



Ford Motor Company

Response Action Implementation Report

Baseball Fields - Feature 139

Twin Cities Assembly Plant (TCAP) St. Paul, Minnesota MPCA VIC Project Number VP23530 MPCA PBP Project Number PB3682

March 13, 2008

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I hereby certify that this plan, document, or report
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Response Action Implementation Report Baseball Fields – Feature 139

Twin Cities Assembly Plant St. Paul, Minnesota

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ARCADIS Table of Contents

1.	Property Location and Description							
2.	Previous Inve	estigation Results	2					
3.	Excavation Delineation Soil Sampling							
4.	Excavation							
5.	Summary		5					
6.	References		6					
Tal	oles							
	Table 1	Field Screening Headspace Summary and Surface Soil Sampling Laboratory Analysis Status						
	Table 2	Summary of Surface Soil Samples Results Collected in December 2007						
	Table 3	Summary of Confirmation Soil Samples Results						
	Table 4	Summary of Background Data						
Fig	ures							
	Figure 1	Site Location/Property Layout						
	Figure 2	Surface Soil Sample Locations						
	Figure 3	Soil Excavation and Confirmation Sampling Locations						
۸۰	nandiaas							
Αþ	pendices							

Α

В

С

Email Correspondences

Analytical Laboratory Reports

Non-Hazardous Waste Manifests

i

Response Action Implementation Report Baseball Fields – Feature 139

Twin Cities Assembly Plant St. Paul, Minnesota

On behalf of Ford Motor Company (Ford), ARCADIS has prepared this Response Action Implementation Report (RAIR) for a portion of the Ford Twin Cities Assembly Plant (TCAP) located at 966 South Mississippi River Boulevard in St. Paul, Ramsey County, Minnesota. This RAIR describes the soil removal activities conducted to address surface soils that were identified as containing arsenic concentrations above the standard background level in Minnesota in a small portion of the baseball field area (Feature 139) of the TCAP property. The activities were conducted in accordance with the document entitled "Soil Removal Work Plan Baseball Fields – Feature 139" (Work Plan). That document was submitted to the Minnesota Pollution Control Agency (MPCA) on January 3, 2008 and was approved by the MPCA on January 12, 2008.

1. Property Location and Description

The TCAP is located at 966 South Mississippi River Boulevard in St. Paul, Ramsey County, Minnesota at the approximate easting coordinate 484562.5 meters (m) and northing coordinate 4973822.5m. The TCAP is located in a mixed industrial, commercial-, and residential-use area on the eastern shore of the Mississippi River, along the east side of South Mississippi River Boulevard, south of Ford Parkway and west of South Cleveland Avenue in St. Paul, Minnesota (see Figure 1).

Response Action Implementation Report Baseball Fields – Feature 139

Twin Cities Assembly Plant St. Paul, Minnesota

2. Previous Investigation Results

During the previous soil investigation conducted at Feature 139 from July 2007 to September 2007, arsenic was detected in several surface soil samples above the applicable MPCA soil screening level (Tier 2 Soil Reference Value [SRV] for recreational land use). The Tier 2 Recreational SRV for arsenic (5 milligrams per kilogram [mg/kg]) was exceeded in five of the 39 surface soil samples collected at Feature 139. The maximum concentration of arsenic detected in the surface soil samples was 16.4 mg/kg, which was detected in Sample AGM-SS-001. A statistical analysis was completed to characterize the data set and to provide a basis for comparison to applicable statewide background data provided by the MPCA. Surface soil sample results for arsenic were shown to be consistent with and generally less than naturally occurring arsenic background concentrations in Minnesota. Although the site arsenic data appeared to be consistent with applicable background data, one sample result (16.4 mg/kg for Sample AGM-SS-001) appeared to be a statistical outlier and was above the arsenic standard background level in Minnesota of 15 mg/kg.

The results from a surface soil risk assessment conducted for Feature 139 indicate that the detected concentrations of arsenic in surface soils are acceptable for continued recreational use and do not present a concern (unacceptable risk or hazard) to users of the baseball fields. The previous investigation and risk assessment results were presented in the following ARCADIS report: Additional Soil Investigation and Surface Soil Risk Assessment Report – Baseball Fields – Feature 139, which was submitted to the MPCA on December 14, 2007.

