and warrants that there is nothing that will directly 16.3 indirectly, actually or potentially restrict or prevent Supplier in any way from fulfilling all its obligations, duties, and services under this Purchase Order, including without limitation any exclusivity or non-compete arrangement. **17. Changes**

Honeywell may, by written or electronic notification, direct changes in the drawings, designs, specifications, method of shipment or packing, quantity, or time or place of delivery of the Goods; reschedule the services; or require additional or diminished services. Only authorized Honeywell procurement representatives may issue changes to the Purchase Order. If any change causes an increase or decrease in the cost of, or the time required for, performing this Purchase Order, an equitable adjustment will be made in the Purchase Order price, delivery dates or both, and this Purchase Order will be modified in writing or electronically accordingly. Any claim for adjustment under this provision may, at Honeywell's option, be deemed to be waived unless asserted in writing (including the amount of the claim) and delivered to Honeywell within 30 days from the date of the receipt by Supplier of the Honeywell-directed change to the Purchase Order. If the cost of property made obsolete or excess as a result of a change is paid by Honeywell, Honeywell may prescribe the manner of disposition of the property. Notwithstanding any disagreement between the parties regarding



the impact of a change, Supplier will proceed diligently with its performance under this Purchase Order pending resolution of the disagreement.

Design and Process Changes

Supplier will make no changes in the design, materials, manufacturing location, manufacturing equipment, production process, changes between a manual and automated process, or any other processes related to the Goods specified in the Purchase Order or documents referenced in it, or if none, those in place when the Purchase Order is issued, without the advance written approval of Honeywell's procurement representative.. This requirement applies whether or not the change and regardless of the type of change, including product affects costs improvements.

19 Stop Work

At any time by written notice and at no cost, Honeywell may require Supplier to stop all or any part of the work under this Purchase Order for up to 120 days (Stop Work Order), and for any further period as mutually agreed. Immediately upon receipt of a Stop-Work Order, Supplier will comply with its terms. At any time Honeywell may, in whole or in part, either cancel the Stop Work Order or terminate the work under the Termination section of this Purchase Order. To the extent the Stop Work Order is canceled or expires, Supplier must immediately resume work.

20 Termination

The nonbreaching party may terminate this Purchase Order if the other commits a material breach and fails to remedy the breach within 30 20.1 partv calendar days following receipt of written notice specifying the grounds for the breach, except in the case of breach related to safety, health, or security, in which case Honeywell will have the right to immediately terminate the Order. A material breach includes, but is not limited to, late delivery or delivery of nonconforming Goods. The solvent party may terminate this Purchase Order upon written notice if the other party becomes insolvent or if any petition is filed or proceedings commenced by or against that party relating to bankruptcy, receivership, reorganization, or assignment for the benefit of creditors.

Notwithstanding any firm time period or quantity on the face of the

Purchase Order, Honeywell may terminate this Purchase Order in whole or in part at any time with or without cause for undelivered Goods or unperformed services upon 10 days' prior written notice.

If Honeywell terminates this Purchase Order under either 20.1 or 20.2, 20.3

Honeywell's sole liability to Supplier, and Supplier's sole and exclusive remedy, is payment for Goods received and accepted by Honeywell before the date of termination. The payment can be set off against any damages to Honeywell. Upon termination, Honeywell may require Supplier to transfer title and deliver to Honeywell any completed Goods and Honeywell will pay the Purchase Order price for those Goods subject to set off against any damages to Honeywell. Honeywell may also require Supplier to transfer title and deliver to Honeywell any or all property produced or procured by Supplier to perform this Purchase Order Honeywell will credit Supplier with the reasonable value of the property, but not more than Supplier's actual cost or the Purchase Order value, whichever is less. To the extent that any portion of this Purchase Order is not terminated 20.4 under 20.1 or 20.2 above, Supplier will continue performing that portion.

Cessation of Production 21.

If production of any Good is to be discontinued or suspended within 1 year after final delivery under this Purchase Order, Supplier must give Honeywell as much prior written notice as commercially reasonable of the discontinuance or suspension. For at least 180 days from the discontinuance or suspension, Supplier must accept orders from Honeywell for the Good at the price and on the terms of this Purchase Order.

Indemnifications

General Indemnification

Supplier will, at its expense, defend and indemnify Honeywell and its subsidiaries, affiliates, and agents, and their respective officers, directors, shareholders, employees, and customers (collectively "Indemnitees") from and against any and all loss, cost, damage, claim, or liability, including reasonable attorney and professional fees and costs, and the cost of settlement, compromise, judgment, or verdict incurred by or demanded of an Indemnitee arising out of, resulting from or occurring in connection with Supplier's negligence, willful misconduct, or breach of the terms of this Purchase Order. Indemnitee may participate in the defense or negotiations to protect its interests. Supplier will not enter into any settlement or compromise without Honeywell's prior written consent, which will not be unreasonably withheld.

Intellectual Property Indemnification

For Goods provided under this Purchase Order, Supplier will, at its expense, defend and indemnify Honeywell and its customers (Indemnitee) from and against any and all loss, cost, damage, claim, or liability, including reasonable attorney and professional fees and costs, and the cost of settlement, compromise, judgment, or verdict incurred by or demanded from Indemnitee arising out of, or relating to any alleged or actual: (a) patent, copyright, or trademark infringement; (b) unlawful disclosure, use, or misappropriation of a trade secret; or (c) violation of any other third-party intellectual property right, and from expenses incurred by Indemnitee in defense of such suit, claim, or proceeding if Supplier does not undertake the defense thereof.

22.3 Right to Defend

Supplier will have the right to conduct the defense and settlement of any claim or action described in this Indemnification and Remedies Section if it acknowledges in writing its responsibility for such claim. In no event will Supplier enter into any

settlement without Honeywell's prior written consent, which will not be unreasonably withheld. Indemnitee may participate in a defense or negotiations to protect its interests. If any injunction or restraining order is issued, Supplier will, at its expense, obtain for Indemnitee either the right to continue using and selling the Goods or replace or modify the Goods to make them noninfringing; without any loss of functionality.

23. Insurance

Supplier will maintain and carry liability insurance which includes, but is not limited to, commercial general liability (including product liability and for services to be performed, completed operations liability) in a sum no less than \$5 million, automobile liability in a sum no less than \$5 million, worker's compensation in an amount no less than the applicable statutory minimum requirement, and employer's liability in an amount of no less than \$1 million, with insurance carriers with an AM Bests rating of no less than A- or equivalent. Before delivery of any Goods or commencement of any services under the Purchase Order, Supplier will provide to Honeywell evidence that Supplier maintains the described insurance, and that the coverage will not be changed without 30 days advance written notification to Honeywell from the carrier(s). Except where prohibited by law, Supplier will require its insurers to waive all rights of recovery or subrogation against Honeywell, its subsidiaries and affiliated companies, and its and their respective officers, directors, shareholders, employees, and agents. The amount of insurance carried in compliance with the above requirements is not to be construed as either a limitation on or satisfaction of the indemnification obligation in this Purchase Order.

Confidentiality and Intellectual Property 24.

All information, including without limitation specifications, samples, 24.1 drawings, materials, know-how, designs, processes, and other technical, business, or financial information, that: (a) has been or will be supplied to Supplier by or on behalf of Honeywell; or (b) Supplier will design, develop, or create in connection with this Purchase Order; as to individual items or a combination of components or both, and whether or not completed, and all derivatives of (a) and (b) that Supplier has or will design, develop or create are deemed to be "Confidential Information" of Honeywell. All Confidential Information is work made for hire and made in the course of services rendered. All rights to it belong exclusively to Honeywell, with Honeywell having the sole right to obtain, hold, and renew, in its own name or for its own benefit, patents, copyrights, registrations, or other appropriate protection. To the extent that exclusive title or ownership rights in Confidential Information may not originally vest in Honeywell, Supplier irrevocably assigns transfers and conveys to Honeywell all right, title, and interest therein.

Honeywell's Confidential Information will remain the property of 24.2

Honeywell. It may not be used by Supplier for any purpose other than for performing this Purchase Order, may not be disclosed to any third party, and will be returned to Honeywell upon the earlier of Honeywell's written request or completion of the Purchase Order. If, with Honeywell's prior written approval, Supplier furnishes Confidential Information to a sub-tier supplier, Supplier will bind the sub-tier supplier to confidentiality requirements substantially identical to this provision and Supplier will remain responsible to Honeywell for any breach of this provision by its sub-tier suppliers. No disclosure, description or other communication of any sort will be made by Supplier to any third person of the fact of Honeywell's purchase of Goods under this Purchase Order, the terms of this Purchase Order, the substance of any discussions or negotiations concerning this Purchase Order, or either party's performance under this Purchase Order. 24.3 "Personal Data" means any information relating to an identified or

identifiable natural person; an identifiable person is one who can be identified, directly or indirectly, in particular by reference to an identification number or to one or more factors specific to his physical, physiological, mental, economic, cultural or social identity. Supplier will: (a) treat Personal Data of all Honeywell personnel and prospective Honeywell personnel as Confidential Information; (b) take appropriate technical and organizational security measures as are required by Honeywell to protect Personal Data pursuant to Honeywell's instructions only for purposes directly related to the performance of obligations under this Purchase Order; (d) refrain from transferring Personal Data out of the European Union unless Honeywell has given its prior consent to the transfer and Supplier has satisfied any further requirements reasonably imposed by Honeywell; (e) indemnify Honeywell against all losses, costs, expenses, damages, liabilities, demands, claims, actions or proceedings which Honeywell may suffer or incur arising out of any breach of this clause 24.3; and (f) promptly notify Honeywell about: any legally binding request for disclosure of Personal Data by a law enforcement agency (unless otherwise prohibited); any accidental or unauthorized processing of Personal Data; and any requests received from undividuals to whom Personal Data relates, without responding to that request unless it has been otherwise authorized to do so by Honeywell. If Supplier will process Personal Data that Honeywell transfers from any of its affiliates in the European Union to any of its affiliates in the US pursuant to the U.S. - EU Safe Harbor Framework ("Safe Harbor Personal Data"), Supplier warrants that either (a) Supplier self-certifies to the U.S. - EU Safe Harbor Framework with respect to the processing of the Safe Harbor Personal Data and will notify Honeywell immediately if its self-certification terminates for any reason, or (b) Supplier must provide at least the same level of privacy protection as required by the U.S. - EU Safe harbor Framework.



25. Record Retention and Audit

25.1 Records: Supplier will maintain detailed records reflecting Supplier's

compliance with this Purchase Order a period of 10 years after the final delivery or termination of this Purchase Order or for the period prescribed by applicable law, whichever period is longer. Supplier will require each of its sub-tier suppliers to do likewise with respect to their records and materials.

25.2 Audit: For a period of 10 years from the date of last delivery or for the period by applicable law, whichever period is longer. Hopewell we

period prescribed by applicable law, whichever period is longer, Honeywell will have the right in connection with this Purchase Order to conduct an audit. Supplier will provide, and will cause each of its sub-tier suppliers to provide, access for Honeywell's auditors to Supplier's and Supplier's sub-tier supplier, books and other pertinent records and any other information as requested by Honeywell's auditors. During the audit if any invoice submitted by Supplier is found to be in error, an appropriate adjustment including the costs of the audit will be made to the invoice or the next succeeding invoice following the discovery of the error and resulting payment/credit will be issued promptly. Supplier will, and, if applicable, will cause its sub-tier suppliers to, promptly correct any deficiencies discovered as a result of the audit.

26. Assignment and Subcontracting

This Purchase Order will be binding on the Supplier and their respective permitted successors and assigns. Supplier will not assign this Purchase Order or any rights or obligations under this Purchase Order or subcontract all or any aspect of the work called for without the prior written approval of Honeywell. Any transfer of this Purchase Order by Supplier by merger, consolidation, dissolution, or any change in ownership or power to vote a controlling share of the voting stock in Supplier will constitute an assignment for the purposes of this Purchase Order. Any assignment or subcontracting without Honeywell's written approval will be voidable at the option of Honeywell. Honeywell may assign this Purchase Order or any of its rights or obligations under this Purchase Order to any of its subsidiaries or affiliates, or to any purchaser or successor to all or substantially all of the assets of Honeywell without Supplier's consent and upon written notice to Supplier. Supplier will be responsible for all its subcontractors and any act or omission of the subcontractor shall be deemed and action or omission from the Supplier for the purpose of this Agreement.

27. Relationship of Parties/Independent Contractor

Nothing in this Purchase Order will be construed to place Supplier and Honeywell in an agency, employment, franchise, joint venture, or partnership relationship. Neither party has the authority to obligate or bind the other in any manner. Nothing contained in this Purchase Order will give rise or is intended to give rise to rights of any kind to any third parties. Neither party will make any representation to the contrary. The parties agree that Supplier will perform its obligations under this Purchase Order as an independent contractor. Supplier will be solely responsible to exercise full control of, supervision over and responsibility for Supplier's personnel, its subcontractors or its agents, and any employee of any of the foregoing as well as compliance with workers' compensation, unemployment, disability insurance, social security, withholding and all other laws, rules, codes, regulations and ordinances governing such matters.

28. Compliance with Laws and Integrity

28.1 Supplier will comply with all laws, regulations and ordinances and Honeywell's Code of Business Conduct ("Code") in performing this Purchase Order. copy of the Code may be obtained Α http://www.honeywell.com/sites/honeywell/codeofconduct.htm. Supplier agrees to abide by and maintain an integrity and compliance program that encompasses at a minimum the standards of business conduct set forth in the Code and that effectively prevents and corrects ethical violations and maintains compliance with laws. Supplier will also comply with Honeywell's reasonable security requirements upon request by Honeywell.

28.2 Upon request, in form and substance satisfactory to enable Honeywell to meet its compliance obligations with regard to Regulation (EC) No 1907/2006 ("REACH"), Supplier will provide Honeywell with complete information regarding the chemical composition of any Goods supplied under this Purchase Order, including all safety information required under REACH and information regarding the registration or pre-registration status of any Goods pursuant to REACH promptly but no later than 30 days of receiving such request. Supplier agrees that it will include any Honeywell "Identified Use" in its REACH registrations or applications for Authorization, unless Supplier notifies Honeywell that it rejects the Identified Use in order to protect human health or the environment and specifies the reason for the rejection. In this case Honeywell will have the right to terminate this Purchase Order without incurring any damages.

28.3 Absent Honeywell's prior written consent, no Goods will contain any of the (i)substances identified in Article 4.1 of the European Parliament Directive 2002/95/EC (RoHS Directive) as that Directive is updated from time to time, (ii) substances of very high concern ("SVHC") defined in Article 57 of Regulation (EC) No 1907/2006 ("REACH") as updated form time to time, and/or (iii) substances listed in or similar applicable laws or regulations, restricting the use of hazardous materials in other jurisdictions as updated from time to time.

28.4 Goods will comply with the restrictions set forth in the Montreal Protocol on ozone-depleting substances.

28.5 Supplier will be responsible for all costs and liabilities for or relating to the recycling of Goods pursuant to the most current version of European Parliament Directive 2002/96/EC (WEEE Directive) as this Directive is implemented in each country.

29. <u>Supply Chain Security</u>

Supplier will implement the Business Partner Criteria of any Supply Chain Security Program that the country of import for the Goods may adopt such as the U.S. Customs-Trade Partnership Against Terrorism (C-TPAT) or the Canadian Partners in Protection (PIP) Program.

30. Conflict Minerals

In accordance with applicable "Conflict Minerals" laws, Honeywell must determine whether its products contain tin, tantalum, tungsten, or gold ("3TG") originating in the Democratic Republic of the Congo and adjoining countries ("Conflict Minerals"). To the extent Supplier supplies direct materials containing 3TG to Honeywell under this Purchase Order, Supplier commits to have a supply chain process to ensure and document a reasonable inquiry into the country of origin of the 3TG minerals incorporated into products it supplies to Honeywell. If requested, Supplier will promptly provide information or representations that Honeywell reasonably believes are required to meet its conflict minerals compliance obligations.

31. US Equal Employment Opportunity Regulations

To the extent employment activities of Supplier occur in the United States and if otherwise applicable this contractor and subcontractor shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

32. Applicable Law and Forum

32.1 United States: If Honeywell is a legal entity formed in the United States, then the construction, interpretation, performance, and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of the State of New York, U.S.A. without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto), and the federal or state courts in New York, New York will have exclusive jurisdiction of any dispute.

32.2 China: If both parties are legal entities formed in The People's Republic

of China, then the construction, interpretation, performance, and enforcement hereof all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of The People's Republic of China without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto). Any dispute not resolved by the parties through consultations will be subject to binding arbitration in accordance with the rules of the China International Economic Trade Arbitration Commission (CIETAC). In any arbitration there will be three arbitrators. Each Party will select and appoint one arbitrator within 30 days after the date of a request for arbitration. The third arbitrator will be jointly selected and appointed by the Parties. If the Parties fail to select and appoint the third arbitrator, the Chairman of CIETAC will select the third arbitrator. If a Party does not select and appoint an arbitrator, the relevant selection and appointment of the first arbitrator, the relevant selection and appointment will be made by the Chairman of CIETAC. The place of arbitration will be Shanghai.

If Honeywell is a legal entity formed in The People's Republic of China and the Supplier is not a legal entity formed in The People's Republic of China, then the construction, interpretation, performance, and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of England and Wales without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto). Any dispute not resolved by the parties will be subject to arbitration in accordance with the rules of the Singapore International Arbitration Centre.

32.3 Korea, Hong Kong, Malaysia, Taiwan, Singapore, Indonesia,

Vietnam, Australia, and New Zealand: If Honeywell is a legal entity formed in Korea, Hong Kong, Malaysia, Singapore, Indonesia, Vietnam, Australia, and New Zealand, then the construction, interpretation, performance and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of the country under which the Honeywell entity is formed, excluding the UN Convention on Contracts for the International Sale of Goods of 1980 (and any amendments or successors thereto), and any dispute arising out of or relating to this Purchase Order, including the breach, termination or validity thereof, will be finally resolved in accordance with the rules of arbitration as noted below. Judgment upon the award rendered by the arbitrators will be selected by Honeywell.

Singapore, Indonesia, Vietnam, Australia, New Zealand, - in accordance with the arbitration rules of the Singapore International Arbitration Center

 Korea - in accordance with the arbitration rules of the Korean Commercial Arbitration Board



 Hong Kong - in accordance with the arbitration rules of the Hong Kong International Arbitration Center

 Malaysia - in accordance with the arbitration rules of the Kuala Lumpur Regional Arbitration Centre

Taiwan - in accordance with the arbitration rules of the local Arbitration
Act

EMEA, India and countries not listed above: If Honeywell is a legal entity formed in a European, Middle Eastern and African country or formed in a country not identified above, then the construction, interpretation, performance, and enforcement hereof, all transactions hereunder and the parties relationship in connection therewith or any related claims whether founded in contract, tort or otherwise, will be governed by the laws of England and Wales without regard to or application of its principles or laws regarding conflicts of laws, and excluding the United Nations Convention on the International Sale of Goods of 1980 (and any amendments or successors thereto). Any dispute arising out of or relating to this Purchase Order, including the breach, termination or validity thereof, will be finally resolved by a panel of three arbitrators in accordance with the Rules for Arbitration of the International Chamber of Commerce. Judgment upon the award rendered by the arbitrators may be entered by any court having jurisdiction thereof. The place of arbitration will be London, England. 32.5 Additional rules applicable to Arbitration: Any award will be payable

32.5 Additional rules applicable to Arbitration: Any award will be payable in the currency of this Purchase Order. Either party may apply to the arbitrators seeking injunctive relief until the arbitration award is rendered or the controversy is otherwise resolved. Either party also may, without waiving any remedy under this Purchase Order, seek from any court having jurisdiction any interim or provisional relief that is necessary to protect the rights or property of that party, pending the arbitrators' determination of the merits of the controversy. The language of the arbitration will be English.

33. <u>Remedies</u>

All Honeywell remedies set forth in this Purchase Order are in addition to, and will in no way limit, any other rights and remedies at law or in equity.

34. Notices

Notices relating to this Purchase Order must be in writing and may be delivered personally, by recognized overnight courier, or by certified first class mail, postage prepaid (each to the respective address appearing on the face of this Purchase Order). A Notice will be deemed given on the date delivered if delivered personally; 3 business days after being placed in the mail as specified above or in the custody of an overnight courier as specified above.

35. Publicity

Supplier will not use Honeywell's name or marks or refer to or identify Honeywell in any advertising or publicity releases or promotional or marketing materials without Honeywell's prior written approval. Furthermore, Supplier will not claim or suggest, implicitly or explicitly, that Honeywell's use of its Goods constitutes Honeywell's endorsement of its Goods.

36. Non-Exclusivity / No Commitment

Nothing in this Purchase Order will restrict Honeywell's right to contract with any third party to provide or perform, or to provide or perform on its own behalf, products or services similar or identical to the Goods provided by Supplier pursuant to this Purchase Order. Furthermore, there is no requirement that any minimum level of business or fees be provided to Supplier by Honeywell.

37. Headings and Captions

Headings and captions are for convenience of reference only and do not alter the meaning or interpretation of any provision of this Purchase Order.

38. <u>Waiver</u>

The failure or delay of either Party to enforce at any time any of the provisions of this Purchase Order will be construed to be a continuing waiver of those provisions, nor will any failure or delay prejudice the right of the Party to take any action or to exercise any right or remedy to enforce any provision.

39. <u>Severability</u>

If any provision of this Purchase Order (or portion thereof) is held to be illegal, invalid, or unenforceable by a court of competent jurisdiction, the parties agree that the court will construe the provision in a manner that renders the provision valid and enforceable to the fullest extent possible under the law of the applicable jurisdiction and that the remaining provisions will remain in full force and effect.

40. Survival

All provisions of this Purchase Order which by their nature should apply beyond its term will remain in force after any termination or expiration of this Purchase Order including, but not limited to, those addressing the following subjects: Import/Customs Compliance; Drawback; Offset; Honeywell-Supplied Materials, Tooling, Equipment and Technical Data; Price; Price: Most Favored Customer and Meet or Release; Invoicing and Payment; Set Off; Warranty; Cessation of Production; General Indemnification; Intellectual Property Indemnification; Insurance; Lien Waivers; Confidentiality/Data Privacy and Intellectual Property; Audit; Relationship Between the Parties/Independent Contractor; Applicable Law and Forum; Remedies; Publicity; Waiver; and Survival.

41. Translations

Translations in various languages of this General Terms and Conditions of Purchase may be available for reference. In case of inconsistencies between translations and the original English version, the English version shall prevail.

APPENDIX I

Invoices



Invoice

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell 1985 Douglas Drive N MN10-132B Golden Valley, MN 55422 Attention: Charles Geadelmann Re : HWCGS Museum Prop-ACM Removal	Invoice # : J04409496 Invoice Date : 01/31/2017 Project : 3293161707 Contract Number : PO#4500195490 #37156 Due Date : 05/31/2017 Terms : Net 120 Days				
For Professional Services Rendered: 12/10/2016	6 to 01/31/2017				
invoice via RIMS					
Invoice Summary Totals					
Phase : 510001 Project Management Phase : 571001 RA (Soil Removal) TOTAL PHASE SUMMARY Amount Due this Invoice	1:	2,898.37 3,749.95 6,648.32 6,648.32			
Project Summary					
Phase	Authorized Budget	Total Billed To Date	Remaining Budget		
Phase: 510001 Project Management	8,626.00	9,248.31	-622.31		
Phase: 520001 Final Report	13,400.00	0.00	13,400.00		
Phase: 571001 RA (Soil Removal)	316,349.00	244,959.32	71,389.68		
Total : 3293161707 HWCGS Museum Prop-ACM Removal	338,375.00	254,207.63	84,167.37		

Outstanding Invoices for This Project					
Number	Date	Amount	Balance		
J04409058	12/01/2016	58,008.73	58,008.73		
J04409118	12/13/2016	179,550.58	179,550.58		
J04409496	01/31/2017	16,648.32	16,648.32		

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael.j.mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

U.S. Federal Tax ID # 91-1641772

Project Name: 3293161707 Project Number: HWCGS Museum Prop-ACM Removal		Invoice Date : Invoice # :	01/31/2017 J04409496
Phase : 510001 Project Management			
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Senior			
McGowan,Michael J	24.5	110.05	2,696.16
Total : Senior	24.5		2,696.16
Total Fees	24.5		2,696.16
Other			Amount
ODC Fee			202.21
Other Subtotal			202.21
Total Phase : 510001 Project Management		Fees :	2,898.37
		Expenses :	0.00
		Total :	2,898.37
Phase: 571001 RA (Soil Removal)			
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Senior Principal	o -	4.40.07	70.40
Caryl,Joseph W	0.5	146.87	73.43
Total : Senior Principal	0.5		73.43
NA&NC - Senior			
McGowan,Michael J	12.0	110.05	1,320.56
Total : Senior	12.0		1,320.56
NA&NC - Project			
Cunningham,Kurt L	75.5	79.66	6,014.11
Cunningham,Kurt L	2.0	79.66	159.31
Total : Project	77.5		6,173.42
Total Fees	90.0		7,567.41
Reimbursable Expenses			
Vendor Name	Cost	Multiplier	Amount
Transportation Cunningham,Kurt L	1,164.95	1.000	1,164.95
McKeever, Randall E	922.63	1.000	922.63
Total : Transportation	2,087.58		2,087.58
Other Travel	2,001.00		2,001.00
Cunningham,Kurt L	235.81	1.000	235.81
Total : Other Travel	235.81		235.81
Lodging Cunningham,Kurt L	2,057.80	1.000	2,057.80
-			
Total : Lodging Meals (Including Tips)	2,057.80		2,057.80
Cunningham,Kurt L	555.15	1.000	555.15
McKeever,Randall E	40.81	1.000	40.81

Project Name: 3293161707 Project Number: HWCGS Museum Prop-ACM Removal		Invoice Date : Invoice # :	
Phase: 571001 RA (Soil Removal)			
Reimbursable Expenses			
Vendor Name	Cost	Multiplier	Amount
Total : Meals (Including Tips)	595.96	_	595.96
Analytical Lab			
Quantem Laboratories LLC	48.00	1.050	50.40
Total : Analytical Lab	48.00		50.40
Other Cost			
Cunningham,Kurt L	32.00	1.000	32.00
FedEx - 332043838	449.59	1.000	449.59
UPS	105.84	1.000	105.84
Total : Other Cost	587.43	_	587.43
Total Reimbursable Expenses			5,614.98
Total Expenses			5,614.98
Other		_	Amount
ODC Fee			567.56
Other Subtotal			567.56
Total Phase: 571001 RA (Soil Removal)		Fees :	8,134.97
		Expenses :	5,614.98
		Total :	13,749.95
Total Project: 3293161707 HWCGS Museum Proj	n-ACM Removal		16.648.32