Although the surface soil assessment for Feature 139 indicates that risks and hazards are acceptable for the current land use, Ford elected to implement precautionary mitigation measures for the surface soils proximal to surface soil Sample (AGM-SS-001. The mitigation measures involved removal of surface soils in this one defined area as described below.

Response Action Implementation Report Baseball Fields – Feature 139

Twin Cities Assembly Plant St. Paul, Minnesota

3. Excavation Delineation Soil Sampling

ARCADIS collected additional samples on December 20, 2007 to further delineate the area for soil removal around the location of Sample AGM-SS-001. Eight surface soil samples(see Figure 2) were collected from a depth of approximately 6-inches below ground surface as discussed during a telephone conversation on December 18, 2007 between Bryan Zinda of ARCADIS and Amy Hadiaris of the MPCA. The samples were collected in accordance with the June 18, 2007 Field Sampling Plan (FSP) that was developed for the TCAP. The samples were collected in four directions from Sample AGM-SS-001 at a distance of 10 feet and 20 feet. The samples were submitted to Test America North Canton, Ohio for laboratory analysis. Four surface soil samples (AGM-SS-40, AGM-SS-042, AGM-SS-044 and AGM-SS-046) from the distance of 10 feet were analyzed for arsenic. Four samples (AGM-SS-041, AGM-SS-043, AGM-SS-045 and AGM-SS-047) from the distance of 20 feet were placed on hold at the laboratory pending the analytical results of the samples analyzed.

The results of the four surface soil samples were consistent with background levels at the site and were below the maximum concentration of arsenic in the background data set of 15 mg/kg. Arsenic was detected in AGM-SS-040 (4.5 mg/kg), AGM-SS-042 (4.9 mg/kg), AGM-SS-044 (4.4 mg/kg) and AGM-SS-046 (4.3 mg/kg). Based on the results of these four samples the MPCA gave approval for the delineation of the area and the four samples placed on hold were disposed by the laboratory

A copy of the January 12, 2008 correspondence with the Amy Hadiaris of the MPCA is provided in Appendix A. Table 1 summarizes the field screening and laboratory status of the surface soil samples submitted for analysis. Table 2 summarizes surface soil analytical results. Copies of the laboratory analytical results are provided in Appendix B.

Response Action Implementation Report Baseball Fields – Feature 139

Twin Cities Assembly Plant St. Paul, Minnesota

4. Excavation

On January 22, 2008 ARCADIS supervised the excavation of soil by Stevens Drilling and Environmental Services of Maple Plain, Minnesota. The excavation was conducted in accordance with the MPCA approved Work Plan. A total of 28.56 tons of soil was removed during the activities.

Excavated soil was loaded directly into two roll-off containers and transported off-site and disposed by Waste Management at Spruce Ridge Landfill in Glencoe, Minnesota on January 24, 2008. Data from the previous soil investigation events demonstrated that all excavated soil could be managed as non-hazardous. Copies of the non-hazardous waste manifests are provided in Appendix C.

Two confirmation samples, A_E01_CS-001(20080122) and A_E01_CS-002 (20080122) were collected on January 22, 2008 from the floor of the excavation. The samples were analyzed for total arsenic by United States Environmental Protection Agency (USEPA) Method 6010. The approximate excavation area was 504 square feet with approximate dimensions of 22 feet by 22 feet by 12 inches.

Confirmation sample locations and the final excavation boundary are presented on Figure 3. Arsenic was detected in the confirmation samples at a concentration of 11.3 mg/kg at A_E01_CS-001 and 11.4 mg/kg at A_E01_CS-002, respectively. Both concentrations exceeded the Tier 1 Residential and Tier 2 Recreational SRVs of 5 mg/kg. The results however, were below the maximum concentration for arsenic in the background data set, confirming that soil containing the arsenic concentrations above the standard background level in Minnesota had been removed. Analytical results of the confirmation soil samples are summarized in Table 3, and the laboratory analytical results are provided in Appendix B. Background soil data for arsenic in Minnesota is summarized in Table 4.