3293161707 -- HWCGS Museum Prop-ACM Removal

16,648.32



Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell 1985 Douglas Drive N MN10-132B Golden Valley, MN 55422 Attention: Charles Geadelmann Re : HWCGS Museum Prop-ACM Removal		Invoice I Pro Contract Nun Due I	ce #: J04409642 Date: 02/28/2017 jject: 3293161707 nber: PO#4500195490 #37156 Date: 06/28/2017 rms: Net 120 Days	
For Professional Services Rendered: 02/01/2017	to 02/28/2017			
invoice via RIMS				
Invoice Summary Totals				
Phase: 510001 Project Management Phase: 571001 RA (Soil Removal) TOTAL PHASE SUMMARY Amount Due this Invoice		295.75 1,673.78 1,969.53 1,969.53		
Project Summary			_	
Phase	Authorized Budget	Total Billed To Date	Remaining Budget	
Phase: 510001 Project Management	8,626.00	9,544.06	-918.06	
Phase: 520001 Final Report	13,400.00	0.00	13,400.00	
Phase: 571001 RA (Soil Removal)	316,349.00	246,633.10	69,715.90	
Total : 3293161707 HWCGS Museum Prop-ACM Removal	338,375.00	256,177.16	82,197.84	

Number	Date	Amount	Balance
J04409058	12/01/2016	58,008.73	58,008.73
J04409118	12/13/2016	179,550.58	179,550.58
J04409496	01/31/2017	16,648.32	16,648.32
J04409642	02/28/2017	1,969.53	1,969.53

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael.j.mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

Project Name: 3293161707 Project Number: HWCGS Museum Prop-ACM Removal			Invoice Date : Invoice # :	02/28/2017 J04409642
Phase : 510001 Project Management				
Fees				
Activity / Employee Name	Hours		Rate	Amount
NA&NC - Senior				
McGowan, Michael J	2.5		110.05	275.12
Total : Senior	2.5			275.12
Total Fees	2.5			275.12
Other				Amount
ODC Fee				20.63
Other Subtotal				20.63
Total Phase : 510001 Project Management			Fees :	295.75
			Expenses :	0.00
			Total :	295.75
Phase: 571001 RA (Soil Removal)				
Fees				
Activity / Employee Name	Hours		Rate	Amount
NA&NC - Senior Principal				
Caryl, Joseph W	1.5		146.87	220.30
Total : Senior Principal	1.5			220.30
NA&NC - Senior				
McGowan,Michael J	8.5		110.05	935.40
Total : Senior	8.5			935.40
NA&NC - Project				
Cunningham,Kurt L	1.5		79.66	119.49
Total : Project	1.5			119.49
Total Fees	11.5			1,275.19
Reimbursable Expenses				
Vendor Name		Cost	Multiplier	Amount
Transportation McKeever,Randall E		4.00	1.000	4.00
Total : Transportation		4.00		4.00
Other Travel McKeever,Randall E		70.00	1.000	70.00
Total : Other Travel		70.00		70.00
Meals (Including Tips) McKeever,Randall E		40.48	1.000	40.48
Total : Meals (Including Tips)		40.48		40.48
Supplies & Equipment McKeever,Randall E		188.47	1.000	188.47
Total : Supplies & Equipment		188.47		188.47
. Star i sabbuss a Edabulant				

Project Name : 329 Project Number : H	3161707 WCGS Museum Prop-ACM Removal	Invoice Date : Invoice # :	02/28/2017 J04409642
	Total Expenses		302.95
Other			Amount
ODC Fee			95.64
Other Subtota	I		95.64
Total Phase : 571001 RA (Soil Removal)		Fees :	1,370.83
		Expenses :	302.95
		Total :	1,673.78
Total Project:	3293161707 HWCGS Museum Prop-ACM Re	moval	1,969.53

neywell Project Name RM HW Torch Lake/ Museum Property Geadelmanr	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget		Month	Sp	ent to Date		Budent	C	-		-
and the second										-	ciit to bate		Budget	Spent	 EIC	EAC	WAR
Museum Property Geadelmann																	
	37156	McGowan	4500180294	1/20/17	1100	3293161676	40,752.00	\$		\$	40,703.44	\$	48.56	99.9%	\$ 48.56	\$ 40,752.00	\$ -
					2100	\$	88,599.00	\$	2,245.74	\$	65,918.98	\$	22,680.02	74.4%	\$ 22,680.02	\$ 88,599.00	\$ -
					9400	\$	14,058.00	\$	1.68	\$	10,598.69	\$	3,459.31	75.4%	\$ 3,459.31	\$ 14,058.00	\$ -
						\$	143,409.00	\$	2,247.42	\$	117,221.11	\$	26,187.89	81.7%	\$ 26,187.89	\$ 143,409.00	\$ -
HW Torch Lake/									-			-			 	 	~ ~ ~
Museum Property Geadelmann	37156	McGowan	4500180294	1/20/2017		3293161676 \$	143,409.00	5	2,247.42	\$	117,221.11	\$	26, 187.89	81.75	\$ 26,187.89	\$ 143,409.00	5 -



Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04409449
1985 Douglas Drive N	Invoice Date : 01/24/2017
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
	Due Date: 05/24/2017
Attention: Charles Geadelmann	Terms : Net 120 Days
Re HW Torch Lake/Museum Property	

For Professional Services Rendered: 11/26/2016 to 01/20/2017

Invoice Summary Totals

Phase : 2100 Remedial Investigation		2,245.74	
Phase : 9400 Incentive Fee		1.68	
TOTAL PHASE SUMMARY		2,247.42	
Amount Due this Invoice		2,247.42	
Project Summary			
Phase	Authorized Budget	Total Billed To Date	Remaining Budget

			•
Phase: 1100 Identification/Site History	40,752.00	40,703.44	48.56
Phase: 2100 Remedial Investigation	88,599.00	65,918. 9 8	22,680.02
Phase: 9400 Incentive Fee	14,058.00	10,598.69	3,459.31
Total : 3293161676 HW Torch Lake/Museum	143,409.00	117,221.11	26,187.89
Property			

	Outstanding Invoices			
Number	Date	Amount	Balance	
J04408865	10/23/2016	41,078.58	41,078.58	
J04409055	12/01/2016	15,513.36	15,513.36	
J04409449	01/24/2017	2,247.42	2,247.42	

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael.i mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

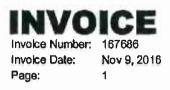
Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property		iπvoice Date: Invoice #:	01/24/2017 J04409449
Phase : 2100 Remedial Investigation			
Fees			
Activity / Employee Name	Hours	Rate	Amour
NA&NC - Admin	········		
Harmon, Diane	0.3	56.04	16.8
Total : Admin	0.3	_	16.8
Total Fees	0.3		16.8
Reimbursable Expenses			
Vendor Name	Cost	Multiplier	Amour
Analytical Lab Quantem Laboratories LLC	616.00	1.050	646.8
Total : Analytical Lab	616.00	_	646.8
Equipment Rental			
Pine Environmental Services, Inc.	1,441.23	1.000	1,441.2
Total : Equipment Rental	1,441.23	_	1,441.2
Other Cost			
FedEx - 332043838	27.56	1.000	27.5
FedEx 004100050	112.67	1.000	112.6
Total : Other Cost	140.23		140.2
Total Reimbursable Expenses			2,228.2
Total Expenses			2,228.2
Other			Amour
DC Fee		_	0.6
Other Subtotal			0.6
otal Phase : 2100 Remedial Investigation		Fees :	17.4
		Expenses :	2,228.2
		Total :	2,245.7

Other	An	nount
Fee		1.68
Other Subtotal		1.68
Total Phase : 9400 Incentive Fee	Fees :	1.68
	Expenses :	0.00
	Total :	1.68

3293161676 -- HW Torch Lake/Museum Property

2,247.42





2033 Heritage Park Drive Oklahoma City, OK 73120

4.4

BIII To:	Ship to:
AMEC Novi-MI 46850 Magellan Dr STE 190 Novi, MI 48377	

Consistent D.	Quistoinit PD.	Payman	Theorem.
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Sulas Rep -0	Shipping distant	Sillip Date	Die Date
AB			12/9/16

Guineithy		Description	Bint Prize	Anterant
56.00	PCM		5.00	280.00
56.00	PCM Samples		6.00	336.00
		67829 167830 167974 167975 167941	13	
	167942 167943 167973 168			
	Lab No: 272166, Project: Fo			
ĺ	3293161676, Location: Lake Linden, MI, Project Manager: Kurt		i l	
	Cunningham			
	10			
	<u> </u>	Subtotal	- <u>-</u>	616.0
		Sales Tax		
		Total Invoice Amount		616.0
heck/Credit Men	no No:	Payment/Credit Applied		
		TOTAL		616.0

1.5% per month on past due amounts

			AMEC FW		ħ	Aonthly Proje	ect Financial Summ	ary-through Fe	brua	ary 24, 2017					% Based				
	Honeywell	Honeywell	Proj	Honeywell			AMEC FW FW		S	pent Last			R	Remaining	on Actual	i			
Honeywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget		Month	S	pent to Date		Budget	Spent	-	ETC	EAC	WAY
HW Torch Lake/			1000		1.11.11.11.11	1.	1000	1							-			1997 A.B.	
Museum Property	Geadelmann	37156	McGowan	4500180294	2/24/17	1100	3293161676 \$	40,752.00	\$		\$	40,703.44	\$	48.56	99.9%	\$	48.5% \$	40,752.00	\$ -
						2100	\$	88,599.00	\$	1,021.67	\$	66,940.65	\$	21,658.35	75.6%	\$	21,658.35 \$	38,599.00	\$.
						9400	\$	14,058.00	\$	52.25	\$	10,650.94	\$	3,407.06	75.8%	\$	3,407.05 \$	14,058.00	\$ -
							\$	143,409.00	\$	1,073.92	\$	118,295.03	\$	25,113.97	82.5%	\$	25,113.97 \$	143,409.00	\$ -
HW Torch Lake/		-		-			\$	143,409.00	\$	1,073.92	\$	118,295.03	\$	25,113.97	82.5%	\$	25,113.97 \$	143,409.01	0
perty	Geadelmann	37156	McGowan	4500180294	2/24/2017		3293161676 \$	143,409.00	s	1,073.92	5	118,295 03	s	25,113.97	82.59		25,113.97 \$	143,409.00	5 -

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice #: J04409577
1985 Douglas Drive N	Invoice Date : 02/24/2017
MN10-132B	Project: 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
Alter the Charles Constalians	Due Date: 06/24/2017
Attention: Charles Geadelmann	Terms: Net 120 Days

Re HW Torch Lake/Museum Property

For Professional Services Rendered: 01/21/2017 to 02/24/2017

Invoice Summary Totals

Phase : 2100 Remedial Investigation		1,021.67	
Phase : 9400 Incentive Fee		52.25	
TOTAL PHASE SUMMARY		1,073.92	
Amount Due this Invoice		1,073.92	
Project Summary			
Dhara	Authorized	Total Billed	Remaini

Phase	Authorized Budget	Total Billed To Date	Remaining Budget
Phase: 1100 Identification/Site History	40,752.00	40,703.44	48.56
Phase: 2100 Remedial Investigation	88,599.00	66,940.65	21,658.35
Phase: 9400 Incentive Fee	14,058.00	10,650.94	3,407.06
Total : 3293161676 HW Torch Lake/Museum Property	143,409.00	118,295.03	25,113.97

	Outstanding Invoice	s for This Project	N
Number	Date	Amount	Balance
J04409055	12/01/2016	15,513.36	15,513.36
J04409449	01/24/2017	2,247.42	2,247.42
J04409577	02/24/2017	1,073.92	1,073.92

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Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael i.mcgowan@amecfw.com</u> Please visit our website at <u>http://www.amecfw.com</u>



Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property				
Hours	Rate	Amount		
4.5	116.10	522.47		
4.5	_	522.47		
4.5		522.47		
Cost	Multiplier	Amount		
480.00	1.040	499.20		
480.00		499.20		
		499.20		
		499.20		
	Fees :	522.47		
	Expenses :	499.20		
	Total :	1,021.67		
	4.5 4.5 4.5 Cost 480.00	4.5 116.10 4.5 4.5 4.5 Multiplier 480.00 1.040 480.00 Fees : Expenses :		

Other		Amount
Fee		52.25
Other Subtotal		52.25
Total Phase : 9400 Incentive Fee	Fees :	52.25
	Expenses :	0.00
	Total :	52.25

3293161676 -- HW Torch Lake/Museum Property

1,073.92



INVO	ICE
Invoice Number:	1701020

480.00

ITTAORG TAGETTO	ar. 1101020
Invoice Date:	Jan 26, 2017
Page:	1

2033 Heritage Park Drive Oklahoma City, OK 73120

Bill To:

AMEC Novi-MI 46850 Magellan Dr STE 190 Novi, MI 48377 Ship to: 11111111111

AMEC Novi-MI 46850 Magellan Dr STE 190 Novi, MI 48377

	Customer 10	111	Customer PO	Paymen	t Terms
	B894		3293161676 _ 2100 _ 0	Net 30	Days
T	Sales Rep 10		Shipping Method	Ship Date	Due Date
					2/25/17