Following confirmation sampling the excavation was backfilled in two lifts, with each lift being compacted into an approximately 6-inch thickness. The source of the backfill materials was Bursh Brothers Sand and Gravel located in Monticello, Minnesota. The first lift consisted of imported, clean fill material, and the second lift consisted of imported topsoil. Final grading will be completed following ground thawing in spring 2008. Following grading the surface will be restored to its previous condition.

Response Action Implementation Report Baseball Fields – Feature 139

Twin Cities Assembly Plant St. Paul, Minnesota

5. Summary

Excavation activities successfully removed impacted soil from the area of Sample AGM-SS-001. The excavation was completed to a depth of 12 inches bgs, backfilled, and compacted. Final grading and seeding will be completed in spring 2008. No additional soil remediation is proposed for Feature 139.

Response Action Implementation Report Baseball Fields – Feature 139

Twin Cities Assembly Plant St. Paul, Minnesota

6. References

ARCADIS (2007), Additional Soil Investigation and Surface Soil Risk Assessment Report – Baseball Fields – Feature 139, December 14, 2007.

ARCADIS (2008) Soil Removal Work Plan Baseball Fields – Feature 139, January 3, 2008

Tables

Table 1. Field Screening Headspace Summary and Surface Soil Sampling Laboratory Analysis Status
Twin Cities Assembly Plant, St. Paul, Minnesota

Boring Location	Interval (feet feet. bgs)	Sample Date	PID (ppm)	Laboratory Analysis	
AGM-SS-040	0-0.5	20-Dec-07	0.1	Analyzed	
AGM-SS-041	0-0.5	20-Dec-07	0.1	Hold	
AGM-SS-042	0-0.5	20-Dec-07	0.1	Analyzed	
AGM-SS-043	0-0.5	20-Dec-07	0.2	Hold	
AGM-SS-044	0-0.5	20-Dec-07	0.1	Analyzed	
AGM-SS-045	0-0.5	20-Dec-07	0.1	Hold	
AGM-SS-046	0-0.5	20-Dec-07	0.1	Analyzed	
AGM-SS-047	0-0.5	20-Dec-07	0.1	Hold	

Note:

AGM-SS ARCADIS Surface Soil sample location.

Analyzed Sample analysis was completed by the laboratory.

ASB ARCADIS Soil Boring location.

bgs Below ground surface.

Hold Sample analysis was placed on hold at the laboratory.

Samples were released and disposed of by the laboratory on January 12, 2008.

ppm Parts per million.

PID Photoionization detector.

Table 2.

Summary of Surface Soil Sample Results Collected in December 2007 Twin Cities Assembly Plant, St. Paul, Minnesota

Location ID Sample Name		Tier 1 Residential	Tier 2 Recreational	Tier 2 Industrial	Minnesota Background	AGM-SS-040 AGM-SS-040_0- 0.5(20071220)	AGM-SS-042 AGM-SS-042_0- 0.5(20071220)	AGM-SS-044 AGM-SS-044_0- 0.5(20071220)	AGM-SS-046 AGM-SS-046_0- 0.5(20071220)
Depth Interval (feet) Sample Date	Units	SRV	SRV	SRV	Maximum	0-0.5 12/20/2007	0-0.5 12/20/2007	0-0.5 12/20/2007	0-0.5 12/20/2007
Arsenic Percent Solids	mg/kg mg/kg	5 NS	5 NS	20 NS	15 NS	4.5 73.1	4.9 77.1	4.4 74.2	4.3 74.9

Results are reported in milligrams per kilogram (mg/kg)

References:

ARCADIS (2007), Additional Soil Investigation and Surface Soil Risk Assessment Report - Baseball Fields - Feature 139, December 14, 2007.

N	0	te	C	٠

AGM-SS

ARCADIS Surface Soil Sampling Location.

NS

No standard.

Bold/Underline

Value is above the Tier 1 Residential Soil Reference Value (SRV).

Value is above the Tier 2 Recreational Soil Reference Value (SRV).

Shade Value is above the Tier 2 Industrial Soil Reference Value (SRV).

Table 3.