Quentity	LATEST TO THE	1111	Description	Unit Price	Amount
80.00	PCM Samples			6.00	480.00
		8			
	~				
			Subtotal		480.0
		L L	Sales Tax Total Invoice Amount		480.0
		ł	Payment/Credit Applied		400.0
heck/Credit Men	ID NO:				

1.5% per month on past due amounts

TOTAL

			AMEC FW			Monthly Pr	oject Financial !	Sum	mary- through	Ma	ny 6, 2016					% Based					
	Honeywell	Honeywell	Proj	Honeywell	Inv Thru		AMEC FW FW			s	pent Last				Remaining	on Actual					
ioneywell Project Name	RM	Project #	Manager	PO#	Date	Cost Code	Project #		Budget	_	Month	Sp	ent to Date		Budget	Spent		EIC		EAC	W/AR
Torch Lake/Museum Property	Geadelmann	37156	McGowan	4500180294	5/6/16	1100	3293161676	\$	40,752.00	\$	14,143.29	\$	14,143.29	\$	26,608.71	34.7%	\$	26,608.71	\$	40,752.00	\$-
						2100		\$	88,599.00			\$		\$	88,599.00	0.0%	\$	\$8,599.00	\$	88,599.00	#####
						9400		\$	14,058,00		1,359.93		1,359.93	\$	12,698.07	9.7%	\$	12,698.07	\$	14,058.00	\$-
								\$	143,409.00	s	15,503.22	\$	15,503.22	\$	127,905.78	10.8%	\$	127,905.78	\$	143,409.00	***
Torch Lake/Museum									THE PARTY			-		-			~		-		
Property	Geadelmann	37156	McGowan	4500180294	5/6/2016		3293161676	\$1	143,409.00	\$	15,503.22	\$	15,501.22	\$	127,905.78	10.8%	5	127,905.78	\$	143,409.00	mmm



Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04407768
1985 Douglas Drive N	Invoice Date : 05/16/2016
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
Alter it Charles Oracitales and	Due Date : 08/29/2016
Attention: Charles Geadelmann	Terms : Net 105 Days
Re 🔝 HW Torch Lake/Museum Property	

For Professional Services Rendered: 02/06/2016 to 05/06/2016

Invoice Summary Totals

Property

Phase : 1100 Identification/Site History	1	4,143.29	
Phase : 9400 Incentive Fee		1,359.93	
TOTAL PHASE SUMMARY	1	5,503.22	
Amount Due this Involce	1	5,503.22	
Project Summary			
	Authorized	Total Billed	Remain

Phase	Authorized Budget	Total Billed To Date	Remaining Budget
Phase: 1100 Identification/Site History	40,752.00	14,143.29	26,608.71
Phase: 2100 Remedial Investigation	88,599.00	0.00	88,599.00
Phase: 9400 Incentive Fee	14,058.00	1,359.93	12,698.07
Total : 3293161676 HW Torch Lake/Museum	143,409.00	15,503.22	127,905.78

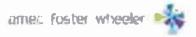
Outstanding Invoices for This Project											
Number	Date	Amount	Balance								
J04407768	05/16/2016	15,503.22	15,503.22								

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael i.mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>



ject Name: 3293161676 ject Number: HW Torch Lake/Museum Property		Involce Date : Invoice # :	05/16/2016 J04407768
se : 1100 Identification/Site History			
ees			
ctivity / Employee Name	Hours	Rate	Amoun
IA&NC - Senior Principal			
Caryl, Joseph W	1.5	169.77	254.66
Total : Senior Principal	1.5	_	254.66
IA&NC - Senior Principal			
Groonian, Sandra L	8.5	146.71	1,247.08
Total : Senior Principal	8.5	-	1,247.08
IA&NC - Senior			
AcGowan, Michael J	85.0	127.21	10,812.81
Total : Senior	85.0		10,812.81
IA&NC - Senior			
meryDeVisser.Anita M	10.0	119.88	1,198.77
Total : Senior	10.0	-	1,198.77
IA&NC - Technical Professional 1			
Sibney,Bonnie M	1.0	58.87	58.87
Total : Technical Professional 1	1.0	_	58.87
IA&NC - Admin			
AcLean, Deanna D	0.6	45.21	27.13
Total : Admin	0.6	-	27.13
Total Fees	106.6		13,599.32
er .			Amoun
C Fee			543.97
Other Subtotal			543.97
al Phase : 1100 Identification/Site History		Fees :	14,143.29
,		Expenses :	0.00
		Total :	14,143.29
ise : 9400 Incentive Fee			
er			Amoun
			1,359.93
Other Subtotal			1,359.93
al Phase : 9400 Incentive Fee		Fees :	1,359.9;
		Expenses :	0.00
		Total :	1,359.93
al Project: 3293161676 HW Torch I	Lake/Museum Property	iotai:	

						Monthly Pro	oject Financial Sum	mary- through	May	26, 2017								
Honeywell Project Name	Honeywell RM	Honeywell Project #	AMEC FW Proj Manager	Honeywell PO#	Inv Thru Date		AMEC FW FW Project #	Budget	•	pent Last Month	5.	ent to Date	Remaining Budget	% Based on Actual		ETC	EAC	
HW Torch Lake/	NIVI	Floject #	wanager	FO#	inv this bate	COSCEDUE	Floject#	Douger		WOITUI	관	Jent to Date	buuget	Spent		EIC	EAL	VAR
Museum Property	Geadelmann	37156	McGowan	4500180294	5/26/17	1100	3293161676 \$	40,752.00	\$	-	\$	40,703.44 \$	48.56	99.9%	\$	48.56 \$	40,752.00	\$-
						2100	\$	88,599.00	\$	2,713.13	\$	69,653.78 \$	18,945.22	78.6%	\$	18,945.22 \$	88,599.00	\$-
						9400	\$	14,058.00	\$	271.31	\$	10,922.25 \$	3,135.75	77.7%	\$	3,135.75 \$	14,058.00	\$ -
							\$	143,409.00	\$	2,984.44	\$	121,279.47 \$	22,129.53	84.6%	\$	22,129.53 \$	143,409.00	\$ -
HW Torch Lake/											· · ·							
Museum Property	Geadelmann	37156	McGowan	4500180294	5/26/17		3293161676 \$	143,409.00	Ŝ	2,984,44	Ś	121,279.47 \$	22,129.53	84.69	65	22,129.53 \$	143,409.00	Ś -

amec foster wheeler 🎫

Invoice

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04410144
1985 Douglas Drive N	Invoice Date: 05/30/2017
MN10-132B	Project: 3293161676
Golden Valley, MN 55422	Contract Number : PO#4500180294 #37156
	Due Date: 09/27/2017
Attention: Charles Geadelmann	Terms : Net 120 Days
Re HW Torch Lake/Museum Property	

For Professional Services Rendered: 02/25/2017 to 05/26/2017

Invoice Summary Totals

Phase : 2100 Remedial Investigation	2,713.13
Phase : 9400 Incentive Fee	271.31
TOTAL PHASE SUMMARY	2,984.44
Amount Due this Invoice	2,984.44
=	

Project Summary

Phase	Authorized Budget	Total Billed To Date	Remaining Budget
Phase: 1100 Identification/Site History	40,752.00	40,703.44	48.56
Phase: 2100 Remedial Investigation	88,599.00	69,653 78	18,945.22
Phase: 9400 Incentive Fee	14,058.00	10,922.25	3,135.75
Total : 3293161676 - HW Torch Lake/Museum Property	143,409.00	121,279.47	22,129.53

	Outstanding Invoices		
Number	Date	Amount	Balance
J04409449	01/24/2017	2,247,42	2,247.42
J04409577	02/24/2017	1,073.92	1,073 92
J04410144	05/30/2017	2,984.44	2,984.44

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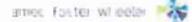
Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to michael i.mcqowan@amecfw.com. Please visit our website at http://www.amecfw.com

Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property		Invoice Date : Invoice # :	05/30/2017 J04410144
Phase : 2100 Remedial Investigation			
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Senior Project			
Bondy,Garret E	3.0	190.58	571.74
Total : Senior	3.0		571.74
NA&NC - Project Manager			
McGowan, Michael J	15.5	119.58	1,853.45
Total : Project Manager	15.5	_	1,853.45
NA&NC - Admin			
Osenroth,Sarah K	4.5	63.99	287 94
Total : Admin	4.5	_	287.94
Total Fees	23.0		2,713.13
Total Phase : 2100 Remedial Investigation		Fees :	2,713.13
		Expenses :	0.00
		Total :	2,713.13
Phase : 9400 Incentive Fee			
Other			Amount
Fee		-	271.31
Other Subtotal			271.31
Total Phase : 9400 Incentive Fee		Fees :	271,31
		Expenses :	0.00
		Total :	271.31
Total Project: 3293161676 HW Torch La	ke/Museum Property		2,984.44

	Honeywell	Honeywell	AMEC FW	Hereinstell									1.3		% Based					
oneywell Project Name	RM	Project #	Proj Manager	Honeywell PO#	Inv Thru Date		AMEC FW FW Project #	Rednet		pent Last Month	-	ent to Date	1	Remaining	on Actual		-			-
Torch Lake/Museum	NW.	Froject #	wanager	FU#	inv thru bate	COST CODE	Project #	Budget	-	Monta	Spi	ent to Date		Budget	Spent		ETC	-	EAC	VAR
Property	Geadelmann	37156	McGowan	4500180294	6/10/16	1100	3293161676 \$	40,752.00	\$	3,168.34	\$	17,311.63	\$	23,440.37	42.5%	5	23,440.37	\$	40,752.00	5 -
						2100	\$	88,599.00	\$		\$		\$	88,599.00	0.0%	\$	88,599.00	\$	88,599.00	\$ -
						9400	\$	14,058.00	\$	304.65	\$	1,664.58	\$	12,393.42	11.8%	\$	12,393.42	\$	14,058.00	\$ -
							\$	143,409.00	\$	3,472.99	\$	18,976.21	\$	124,432.79	13.2%	\$	124,432.79	\$	143,409.00	\$ -
Torch Lake/Museum									-	-	-				~ ~~~	~		~		
Property	Geadelmann	37156	McGowan	4500180294	6/10/2016		3293161676 \$	143,409.00	\$	3,472.99	5	18,976.21	\$	124,432.79	13.2%	5	124,432.79	\$	143,409.00	5 -



Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04407893
1985 Douglas Drive N	Invoice Date : 06/15/2016
MN10-132B	Project: 3293161676
Golden Valley, MN 55422	Contract Number : PO#4500180294 #37156
	Due Date : 09/28/2016
Attention: Charles Geadelmann	Terms : Net 105 Days
Re HW Torch Lake/Museum Property	

For Professional Services Rendered: 05/07/2016 to 06/10/2016

Invoice Summary Totals

Phase : 1100 Identification/Site History		3,168.34	
Phase : 9400 Incentive Fee		304.65	
TOTAL PHASE SUMMARY		3,472.99	
Amount Due this Invoice		3,472.99	
Project Summary			
	Authorized	Total Billed	Remain

Phase	Authorized Budget	Total Billed To Date	Remaining Budget
Phase: 1100 Identification/Site History	40,752.00	17,311.63	23,440.37
Phase: 2100 Remedial Investigation	88,599.00	0.00	88,599.00
Phase: 9400 Incentive Fee	14,058.00	1,664.58	12,393,42
Total : 3293161676 HW Torch Lake/Museum Property	143,409.00	18,976.21	124,432.79

	Outstanding Invoices	for This Project	
Number	Date	Amount	Balance
J04407768	05/16/2016	15,503.22	15,503.22
J04407893	06/15/2016	3,472.99	3,472.99

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to michael. mcgowan@amecfw.com. Please visit our website at http://www.amecfw.com

Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property		Invoice Date Invoice # :	06/15/2016 J04407893
Phase : 1100 Identification/Site History			
Fees			
Activity / Employee Name	Hours	Rate	Amouni
NA&NC - Senior			
McGowan, Michael J	23.5	127.21	2,989.42
Total : Senior	23.5		2,989.42
A&NC - Assigned & Not Co-Located			
Whitcomb, Julie	1.0	57.06	57.06
Total : Assigned & Not Co-Located	1.0		57.06
Total Fees	24.5		3,046.48
Other		_	Amouni
ODC Fee			121.86
Other Subtotal			121.86
Total Phase : 1100 Identification/Site History		Fees :	3,168.34
		Expenses :_	0.00
	-	Total :	3,168.34
Phase : 9400 Incentive Fee			
Other		_	Amount
Fee			304.65
Other Subtotal			304.65
Total Phase : 9400 Incentive Fee		Fees :	304.65
		Expenses :	0.00
		Total :	304.65

3293161676 --- HW Torch Lake/Museum Property

3,472.99

			AMEC FW			Monthly P	roject Financial	Summa	ary-through	July	y 1, 2016					% Based					
	Honeywell	Honeywell	Proj	Honeywell			AMEC FW FW			S	pent Last			1	Remaining	on Actual					
Honeywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Bu	udget		Month	Spe	ent to Date	_	Budget	Spent	-	ETC		EAC	WAR
HW Torch Lake/		1000		1.000							1000			1.1		100				1.0	
Museum Property	Geadelmann	37156	McGowan	4500180294	7/1/16	1100	3293161676	\$	40,752.00	\$	2,168.99	\$	19,480.62	\$	21,271.38	47.8%	5	21,271.38	\$	40,752.00	\$ -
						2100		\$	88,599.00	\$		\$	8	\$	88,599.00	0.0%	\$	88,599.00	\$	88,599.00	\$ -
						9400		\$	14,058.00	\$	208.55	\$	1,873.14	\$	12,184.86	13.3%	\$	12,184.85	\$	14,058.00	\$ -
								\$ 1	43,409.00	\$	2,377.55	\$	21,353.76	\$	122,055.24	14.9%	\$	122,055.24	\$	143,409.00	5 -
HW Torch Lake/			-	-	1216112		Service and	-			5 million (-	Sec. 2.2	N.	Contractory.			Same			
Museum Property	Geadelmann	37156	McGowan	4500180294	7/1/2016		3293161676	\$ 1	43,409.00	\$	2,377.55	\$	21,353.76	\$	122,055,24	14.99	6 \$	122,055 24	Ş	143,409.00	\$ -

.



Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04408094
1985 Douglas Drive N	Invoice Date : 07/02/2016
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
Mustine Chadas Candalmana	Due Date : 10/30/2016
Attention: Charles Geadelmann	Terms : Net 120 Days
Re HW Torch Lake/Museum Property	

For Professional Services Rendered: 06/11/2016 to 07/01/2016

Invoice Summary Totals

Property

Phase : 1100 Identification/Site History		2,168.99	
Phase : 9400 Incentive Fee		208.56	
TOTAL PHASE SUMMARY		2,377.55	
Amount Due this Invoice		2,377.55	
Project Summary	· <u> </u>		
Phase	Authorized Budget	Total Billed To Date	Remaining Budget

	enañer	to Date	Dudger
Phase: 1100 Identification/Site History	40,752.00	19,480.62	21,271.38
Phase: 2100 Remedial Investigation	88,599.00	0.00	88,599.00
Phase: 9400 Incentive Fee	14,058.00	1,873.14	12,184.86
Total : 3293161676 HW Torch Lake/Museum	143,409.00	21,353.76	122,055.24

	Outstanding Invoices for This Project								
Number	Date	Amount	Balance						
J04407768	05/16/2016	15,503.22	15,503,22						
J04407893	06/15/2016	3,472.99	3,472.99						
J04408094	07/02/2016	2,377.55	2,377.55						

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Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael i.mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

Project Name : 3293161676 Project Number : HW Torch Lake/Museum Property		Invoice Date Invoice # :	07/02/2016 J04408094
Phase : 1100 Identification/Site History			24
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Senior Project			
Bondy,Garrel E	2.5	200.79	501.99
Total : Senior Project	2.5	-	501.99
NA&NC - Senior			
McGowan, Michael J	12.0	127.21	1,526.52
Total : Senior	12.0	-	1,626.52
A&NC - Assigned & Not Co-Located			
Whitcomb, Julie	1.0	57.06	57.06
Total : Assigned & Not Co-Located	1.0	-	57.06
Total Fees	15.5		2,085.57
Other		_	Amount
ODC Fee			83.42
Other Subtotal			83.42
Total Phase : 1100 Identification/Site History		Fees :	2,168.99
		Expenses :	0.00
		 Total :	2,168.99
Phase : 9400 Incentive Fee			
Other		_	Amount
Fee			208.56
Other Subtotal			208.56
Total Phase : 9400 - Incentive Fee		Fees :	208.56

3293161676 - HW Torch Lake/Museum Property

2.377.55

0.00

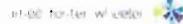
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208.56

Expenses :

Total :

			AMEC FW			Monthly Pr	oject Financial	Sumn	mary-through.	July	22, 2016					% Based					
	Honeywell	Honeywell	Proj	Honeywell			AMEC FW FW			Sp	pent Last			1	Remaining	on Actual	, I I I				
Honeywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project#	1.15	Budget		Month	Sp	pent to Date		Budget	Spent		ETC		EAC	W/
HW Torch Lake/											10.00		10.0					1000			
Museum Property	Geadelmann	37156	McGowan	4500180294	7/22/16	1100	3293161676	\$	40,752.00	\$	5,837.96	\$	25,318.58	\$	15,433.42	62.1%	\$	15,433.42	\$	40,752.00	\$.
						2100		\$	88,599.00	\$		\$		\$	88,599.00	0.0%	\$	88,599.00	\$	\$8,599.00	\$
						9400		\$	14,058.00	\$	487.78	\$	2,360.92	\$	11,697.08	16.8%	\$	11,697.08	\$	14,058.00	\$
								\$	143,409.00	\$	6,325.74	\$	27,679.50	\$	115,729.50	19.3%	\$	115,729.50	\$	143,409.00	\$
HW Torch Lake/		-								-		-	-						-		
Museum Property	Geadelmann	37156	McGowan	4500180294	7/22/2016		3293161676	\$	143,409.00	5	6,325.74	\$	27,679.50	\$	115,729.50	19.37	6.5	115,729.50	\$	143,409.00	5



Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04408308
1985 Douglas Drive N	Invoice Date : 07/29/2016
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
All the Observer Oscillation	Due Date: 11/25/2016
Attention: Charles Geadelmann	Terms: Net 120 Days
Re 🐘 HW Torch Lake/Museum Property	

143,409.00

For Professional Services Rendered: 07/02/2016 to 07/22/2016

Invoice Summary Totals

Phase : 1100 Identification/Site History		5,837.96	
Phase : 9400 Incentive Fee		457.78	
TOTAL PHASE SUMMARY		6,295.74	
Amount Due this Invoice		6,295.74	
Project Summary			
Phase	Authorized Budget	Total Billed To Date	Remaining Budget
Phase: 1100 Identification/Site History	40,752.00	25,318.58	15,433.42
Phase: 2100 - Remedial Investigation	88,599.00	0.00	88,599.00
Phase: 9400 Incentive Fee	14,058.00	2,330.92	11,727.08

Phase: 9400 -- Incentive Fee Total: 3293161676 -- HW Torch Lake/Museum Property

	Outstanding Invoices for This Project									
Number	Date	Amount	Balance							
J04407768	05/16/2016	15,503.22	15,503.22							
J04407893	06/15/2016	3,472.99	3,472.99							
J04408094	07/02/2016	2,377.55	2,377.55							
J04408308	07/29/2016	6,295.74	6,295.74							

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115.759.50

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negoliated).

Please quote invoice number with remittance. Direct all billing inquiries to michael j.mcgowan@amecfw.com. Please visit our website at http://www.amecfw.com

U.S. Federal Tax ID # 91-1641772

27,649.50



roject Name: 3293161676 roject Number: HW Torch Lake/Museum Property			Invoice Date : Invoice # :	07/29/2016 J04408308
hase - 1100 Identification/Site History				·
Fees				
Activity / Employee Name	Hours		Rate	Amoun
NA&NC - Senior Project				
Bondy,Garret E	0.5		200.79	100.40
Total : Senior Project	0.5			100.40
NA&NC - Senior				
McGowan, Michael J	34.5		127.21	4,388.74
Total : Senior	34.5			4,388.74
NA&NC - Admin				
Denson, Paulette T	0.2		71.52	14.30
Total : Admin	0.2		_	14.30
NA&NC - Technician				
Potter, Edward K	0.3		57.56	17.27
Total : Technician	0.3		_	17.27
A&NC - Assigned & Not Co-Located				
Whitcomb, Julie	1.0		57.06	57.06
Total : Assigned & Not Co-Located	1.0			57.00
Total Fees	36.5			4,577.7
Reimbursable Expenses				
Vendor Name		Cost	Multiplier	Amoun
Transportation				
McGowan, Michael J		745.30	1.000	745.30
Total : Transportation		745.30		745.30
Other Travel				
McGowan,Michael J Sroonian,Sandra L		85.00 48.75	1.000 1.000	85.00
	-		-1.000	48.75
Total : Other Travel Auto/Mileage		133.75		133.75
McGowan.Michael J		32.40	1.000	32.40
Sroonian,Sandra L		7.56	1.000	7.56
Total : Auto/Mileage		39.96		39.96
Lodging				
McGowan, Michael J		97.01	1 000	97.01
Total : Lodging		97.01		97.01
Meals (Including Tips)				
McGowan,Michael J		26 12	1.000	26.12
Sroonian, Sandra L		34.94	1.000	
Total : Meals (Including Tips)		61.06		61.06
Total Reimbursable Expenses				1,077.08

Project Name : 3293161676	Invoice Date :	07/29/2016
Project Number : HW Torch Lake/Museum Property	Invoice # :	J04408308
Other		Amount
ODC Fee		183.11
Other Subtotal		183.11
Total Phase : 1100 Identification/Site History	Fees :	4,760.88
	Expenses :	1,077.08
	Total :	5,837.96
Phase : 9400 Incentive Fee		
Other	-	Amount
Other Fee		457.78
Other		
Other Fee	- Fees :	457.78
Other Fee Other Subtotal	Fees : Expenses :	457.78 457.78
Other Fee Other Subtotal		457.78 457.78 457.78

	Honeywell	Honeywell	Proj	Honeywell			AMEC FW FW		1	Spent Last			R		% Based on Actual				
Ioneywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget		Month	Sp	ent to Date		Budget	Spent		ETC	EAC	VAR
HW Torch Lake/										1.000.000		and a Tana							
Museum Property	Geadelmann	37156	McGowan	4500180294	8/19/16	1100	3293161676 \$	40,752.00	\$	8,287.50	\$	33,606.08 \$	5	7,145.92	82.5%	5	7,145.92 \$	40,752.00	\$ -
						2100	\$	88,599.00	\$	C. A.	\$	- \$	\$	88,599.00	0.0%	\$	88,599.00 \$	88,599.00	\$ -
						9400	\$	14,058.00	\$	752.31	\$	3,083.23 \$	5	10,974.77	21.9%	\$	10,974.77 \$	14,058.00	5 -
							\$	143,409.00	\$	9,039.81	\$	36,689.31 \$	1	106,719.69	25.6%	\$	106,719.69 \$	143,409.00	\$ -
HW Torch Lake/									_		_		_				_		_
Museum Property	Geadelmann	37156	McGowan	4500180294	8/19/2016		3293161676 \$	143,409.00	\$	9,039.81	\$	36,689.31 \$	5	105,719.69	25.6%	6 5	105,719.69 \$	143,409.00	5 -

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04408374
1985 Douglas Drive N	Invoice Date : 08/20/2016
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
	Due Date : 12/18/2016
Attention: Charles Geadelmann	Terms : Net 120 Days
Re HW Torch Lake/Museum Property	

14,058.00

143,409.00

For Professional Services Rendered: 07/23/2016 to 08/19/2016

Invoice Summary Totals

Phase : 1100 Identification/Site History		8,287.50	
Phase : 9400 Incentive Fee		752.31	
TOTAL PHASE SUMMARY		9,039.81	
Amount Due this Invoice		9,039.81	
Project Summary			
	Authorized	Total Billed	Remaining
Phase	Budget	To Date	Budget
Phase: 1100 Identification/Site History	40,752.00	33,606.08	7,145.92
Phase: 2100 Remedial Investigation	88,599.00	0.00	88,599.00

Phase: 9400 -- Incentive Fee Total : 3293161676 -- HW Torch Lake/Museum Property

Outstanding Invoices for This Project								
Number	Date	Amount	Balance					
J04407768	05/16/2016	15,503.22	15,503.22					
J04407893	06/15/2016	3,472.99	3,472.99					
J04408094	07/02/2016	2,377.55	2,377.55					
J04408308	07/29/2016	6,295.74	6,295.74					
J04408374	08/20/2016	9,039.81	9,039.81					

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

10,974.77

106,719.69

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance.