Summary of Confirmation Soil Sample Results Twin Cities Assembly Plant, St. Paul, Minnesota

Location ID		Tier 1	Tier 2	Tier 2	Minnesota	A_E01_CS001	A_E01_CS002
Sample Name Depth Interval (feet) Sample Date	Units	Residentia SRV	Recreationa SRV	Industrial SRV	Backgroun Maximum	A_E01_CS-001(20080122) 1/22/2008	A_E01_CS-002(20080122) 1/22/2008
Arsenic Percent Solids	mg/kg mg/kg	5 NS	5 NS	20 NS	15 NS	11.3 89.9	11.4 81.3

Results are reported in milligrams per kilogram (mg/kg)

References:

ARCADIS (2007), Additional Soil Investigation and Surface Soil Risk Assessment Report - Baseball Fields - Feature 139, December 14, 2007.

Notes:

A_E01

Shade

ARCADIS Confirmation Sample Location

NS Delatitude de disco No standard.

Bold/Underline

Value is above the Tier 1 Residential Soil Reference Value (SRV).

Value is above the Tier 2 Recreational Soil Reference Value (SRV).

Value is above the Tier 2 Industrial Soil Reference Value (SRV).

Table 4. Summary of Background Data
Twin Cities Assembly Plant, St. Paul, Minnesota

Metals	Units	Minimum	Maximum	Minnesota A. Mean	SD	N
Arsenic	mg/kg	0.5	15	5.5	4.6	37

References:

"Elements in North American Soils," J. Dragun, A. Chiasson, December 1991.

Boerngen, J.G. and H.T. Shacklette. 1981. "Chemical analyses of soils and other surficial materials of the conterminous United States," U.S. Geological Survey Open-File Report 81-197.

Notes:

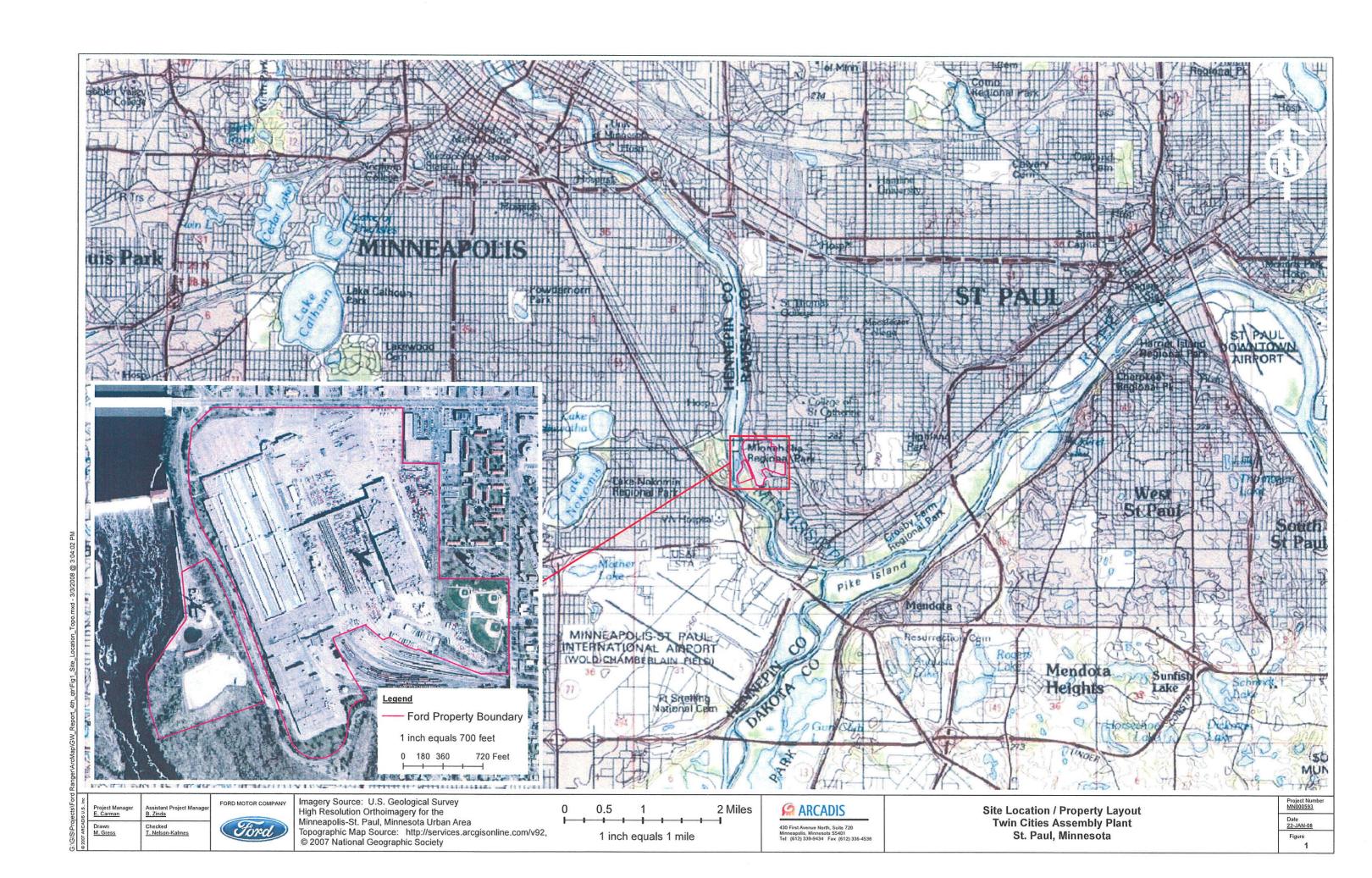
A. mean Arithmetic mean.