Direct all billing inquiries to michael 1 mcqowan@amecfw.com. Please visit our websile at http://www.amecfw.com

U.S. Federal Tax ID # 91-1641772

3,083.23

36,689.31

Project Name : 3293161676 Project Number : HW Torch Lake/Museum Property			Invoice Date Invoice # :	08/20/2016 J04408374
Phase : 1100 Identification/Site History				, <u></u> .
Fees				
Activity / Employee Name	Hours		Rate	Amour
NA&NC - Senior Project				
Bondy,Garret E	1.0		200.79	200.8
Total : Senior Project	1.0		-	200.8
NA&NC - Senior				
McGowan, Michael J	57.0		127.21	7,250.9
Total : Senior	57.0		-	7,250.9
NA&NC - Admin				
Denson, Paulette T	0.2		71.52	14.3
Total : Admin	0.2		-	14.3
A&NC - Assigned & Not Co-Located				
Whitcomb, Julie	1.0		57.06	57.0
Total : Assigned & Not Co-Located	1.0		-	57.0
Total Fees	59.2			7,523.1
Reimbursable Expenses Vendor Name		Cost	Multiplier	Amour
Transportation				
McGowan,Michael J		200.74	1.000	200.7
Total : Transportation		200.74	-	200.7
Other Travel				
McGowan, Michael J		109.85	1.000	109.8
Total : Other Travel		109.85		109.8
Lodging McGowan,Michael J		125.28	1.000	125.2
		125.28	-	
Total : Lodging Meals (Including Tips)		125.28		125.2
McGowan, Michael J		27.60	1 000	27.6
Total : Meals (Including Tips)	_	27.60	-	27.6
Total Reimbursable Expenses				463.4
Total Expenses				463.4
ther			-	Amour
DC Fee			<u> </u>	300.9
Other Subtotal				300.9
otal Phase : 1100 🖵 Identification/Site History			Fees :	7,824.0
			Expenses :	463.4
			Total :	8,287.50

Phase: 9400 -- Incentive Fee

Project Name : 329316* Project Number : HW T	1676 orch Lake/Museum Property	Invoice Date : Invoice # :	08/20/2016 J04408374
	aren Ferrenurgann Liobarta		
Other		-	Amou
Fee			752.3
Other Subtotal			752.3
Total Phase : 9400 Incentive Fee		Fees :	762.3
		Expenses :	0.0
		Total :	762.3
Total Project:	3293161676 HW Torch Lake/Museum Property		9,039.8

			AMEC FW		M	onthly Proje	ect Financial Summ	ary- through Sep	tember 23, 20	16				% Based				
	Honeywell	Honeywell	Proj	Honeywell			AMEC FW FW		Spent Last)	Remaining	on Actual				
Honeywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget	Month	S	pent to Date		Budget	Spent		ETC	EAC	W/AN
HW Torch Lake/																		
Museum Property	Geadelmann	37156	McGowan	4500180294	9/23/16	1100	3293161676 \$	40,752.00	\$ 5,868.95		39,475.07	\$	1,275.93	95.9%	\$	1,276.93 \$	40,752.03	5 -
						2100	\$	88,599.00	\$ 13,920.60	5	13,920.60	\$	74,678.40	15.7%	\$	74,678.40	88,599.00	D \$ -
						9400	\$	14,058.00	\$ 1,902.8	5 5	4,986.08	\$	9,071.92	35.5%	\$	9,071.92 \$	14,058.00	D \$ -
							\$	143,409.00	\$ 21,692.44	\$	58,381.75	\$	85,027.25	40.7%	\$	85,027.25 \$	143,409.00	D\$ -
HW Torch Lake/																		-
Museum Property	Geadelmann	37156	McGowan	4500180294	9/23/2016		3293161676 \$	143.409.00	\$ 21,692.44	1 5	58,381.75	5	85,027.25	40.7%	. 5	85,027.25	143/409 0	0 5 -



Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04408699
1985 Douglas Drive N	Invoice Date: 09/27/2016
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
	Due Date: 01/25/2017
Attention: Charles Geadelmann	Terms: Net 120 Days
Re: HW Torch Lake/Museum Property	

For Professional Services Rendered: 08/20/2016 to 09/23/2016

Involce Summary Totals

Property

Phase : 1100 Identification/Site History		5,868.99	
Phase: 2100 Remedial Investigation	1	3,920.60	
Phase : 9400 Incentive Fee		1,902.85	
TOTAL PHASE SUMMARY	2	1,692.44	
Amount Due this Invoice	2	1,692.44	
Project Summary			
	Authorized	Total Billed	Remaining
Phase	Budget	To Date	Budget
		00 100 00	4 070 00

Phase: 1100 Identification/Site History	40,752,00	39,475.07	1,276.93
Phase: 2100 Remedial Investigation	88,599.00	13,920.60	74,678.40
Phase: 9400 Incentive Fee	14,058.00	4,986.08	9,071.92
Total : 3293161676 HW Torch Lake/Museum	143,409.00	58,381.75	85,027.25

Outstanding Invoices for This Project							
Number	Date	Amount	Balance				
J04408094	07/02/2016	2,377.55	2,377.55				
J04408308	07/29/2016	6,295.74	6,295.74				
J04408374	08/20/2016	9,039.81	9,039.81				
J04408699	09/27/2016	21,692.44	21,692.44				

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael.j.mcqowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>



Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property		Invoice Date : Invoice # :	09/27/2016 J04408699
Phase : 1100 Identification/Site History			
Fees			
Activity / Employee Name	Hours	Rate	Amoun
NA&NC - Senior Project			
Bondy,Garret E	0.5	200.79	100.40
Total : Senior Project	0.5	_	100.40
NA&NC - Senior Principal			
Caryl, Joseph W	3.0	169.77	509.32
Caryl, Joseph W	2.0	169.77	339.55
Total : Senior Principal	5.0	_	848.87
NA&NC - Senior			
McGowan, Michael J	32.0	127.21	4,070.72
Total : Senior	32.0	_	4,070.72
NA&NC - Senior			
Kotimko,Keith B	2.0	121.97	243.93
Total ; Senior	2.0		243.93
NA&NC - Project			
Cunningham,Kurt L	3.5	92 08	322.28
Total : Project	3.5		322.28
A&NC - Assigned & Not Co-Located			
Whitcomb,Julle	1.0	57.06	57,06
Total : Assigned & Not Co-Located	1.0		57.06
Total Fees	44.0		5,643.20
Other			Amoun
ODC Fee			225.73
Other Subtotal			225.73
Total Phase : 1100 Identification/Site History		Fees :	5,868.99
		Expenses :	0.00
		Total :	5,868.99
Phase : 2100 Remedial Investigation			
Fees			
Activity / Employee Name	Hours	Rate	Amoun
NA&NC - Senior Project			
Bondy,Garret E	1.5	200.79	301.19
Total : Senior Project	t.5	—	301.19
NA&NC - Senior			
McGowan, Michael J	57.0	127.21	7,250.9
Total : Senior	57.0		7,250.9
NA&NC - Project			
Cunningham,Kurl L	26.0	92.08	2,394.1

28.0

Total : Project

2,578.28

Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property		invoice Date : invoice # :	09/27/2016 J04408699
Phase : 2100 Remedial investigation			
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Technical Professional 1			
Gibney,Bonnie M	53.0	58.87	3,119.98
Total : Technical Professional 1	53.0	-	3,119.98
NA&NC - Staff I			
Havens,Kaitlyn P	2.5	53.93	134.82
Total : Staff I	2.5	-	134.82
Total Fees	142.0		13,385.19
Other		_	Amount
ODC Fee			535.41
Other Subtotal			535.41
Total Phase : 2100 Remedial Investigation		Fees :	13,920.60
		Expenses :	0.00
		Total :	13,920.60
Phase : 9400 Incentive Fee			
Other		_	Amount
Fee			1,902.85
Other Subtotal			1,902.85
Total Phase : 9400 Incentive Fee		Fees :	1,902.85
		Expenses :	0.00

3293161676 - HW Torch Lake/Museum Property

21,692.44

1,902.85

Total :

			AMEC FW			Monthly Proj	ect Financial Summ	nary- through Oc	ctob	ver 21, 2016					% Based				
	Honeywell	Honeywell	Proj	Honeywell		1. S. M. M.	AMEC FW FW		S	pent Last				Remaining	om Actual	1000			
Honeywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget	- 1	Month	S	pent to Date		Budget	Spent		ETC	EAC	W/AR
HW Torch Lake/	175. TONS				1.1.1.1.1.1.1.1		A 100 100 100					1000	0					1.000	
Museum Property	Geadelmann	37156	McGowan	4500180294	10/21/16	1100	3293161676 \$	40,752.00	\$	1,080.74	\$	40,555.81	\$	196.19	99.5%	\$	195.19	\$ 40,752.00	\$ -
						2100	\$	88,599.00	\$	36,589.73	\$	50,510.33	\$	38,088.67	\$7.0%	\$	38,088.67	\$ 88,599.00	\$ -
						9400	\$	14,058.00	\$	3,408.11	\$	8,394.19	\$	5,663.81	59.7%	\$	5,663.81	\$ 14,058.00	\$ -
							\$	143,409.00	\$	41,078.58	\$	99,460.33	\$	43,948.67	69.4%	\$	43,948.67	\$ 143,409.00	\$.
HW Torch Lake/											-				-		There are	 abolition of	
Museum Property	Gezdelmann	37156	McGowan	4500180294	10/21/2016		3293161676 \$	143,409.00	\$	41,078.58	5	59,460.33	\$	43,948.67	69.43	65	43 948/67	\$ 143 409 00	\$.



Invoice

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04408865
1985 Douglas Drive N	Invoice Date: 10/23/2016
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
All II Oberles Osedeleses	Due Date: 02/20/2017
Attention: Charles Geadelmann	Terms: Net 120 Days
Re HW Torch Lake/Museum Property	

143,409.00

For Professional Services Rendered: 09/24/2016 to 10/21/2016

Invoice Summary Totals

Phase : 1100 Identification/Site History	1,080.74
Phase : 2100 Remedial Investigation	36,589.73
Phase : 9400 Incentive Fee	3,408.11
TOTAL PHASE SUMMARY	41,078.58
Amount Due this Invoice	41,078.58
= Project Summary	

Phase	Authorized Budget	Total Billed To Date
Phase: 1100 Identification/Site History	40,752.00	40,555.81
Phase: 2100 Remedial Investigation	88,599.00	50,510.33
Phase: 9400 Incentive Fee	14,058.00	8,394.19

Total : 3293161676 -- HW Torch Lake/Museum Property

Outstanding Invoices for This Project						
Number	Date	Amount	Balance			
J04408308	07/29/2016	6,295.74	6,295.74			
J04408374	08/20/2016	9,039.81	9,039.81			
J04408699	09/27/2016	21,692.44	21,692.44			
J04408865	10/23/2016	41,078.58	41,078.58			

Should the remit address or bank account details on this involce not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Remaining Budget

196.19

38.088.67

5,663.81

43,948.67

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated)

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael.j.mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

U.S. Federal Tax ID # 91-1641772

99,460.33

roject Name: 3293161676 roject Number: HW Torch Lake/Museum Property			Invoice Date :	10/23/2016 J04408865
hase : 1100 Identification/Site History				
Fees				
Activity / Employee Name	Hours		Rate	Amoun
A&NC - Assigned & Not Co-Located				
Whitcomb, Julie	1.0		57.06	57.06
Total : Assigned & Not Co-Located	1.0			57.00
Total Fees	1.0			57.00
Reimbursable Expenses				
Vendor Name		Cost	Multiplier	Amoun
Transportation				
McGowan, Michael J		644.82	1.000	644.82
Total : Transportation		644.82		644.82
Other Travel				
McGowan, Michael J		57.39	1.000	57.39
Total : Other Travel		57.39		57.39
Auto/Mileage		53		
McGowan, Michael J		33.48	1.000	33.4
Total : Auto/Mileage Lodging		33.48		33.4
McGowan,Michael J		220.50	1.000	220.5
Total : Lodging		220.50	_	220.5
Meals (Including Tips) McGowan,Michael J		65.21	1.000	65.2
		65.21		65.2
Total : Meals (including Tips)		00.21		
Total Reimbursable Expenses				1,021.4
Total Expenses				1,021.4
ther			-	Amoun
DC Fee				2.2
Other Subtotal				2.2
otal Phase : 1100 Identification/Site History			Fees :	59.3
-			Expenses :	1,021.40
			Total :	1,080.74
hase : 2100 Remedial Investigation				
Fees				
Activity / Employee Name	Hours		Rate	Amour
NA&NC - Senior Project				
Bondy, Garret E	5.5		200.79	1,104.3
Total : Senior Project	5.5		_	1,104.3
NA&NC - Health/Safety	0.0			1,104.0
	2.0		182 20	364.4
Mazur, John F	2.0		IUL LU	

roject Name: 3293161676 roject Number: HW Torch Lake/Museum Property		Invoice Date : Invoice # :	10/23/2016 J04408865
hase: 2100 Remedial Investigation	· · · · ·		
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Senior Principal			
Caryl,Joseph W	2.5	169.77	424.44
Caryl, Joseph W	2.5	169 77	424.44
Total : Senior Principal	5.0		848.88
NA&NC - Health/Safety			
Sundquist,Cynthia E	2.0	138.65	277.30
Total : Health/Safety	2.0		277.30
NA&NC - Senior			
McGowan, Michael J	90.5	127.21	11,512.46
Total : Senior	90.5		11,512.46
NA&NC - Project			11,012.40
Kempf,Carrie L	15.0	94.83	1,422 42
Total : Project	15.0	-	1,422.42
NA&NC - Project	15.0		1,462.92
Cunningham,Kurl L	99.5	92.08	9,162.06
Cunningham,Kurt L	11.5	92.08	1,058.92
Total : Project	111.0		
NA&NC - Staff II	111.0		10,220.98
	2.5	84.09	210,23
Saigh,Douglas R		04.05	
Total : Staff II	2.5		210.23
NA&NC - Admin	0.5	74.50	
Denson,Paulette T	0.5	71.52	
Total : Admin	0.5		35.76
NA&NC - Staff II			
Franklin, Peggy E	0.8	70.36	56.29
Total : Staff II	0.8		56.29
NA&NC - Admin			
Osenroth, Sarah K	8.2	68.07	558.14
Total : Admin	8.2		558.14
NA&NC - Admin I			
Rauser, Amy	2.1	63.98	134.37
Total : Admin I	2.1		134.37
NA&NC - Technical Professional 1			
Gibney,Bonnie M	113.0	58.87	6,651.99
Gibney, Bonnie M	2.5	58.87	147 17
Total : Technical Professional 1	115.5		6,799.16
NA&NC - Admin			
Kestner,Paige M	0.5	54.41	27.20
Total : Admin	0.5		27.20
NA&NC - Staff 1			
Havens,Kaitlyn P	7.4	53.93	399.07
Total : Staff I	7.4		399.07