SD Standard Deviation.

N Number of samples.

mg/kg Milligrams per kilogram.

Figures







St. Paul, Minnesota





Appendix A

Email Correspondences

Zinda, Bryan

From: Hadiaris, Amy [Amy.Hadiaris@state.mn.us]

Sent: Saturday, January 12, 2008 3:47 PM

To: Zinda, Bryan
Cc: Kromar, Karen

Subject: RE: TCAP_Baseball Field Soil Sample Results

Thanks for the data. Looks good.

Regarding the baseball field soil samples still on hold, yes, you can release those.

Amy K. Hadiaris, P.G. Voluntary Investigation and Cleanup Program Minnesota Pollution Control Agency 520 Lafayette Road St. Paul, MN 55155 Phone: (651) 296-8947

Fax: (651) 296-9707

Email: amy.hadiaris@state.mn.us

----Original Message-----

From: Zinda, Bryan [mailto:Bryan.Zinda@arcadis-us.com]

Sent: Tuesday, January 08, 2008 2:35 PM

To: Kromar, Karen; Hadiaris, Amy

Subject: TCAP_ Baseball Field Soil Sample Results

Hello,

Attached are the results from the four delineation samples.

Also, can we release from the lab all of the samples that are on hold from the borings completed at the baseball fields?

Thanks

Bryan

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Zinda, Bryan

From: Hadiaris, Amy [Amy.Hadiaris@state.mn.us]

Sent: Saturday, January 12, 2008 4:09 PM

To: Zinda, Bryan

Cc: Kromar, Karen; Merritt Clapp-Smith

Subject: Approval of Soil Removal Work Plan - Baseball Fields

Hi Bryan,

The Soil Removal Work Plan for the baseball fields, dated January 3, 2008, is approved, subject to the following clarification:

Backfill for the excavation shall meet the following criteria:

- Free from debris, asbestos-containing material, visual staining, and odor;
- No organic vapors above background, as measured by a PID;
- Less than Residential Soil Reference Values (SRVs);
- Less than Tier 1 Soil Leaching Values (SLVs); and
- Less than 10 mg/kg DRO/GRO

In general, if the fill material is imported from a commercial gravel pit, we don't require sampling. But if the source of the fill is excess soil from another property, the fill material should be screened and sampled to make sure it meets the criteria listed above.

Please let us know at least 1 or 2 days ahead of time when the excavation at the baseball fields will occur, on the chance that we receive any calls from neighbors who may wonder what's going on. Thanks.

Amy K. Hadiaris, P.G. Voluntary Investigation and Cleanup Program Minnesota Pollution Control Agency 520 Lafayette Road St. Paul, MN 55155 Phone: (651) 296-8947

Fax: (651) 296-9707

Email: amy.hadiaris@state.mn.us

Appendix B

Analytical Laboratory Reports



ANALYTICAL REPORT

FORD TWIN CITIES E200572

Lot #: A7L210375

Rebecca Forbort

ARCADIS U.S., Inc. 430 1st. Ave. North Suite 720 Minneapolis, MN 55401

TESTAMERICA LABORATORIES, INC.

Denise Pohl Project Manager

December 30, 2007

CASE NARRATIVE

A7L210375

The following report contains the analytical results for four solid samples and one water sample submitted to TestAmerica North Canton by ARCADIS Geraghty & Miller, Inc. from the Ford Twin Cities E200572 Site. The samples were received December 21, 2007, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 31.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 1.9, 2.0, 2.3, and 2.7°C.

CASE NARRATIVE (continued)

METALS

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton (formerly STL North Canton) conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton (formerly STL North Canton) requires that each environmental sample be associated with a OC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium, Magnesium, Potassium,	
		Sodium, Barium,	
		Chromium, Manganese	***************************************

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica North Canton (formerly STL North Canton) Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), OhioVAP (#CL0024), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit,

N:\QAQC\Customer Service\Narrative - Combined RCRA CWA 061807.doc

EXECUTIVE SUMMARY - Detection Highlights

A7L210375

PARAMETER	RESU	ULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
AGM-SS-040_0-0.5(20071220)	12/20/07 09:25	001				
Arsenic Percent Solids	4.5 73.1	•	1.4	mg/kg %	SW846 6010B MCAWW 160.3 M	IOD
AGM-SS-042_0-0.5(20071220)	12/20/07 09:35	003				
Arsenic Percent Solids			1.3	mg/kg g	SW846 6010B MCAWW 160.3 M	IOD
AGM-SS-044_0-0.5(20071220)	12/20/07 09:45	005				
Arsenic Percent Solids		2	1.3	mg/kg %	SW846 6010B MCAWW 160.3 M	IOD
AGM-SS-046_0-0.5(20071220)	12/20/07 09:55	007				
Arsenic Percent Solids	4.3 74.9		1.3	mg/kg %	SW846 6010B MCAWW 160.3 M	IOD

ANALYTICAL METHODS SUMMARY

A7L210375

PARAMETI	ER	ANALYTICAL METHOD
	esidue as Percent Solids nductively Coupled Plasma (ICP) Metals	MCAWW 160.3 MOD SW846 6010B
Reference	ces:	
MCAWW	"Methods for Chemical Analysis of Water EPA-600/4-79-020, March 1983 and subse	•
SW846	"Test Methods for Evaluating Solid Was Methods", Third Edition, November 1986	——————————————————————————————————————

SAMPLE SUMMARY

A7L210375

<u>WO #</u>	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KEPED	001	AGM-SS-040 0-0.5(20071220)	12/20/07	09:25
KEPE0	003	AGM-SS-042 0-0.5(20071220)	12/20/07	09:35
KEPE3	005	AGM-SS-044 0-0.5(20071220)	12/20/07	09:45
KEPE5	007	AGM-SS-046 0-0.5(20071220)	12/20/07	09:55
KEPFA	009	EB-002 (20071220)	12/20/07	
NOTE (S	S):			

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: AGM-SS-040_0-0.5(20071220)

TOTAL Metals

Lot-Sample #...: A7L210375-001 Matrix.....: S0

Date Sampled...: 12/20/07 09:25 Date Received..: 12/21/07

% Moisture....: 27

REPORTING
PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 7358028

Arsenic 4.5 1.4 mg/kg SW846 6010B 12/24/07 KEPED1AC

Dilution Factor: 1 MDL..... 0.41

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: AGM-SS-040_0-0.5(20071220)

General Chemistry

Lot-Sample #...: A7L210375-001 Work Order #...: KEPED Matrix.....: SO

Date Sampled...: 12/20/07 09:25 Date Received..: 12/21/07

% Moisture....: 27

					PREPARATION-	PREP
PARAMETER	RESULT	RL	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids	73.1	10.0	ુ હુ	MCAWW 160.3 MOD	12/26-12/27/07	7360262
	Di	lution Fact	tor: 1	MDL 10.0		

Client Sample ID: AGM-SS-042_0-0.5(20071220)