Project Name: 3293161676 Project Number: HW Torch Lal	e/Museum Property			Invoice Date : Invoice # :	10/23/2016 J04408865
Phase : 2100 Remedial Inves	tigation				
Fees					
Activity / Employee Name		Hours		Rate	Amoun
NA&NC - Staff i					
Weeks,Adam R		1.0		53.00	53.00
Total : Staff I		1.0			53.00
	Total Fees	369.5			34,024.03
Reimbursable Expenses					
Vendor Name	_		Cost	Multiplier	Amoun
Transportation Cunningham,Kurt L			869.06	1.000	869,06
Total : Transportation			869.06	_	869.00
Other Travel					
Cunningham,Kurt L			13.00	1.000	13.00
Total : Other Travel			13.00		13.0
Lodging Cunningham,Kurt L			81.75	1_000	81.7
Total : Lodging			81.75	_	81.7
Meals (including Tips)					
Cunningham,Kurt L			74.19	1.000	74.19
Total : Meals (Including	g Tips)		74.19		74.1
Analytical Lab					
Quantem Laboratories LLC			158.80	1.050	166.74
Total : Analytical Lab			158.80		166.7
	Total Reimbursable Expenses				1,204.7
	Total Expenses				1,204.7
Other				<u>.</u>	Amoun
DDC Fee					1,360.9
Other Subtotal					1,360.9
otal Phase : 2100 Remedial	Investigation			Fees :	36,384.9
				Expenses :	1,204.7
				Total :	36,589.73

Phase : 9400 -- Incentive Fee

Other			Amount
Fee			3,408.11
Other Subtotal		·	3,408.11
Total Phase : 9400 In	centive Fee	Fees :	3,408.11
		Expenses :	0.00
		Total :	3,408.11





Invoice Number: 161 Invoice Date: Oct Page: 1

Oct 21, 2016 1

2033 Heritage Park Drive Oklahoma City, OK 73120

Bill To:	Sh	ip to:
AMEC Novi-MI 46850 Magellan Dr STE 190 Novi, MI 48377	46	AEC Novi-MI 850 Magellan Dr STE 190 Ivvi, MI 48377
	33	293161676.2100.01
Customer 10	Customer PO	Payment Terms

	CHANDINE ID	CODICITES F C	L CALINDIAE INTAINE	
-	B894	Project # 3293161676	Net 30 Days	
	Sales Rep D	Shipping Haliod	Ship Date - Dire Date	
			11/20/16	

Quantity		Description	e9	Unit Price	Amount
	PCM Cassettes			0.55	110.0
1.00	Shipping	.e		39.59	39.5
	(012.90	4340			
		-		i.	
		Subtotal			149.
<i>12</i>		Sales Tax			9.:
		Total Invoice Amount			158.6
heck/Credit Merr	o No:	Payment/Credit Applied			
1. 1		TOTAL	- 1 k		158.4

1.5% per month on past due amounts

÷

	Honeywell	Henning	AMEC FW Proj	Honeywell			AMEC FW FW						Description	% Based				
Income all Designat Manage		Honeywell			In The Date			1.2.2		pent Last		and the second	Remaining	on Actual				-
HW Torch Lake/	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget	-	Month		ipent to Date	Budget	Spent	_	ETC	EAC	WAR
Museum Property	Geadelmann	37156	McGowan	4500180294	11/25/16	1100	3293161676	40 753 00	2	107.07			40.54				-	
woseum Property	Geadeimann	37130	MLGOWAN	4300180234	11/25/10	2100	2532101010			147.63 13,162.91		40,703.44			5	48.55		
						9400		88,599.00				63,673.24	24,925.76		2	24,925.75		
						9400		14,058.00		2,202.82		10,597.01	3,460.99		2	3,460.99		
							0	143,409.00	\$	15,513.36	\$	114,973.69	28,435.31	80.2%	\$	28,435.31	\$ 143,409.00	3 -
HW Torch Lake/			-								-				-			
Museum Property	Geadelmann	37156	McGowan	4500180294	11/25/2016		3293161676	143,409.00		15,513.36		114,973.69	28,435.33	80.2%	*	28,435 31	5 143,409.00	
									-		-					00,00000		



Invoice

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice # : J04409055
1985 Douglas Drive N	Invoice Date : 12/01/2016
MN10-132B	Project : 3293161676
Golden Valley, MN 55422	Contract Number: PO#4500180294 #37156
Aller the Charles Credebrane	Due Date: 03/31/2017
Attention: Charles Geadelmann	Terms : Net 120 Days
Re: HW Torch Lake/Museum Property	

For Professional Services Rendered: 10/22/2016 to 11/25/2016

Invoice Summary Totals

Phase : 1100 Identification/Site History	147.63
Phase : 2100 Remedial Investigation	13,162.91
Phase: 9400 Incentive Fee	2,202.82
TOTAL PHASE SUMMARY	15,513.36
Amount Due this Invoice	15,513.36
Project Summary	

Phase	Authorized Budget	Total Billed To Date	Remaining Budget
Phase: 1100 Identification/Site History	40,752.00	40,703.44	48.56
Phase: 2100 Remedial Investigation	88,599.00	63,673.24	24,925.76
Phase: 9400 Incentive Fee	14,058.00	10,597.01	3,460.99
Total : 3293161676 HW Torch Lake/Museum Property	143,409,00	114,973.69	28,435.31

Outstanding Invoices for This Project								
Number	Date	Amount	Balance					
J04408374	08/20/2016	9,039.81	9,039.81					
J04408699	09/27/2016	21,692.44	21,692.44					
J04408865	10/23/2016	41,078.58	41,078.58					
J04409055	12/01/2016	15,513.36	15,513,36					

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael_t.mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

U.S. Federal Tax ID # 91-1641772



Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property		Invoice Date : Invoice # :	12/01/2016 J04409055
Phase : 1100 Identification/Site History			
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Senior Principal			
Caryl, Joseph W	0.5	169.77	84.89
Total : Senior Principal	0.5	-	84.89
A&NC - Assigned & Not Co-Located			
Whitcomb, Julie	1.0	57.06	57.06
Total : Assigned & Not Co-Located	1.0	_	57.06
Total Fees	1.5		141.95
Other			Amouni
ODC Fee			5.68
Other Subtotal			5.68
Total Phase : 1100 identification/Site History		Fees :	147.63
		Expenses :	0.00
		Total :	147.63
Phase : 2100 Remedial Investigation Fees Activity / Employee Name	Hours	Rate	Amouni
NA&NC - Senior Project			
Bondy,Garrel E	5.0	200.79	1,003.97
Total : Senior Project	5.0	-	1,003.97
NA&NC - Senior Principal			
Caryl, Joseph W	2.0	169.77	339.54
Total : Senior Principal	2.0		339.54
NA&NC - Senior			
McGowan, Michael J	35.5	127.21	4,515.95
Total : Senior	35.5		4,515.95
NA&NC - Project			
Cunningham,Kurt L	40.0	92.08	3,683.23
Cunningham,Kurt L	7.0	92.08	644.57
Total : Project	47.0		4,327.80
NA&NC - Senior Technician II			
Cunningham,Bruce D	0.3	79.56	23.87
Total : Senior Technician II	0.3		23.87
NA&NC - Admin			
Denson, Paulette T	0.5	71.52	35.76
Total : Admin	0.5		35.76
A&NC - Assigned & Not Co-Located			
Siewert,Erin D	0.5	70.96	35.48
Total : Assigned & Not Co-Located	0.5		35.48



Project Name: 3293161676 Project Number: HW Torch Lake/Museum Property			Invoice Date : Invoice # :	12/01/2016 J04409055
Phase : 2100 Remedial Investigation				
Fees				
Activity / Employee Name	Hours		Rate	Amount
NA&NC - Staff II				
Franklin, Peggy E	1,1		70.36	77.40
Total : Staff II	1.1			77.40
NA&NC - Admin				
Osenroth,Sarah K	3.0		68.07	204.20
Total : Admin	3.0			204.20
NA&NC - Technical Professional 1				
Gibney,Bonnie M	5.0		58.87	294.34
Total : Technical Professional 1 NA&NC - Admin	5.0			294.34
Kestner, Paige M	0.5		54.41	27.20
Totai : Admin	0.5			27.20
NA&NC - Staff I				
Weeks,Adam R	0.6		53.00	31.80
Total : Staff I	0.6			31.80
Total Fees	101.0			10,917.31
Reimbursable Expenses Vendor Name		Cost Mu	ultiplier	Amount
Transportation	-			
McGowan, Michael J	1,3	23.62	1.000	1,323.62
Total : Transportation	1,3	23.62		1,323.62
Other Travel		7.50	1.000	3.50
Cunningham,Kurl L McGowan,Michael J		7.50 71,47	1.000 1.000	7.50 71.47
Total : Other Travel		78.97		78.97
Auto/Mileage McGowan,Michael J		33.48	1.000	33.48
Total : Auto/Mileage		33.48		33.48
Lodging				
McGowan,Michael J	2	68.40	1.000	268.40
Total : Lodging	2	68.40		268.40
Meals (Including Tips) McGowan,Michael J	-	45.13	1.000	45.13
Total : Meals (including Tips)		45.13		45.13
Other Cost		50.04	1.000	60 04
FedEx - 332043838		59.31	1 000	59.31
Total : Other Cost		59.31		59.31
Total Reimbursable Expenses				1,808.91
Total Expenses				1,808.91

Project Name : 3293161676 Project Number : HW Torch Lal	ke/Museum Property				Invoice Date : Invoice # :	12/01/2016 J04409055
Other						Amount
ODC Fee			-			436.69
Other Subtotal						436.69
Total Phase : 2100 Remedial	Investigation				Fees :	11,354.00
					Expenses :	1,808.91
					Total :	13,162.91
Unit Pricing Expenses						
	Doc Nbr	Doc Date	Qty	UOM	Rale	Amoun
Incentive Fee True Up						
2/0 fo	J04112916	11/25/2016	1,096.89 Dollar(s)		1.00	1,096.89
2/3 gtr fee reconcile			· · · · · · · · · · · · · · · · · · ·		_	
Total : Incentive Fee T	rue Up		1,096.89			1,096.89
	Total Unit Pricing E	xpenses				1,096.89
	Total Expenses					1,096.89
Other						Amoun
Fee						1,105.93
Other Subtotal						1,105.93
Total Phase : 9400 Incentive	Fee				Fees :	1,105.93
					Expenses :	1,096.89
					Totat :	2,202.82

Total Project:

3293161676 -- HW Torch Lake/Museum Property

15,513.36

	Honeywell	Honeywell	Proj	Honeywell			AMEC FW FW		Spent Last			Remaining	% Based on Actual			
Ioneywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget	Month	Spent to D	ate	Budget	Spent	ETC	EAC	WAR
HWCGS Museum Prop-			10 11 11												 1.1.1.1.1	
ACM Removal	Geadelmann	37156	McGowan	450019590	11/25/16	510001	3293161707 \$	8,626.00	\$ 5,462.69	\$ 5,40	2.69	\$ 3,163.31	63.3%	\$ 3,163.31	\$ 8,626.00	5 -
						520001	\$	13,400.00	\$ 	\$	- 1	\$ 13,400.00	0.0%	\$ 13,400.00	\$ 13,400.00	\$ -
						571001	\$	316,349.00	\$ 52,546.04	\$ 52,54	6.04	\$ 263,802.96	16.6%	\$ 263,802.95	\$ 315,349.00	\$ -
							\$	338,375.00	\$ 58,008.73	\$ 58,00	6.73	\$ 280,366.27	17.1%	\$ 280,366.27	\$ 338,375.00	5 -
WCGS Museum Prop-	1.1.1	-							 -					 	 	
ACM Removal	Gesdelmenn	37156	McGowan	450019590	11/25/2016		3293151707 \$	338,375.00	\$ 58,008.73	\$ 58,00	8.73	\$ 280,366.27	17,1%	\$ 280,365.27	\$ 338375,00	5 -

amec foster wheeler 🚧



Invoice

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice #: J04409058
1985 Douglas Drive N	Invoice Date : 12/01/2016
MN10-132B	Project : 3293161707
Golden Valley, MN 55422	Contract Number : PO#4500195490 #37156
Ny II Oberlee Condelations	Due Date: 03/31/2017
Attention: Charles Geadelmann	Terms: Net 120 Days
Re HWCGS Museum Prop-ACM Removal	

338,375.00

For Professional Services Rendered: 10/30/2016 to 11/30/2016

Invoice Summary Totals

Phase : 510001 Project Management		5,462.69	
Phase : 571001 RA (Soil Removal)	5	2,546.04	
TOTAL PHASE SUMMARY	5	8,008.73	
Amount Due this Invoice	5		
Project Summary			
Phase	Authorized Budget	Total Billed To Date	Remaining Budget
Phase: 510001 Project Management	8,626.00	5,462.69	3,163.31
Phase: 520001 – Final Report	13,400.00	0.00	13,400.00
Phase: 571001 - RA (Soil Removal)	316,349.00	52,546.04	263,802.96

Total : 3293161707 -- HWCGS Museum Prop-ACM Removal

	Outstanding Invoices	s for This Project		
Number	Date	Amount	Balance	
J04409058	12/01/2016	58,008.73	58,008.73	

Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

280,366.27

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote invoice number with remittance. Direct all billing inquiries to <u>michael i mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

U.S. Federal Tax ID # 91-1641772

58,008.73



Project Name: 3293161707 Project Number: HWCGS Mus	eum Prop-ACM Removal			invoice Date : Invoice # :	12/01/2016 J04409058
Phase : 510001 Project Man	agement				
Fees					
Activity / Employee Name		Hours		Rate	Amoun
NA&NC - Senior					
McGowan, Michael J		46.0		110.05	5,062.13
Total : Senior		46.0		_	5,062.13
	Total Fees	46.0			5,062.1
Reimbursable Expenses					
Vendor Name			Cost	Multiplier	Amoun
Other Cost FedEx - 332043838			20.90	1.000	20.90
Total : Other Cost			20.90		20.90
	Total Reimbursable Expenses				20.9
	Total Expenses				20.9
Other					Amour
ODC Fee		_			379.6
Other Subtotal				·	379.6
Total Phase : 510001 - Projec	t Management			Fees :	5,441.7
				Expenses :	20.9
				Total :	5,462.69
Phase : 571001 RA (Soil Re	moval)				
Activity / Employee Name		Hours		Rate	Amour
NA&NC - Senior Project					
Bondy,Garret E		1.0		173.70	173.70
Total : Senior Project		1.0			173.7
NA&NC - Senior Principal					
Caryl, Joseph W		25.5		146.87	3,745.0
Caryl, Joseph W		0.5		146.87	73.4
Total : Senior Princip	al	26.0			3,818.5
NA&NC - Senior				440.00	0.001.0
McGowan, Michael J		26.0		110.05	2,861.2

26.0

174.0

Total : Senior

Total : Project

Total : Staff II

NA&NC - Project

Cunningham,Kurt L

Cunningham,Kurt L

NA&NC - Staff II

Saigh,Douglas R

Saigh, Douglas R

79.66

2,861.20

13,860.36

Project Name : 3293161707 Project Number : HWCGS Museum Prop-ACM Removal		Invoice Date : Invoice # :	12/01/2016 J04409058
Phase : 571001 RA (Soli Removal)			
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Admin I			
Rauser, Amy	0.2	55.35	11.07
Total : Admin I	0.2		11.07
NA&NC - Technician			
McKeever, Randall E	124.0	49.53	6,141.72
McKeever, Randall E	36.0	49.53	1,783.08
Total : Technician	160.0		7,924.80
NA&NC - Staff I			
Weeks,Adam R	45.5	45.85	2,085.95
Weeks,Adam R	31.5	45.85	1,444.12
Total : Staff I	77.0		3,530.07
iotal : Staff i	77.0		3,530,01
Total Fees	595.2		42,117.21
Reimbursable Expenses			
Vendor Name	Cost	Multiplier	Amount
Transportation	_	1	
Cunningham, Kurl L	1,458.14	1.000	1,458.14
Total : Transportation	1,458.14		1,458.14
Other Travel	-		
Cunningham,Kurt L	223.81	1.000	223.81
McKeever.Randall E	23.74	1.000	23.74
Total : Other Travel	247.55		247.55
Auto/Mileage			
Weeks,Adam R	513.00	1.000	513.00
Total : Auto/Mileage	513.00		513.00
Lodging			
Cunningham,Kurt L	2,643.00	1.000	2,643.00
Weeks,Adam R	939.40	1.000	939.40
Total : Lodging	3,582.40		3,582.40
Meals (Including Tips)			
Cunningham,Kurt L	652.59	1.000	652.59
McKeever, Randall E	417.15	1.000 1.000	417.15 131.06
Weeks,Adam R	131.06	1.000	
Total : Meals (Including Tips)	1,200.80		1,200.80
Supplies & Equipment	195.29	1.000	195.29
Cunningham,Kurt L McKeever,Randall E	8.58	1.000	8.58
Total : Supplies & Equipment	203.87		203.87
Equipment Cunningham,Kurt L	10.57	1.000	10.57
Total : Equipment	10.57		10.57
Other Cost Cunningham,Kurt L	49.53	1.000	49.53
Weeks,Adam R	4.18	1.000	4.18
	63.71		53.71
Total : Other Cost	03./1		00.71

Project Name : 3293161707 Project Number : HWCGS Museum Prop-ACM Removal	Invoice Date: Invoice #:	12/01/2016 J04409058
Phase : 571001 RA (Soil Removal)		
Total Reimbursable Expenses		7,270.04
Total Expenses		7,270.04
Other		Amount
ODC Fee		3,158.79
Other Subtotal		3,158.79
Total Phase: 571001 RA (Soil Removal)	Fees :	45,276.00
	Expenses :	7,270.04
	Total :	52,546.04

Total Project:

3293161707 -- HWCGS Museum Prop-ACM Removal

58,008.73

	Monthly Project Financial Summary- through December 9, 2016																
			AMEC FW										% Based				
	Honeywell	Honeywell	Proj	Honeywell			AMEC FW FW		Spent Last			Remaining	on Actual				
Honeywell Project Name	RM	Project #	Manager	PO#	Inv Thru Date	Cost Code	Project #	Budget	Month	S	pent to Date	Budget	Spent		ETC	EAC	VAR
HWCGS Museum Prop-																	
ACM Removal	Geadelmann	37156	McGowan	450019590	12/9/16	510001	3293161707 \$	8,626.00	\$ 887.2	25 \$	6,349.94 \$	2,276.06	73.6%	\$	2,276.06 \$	8,626.00	\$-
						520001	\$	13,400.00	\$-	\$	- \$	13,400.00	0.0%	\$	13,400.00 \$	13,400.00	\$ -
						571001	\$	316,349.00	\$ 178,663.3	33 \$	231,209.37 \$	85,139.63	73.1%	\$	85,139.63 \$	316,349.00	\$ -
							\$	338,375.00	\$ 179,550.5	58 \$	237,559.31 \$	100,815.69	70.2%	\$	100,815.69 \$	338,375.00	\$ -
HWCGS Museum Prop-	(nel a Barre		1000	and the second					1.1 × 1					100		1.00	200 V S
ACM Removal	Geadelmann	37156	McGowan	450019590	12/9/2016		3293161707 \$	338,375.00	\$ 179,550.	58 [°] S	2 37,559.31 \$	100,815.69	70.2%	65	100,815.69 S	338,375.00	\$ -



Invoice

Remittance Address: Amec Foster Wheeler Environment & Infrastructure, Inc. 24376 Network Place Chicago, IL 60673-1376

Honeywell	Invoice #: J04409118
1985 Douglas Drive N	Invoice Date : 12/13/2016
MN10-132B	Project: 3293161707
Golden Valley, MN 55422	Contract Number: PO#4500195490 #37156
tille d'auto Condelmont	Due Date: 04/12/2017
Attention: Charles Geadelmann	Terms: Net 120 Days
Re HWCGS Museum Prop-ACM Removal	

For Professional Services Rendered: 12/01/2016 to 12/09/2016

Invoice Summary Totals

Phase : 510001 Project Management		887.25	
Phase : 571001 RA (Soil Removal)	17	8,663.33	
TOTAL PHASE SUMMARY	17	9,550.58	
Amount Due this Involce	179,550.58		
Project Summary			
Phase	Authorized Budget	Total Billed To Date	Remaining Budget

			-
Phase: 510001 Project Management	8,626.00	6,349.94	2,276.06
Phase: 520001 Final Report	13,400.00	0.00	13,400.00
Phase: 571001 RA (Soil Removal)	316,349.00	231,209.37	85,139.63
Total : 3293161707 - HWCGS Museum	338,375.00	237,559.31	100,815.69

Prop-ACM Removal

	<u> </u>		
Number	Date	Amount	Balance
J04409058	12/01/2016	58,008.73	58,008.73
J04409118	12/13/2016	179,550.58	179,550.58

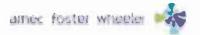
Should the remit address or bank account details on this invoice not match those held in your records, and/or you have been notified by our company through phone, email, or letter to change any of our details, please authenticate any change with our Treasury Supervisor at 770-360-0508.

Project Manager : McGowan, Michael J

Terms: Net thirty (30) days (unless otherwise negotiated).

Please quote involce number with remittance. Direct all billing inquiries to <u>michael i mcgowan@amecfw.com</u>. Please visit our website at <u>http://www.amecfw.com</u>

U.S. Federal Tax ID # 91-1641772



Project Name: 3293161707 Project Number: HWCGS Museum Prop-ACM Removal		Invoice Date : Invoice # :	12/13/2016 J04409118
Phase : 510001 - Project Management			
Fees			
Activity / Employee Name	Hours	Rate	Amount
NA&NC - Senior	<u> </u>		
McGowan,Michael J	7.5	110.05	825.35
Total : Senior	7.5		825.38
Total Fees	7.5		825.35
Other		_	Amoun
DDC Fee		_	61.90
Other Subtotal			61.90
Fotal Phase : 510001 Project Management		Fees :	887.25
		Expenses :	0.00
		Total :	887.25
Phase : 571001 RA (Soll Removal)			
Fees			
Activity / Employee Name	Hours	Rate	Amoun
NA&NC - Senior Principal			
Caryl,Joseph W	1.5	146.87	220.30
Total : Senior Principal	1.5		220.30
NA&NC - Senior			
McGowan, Michael J	12.5	110.05	1,375.59
Total : Senior	12.5		1,375.59
NA&NC - Project			
Cunningham,Kurt L	40.0	79.66	3,186.30
Cunningham,Kurt L	56.0	79.66	4,460.81
Total : Project	96.0	-	7,647.1
NA&NC - Technician			
McKeever, Randall E	31.0	49.53	1,535.43
McKeever,Randall E	3.0	49.53	148.59
Total : Technician	34.0	_	1,684.02
Total Fees	144.0		10,927.0
Reimbursable Expenses			
Vendor Name	C	ost Multiplier	Amoun
Transportation Caryl,Joseph W	733.	46 1.000	733.4
Caryl, Joseph W McKeever, Randall E		00 1.000	8.0
Saigh,Douglas R	772.		772.6
Total : Transportation	1,514		1,514.1
Other Travel	- <u>-</u>		
Caryl,Joseph W	97.	51 1.000	97.5
McKeever, Randall E	151.		151.5
Saigh,Douglas R	166.	50 1.000	166.5

Project Name: 3293161707 Project Number: HWCGS Museum Prop-ACM Removal			12/13/2016 J04409118
Phase: 571001 RA (Soil Removal)			, <u> </u>
Reimbursable Expenses			
Vendor Name	Cost	Multiplier	Amoun
Total : Other Travel	415.59		415.59
Lodging			
Caryl, Joseph W	170.11	1.000	170.11
McKeever,Randall E	2,532.70	1.000	2,532.70
Saigh,Douglas R	785.76	1.000	785.76
Total : Lodging	3,488.57		3,488.57
Meals (Including Tips)			
Caryl,Joseph W	147.11	1.000	. 147.11
McKeever,Randall E	388.79	1.000	388.79
Saigh,Douglas R	277.58	1.000	277.58
Total : Meals (Including Tips)	813.48		813.48
Subcontractor			
Terra Contracting Services	152,896.24	1.050	160,541.05
Total : Subcontractor	152,896.24		160,541.05
Supplies & Equipment			
McKeever,Randall E	10.35	1.000	10.35
Total : Supplies & Equipment	10.35	Harris and	10.35
Other Cost			
FedEx - 332043838	133.59	1.000	133.59
Total : Other Cost	133.59		133.59
Total Reimbursable Expenses		,	166,916.78
Total Expenses			166,916.78
Other			Amoun
ODC Fee	-		819.53
Other Subtotal			819.53
Total Phase: 571001 RA (Soil Removal)		Fees :	11,746.55
· · · · · · · · · · · · · · · · · · ·		Expenses :	166,916.78
		Total :	178,663.33

Total Project:

3293161707 -- HWCGS Museum Prop-ACM Removal

179,550.58

Terracontracting.net

5100 W. MICHIGAN AVE KALAMAZOO, MI, 49006 ₽ 269.375.9595 | **#** 269.375.2830

	oster Wheeler Enviromental n: Michael McGowan			invoice #	25873
46850 Mo	agellan Drive Ste 190 chigan 48377			Date	12/9/2016
Terra Col 62962 Co	Address: ntracting Services ollections Center Drive o IL, 60693-0629 DESCRIPTION	QUANTITY	UOM	Project # 32931 RATE	61676 AMOUNTS
	Mobilization/Demobilization	1.00	LS	\$25,131.14	\$25,131.14
	Clean-Up Stamp Mill Foundations	14.00	EA	\$ 2,379.67	\$33,315.38
	Excavate Existing Soils 6" Below Grade	111.00	CY	\$ 433.37	\$48,104.07
	ACM Mastic Removal	9.00	EA	\$ 2,246.61	\$20,219.49
	Clean-Up ACM on Top of Ground	1.00	LS	\$ 4,991.67	\$ 4,991.6 7
	Install 1/4" Steel Plates	14.00	EA	\$ 474.51	\$ 6,643.14
	Backfill Trenches	0.50	LS	\$14,782.70	\$ 7,391.35
	Saturday Overtime Work (Change Order 1)	1.00	LS	\$ 2,700.00	\$ 2,700.00
	Plates Over Tunnel (Change Order 2)	1.00	LS	\$ 4,400.00	\$ 4,400.00

JOB NUMBER: AS 161075

INVOICE TOTAL

\$ 152,896.24

INVOICES NOT PAID WITHIN 30 DAYS WILL BE CHARGED INTEREST AT THE RATE OF 1.5% PER MONTH ON THE UNPAID BALANCE OR AT THE HIGHEST LAWFUL RATE, WHICHEVER IS LESS.