TOTAL Metals

Lot-Sample #...: A7L210375-003 Matrix.....: SO

Date Sampled...: 12/20/07 09:35 Date Received..: 12/21/07

% Moisture....: 23

REPORTING PREPARATION—WORK
PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 7358028

Arsenic 4.9 1.3 mg/kg SW846 6010B 12/24/07 KEPE01AC

Dilution Factor: 1 MDL..... 0.39

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: AGM-SS-042 0-0.5(20071220)

General Chemistry

Lot-Sample #...: A7L210375-003 Work Order #...: KEPE0 Matrix.....: S0

Date Sampled...: 12/20/07 09:35 Date Received..: 12/21/07

% Moisture....: 23

Client Sample ID: AGM-SS-044_0-0.5(20071220)

TOTAL Metals

Lot-Sample #...: A7L210375-005 Matrix.....: SO

Date Sampled...: 12/20/07 09:45 Date Received..: 12/21/07

% Moisture....: 26

REPORTING PREPARATION- WORK
PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 7358028

Arsenic 4.4 1.3 mg/kg SW846 6010B 12/24-12/25/07 KEPE31AC

Dilution Factor: 1 MDL.......... 0.40

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: AGM-SS-044 0-0.5(20071220)

General Chemistry

Lot-Sample #...: A7L210375-005 Work Order #...: KEPE3 Matrix.....: SO

Date Sampled...: 12/20/07 09:45 Date Received..: 12/21/07

% Moisture....: 26

Client Sample ID: AGM-SS-046 0-0.5(20071220)

TOTAL Metals

Lot-Sample #...: A7L210375-007 Matrix.....: S0

Date Sampled...: 12/20/07 09:55 Date Received..: 12/21/07

% Moisture....: 25

REPORTING PREPARATION- WORK
PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 7358028

Arsenic 4.3 1.3 mg/kg SW846 6010B 12/24-12/25/07 KEPE51AC

Dilution Factor: 1 MDL..... 0.40

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: AGM-SS-046_0-0.5(20071220)

General Chemistry

Lot-Sample #...: A7L210375-007 Work Order #...: KEPE5 Matrix.....: S0

Date Sampled...: 12/20/07 09:55 Date Received..: 12/21/07

% Moisture....: 25

					PREPARATION-	PREP
PARAMETER	RESULT	RL	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids	74.9	10.0	8	MCAWW 160.3 MOD	12/26-12/27/07	7360262
	Di	lution Fac	tor: 1	MDL: 10.0		

Client Sample ID: EB-002(20071220)

TOTAL Metals

Lot-Sample #...: A7L210375-009 Matrix....: WQ

Date Sampled...: 12/20/07 Date Received..: 12/21/07

REPORTING PREPARATION-WORK METHOD PARAMETER RESULT LIMIT UNITS ANALYSIS DATE ORDER #

Prep Batch #...: 7358031

Arsenic ND 10.0 SW846 6010B 12/24-12/25/07 KEPFA1AA ug/L

> Dilution Factor: 1 MDL..... 3.2



QUALITY CONTROL SECTION

TOTAL Metals

Client Lot #: A7L210375			Ma	Matrix SOLID		
RESULT			METHOD	PREPARATION-	WORK ORDER #	
• 371.240000-	.028 Prep 1	Ratch # .	7358028			
	_			12/24/07	KEOMH1A	
1410			20100 00100	12/24/01	VEČMUTA	
	RESULT : A7L240000- ND	RESULT LIMIT : A7L240000-028 Prep I ND 1.0	: A7L240000-028 Prep Batch #:	RESULT LIMIT UNITS METHOD : A7L240000-028 Prep Batch #: 7358028 ND 1.0 mg/kg SW846 6010B	RESULT LIMIT UNITS METHOD ANALYSIS DATE : A7L240000-028 Prep Batch #: 7358028	

TOTAL Metals

Client Lot #: A7L210375			Ma	Matrix: WATER			
PARAMETER	RESULT	REPORTIN	NG UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #	
MB Lot-Sample	#: A7L24000C)-031 Prep I	Batch #:	7358031			
Arsenic	ND	10.0	ug/L	SW846 6010B	12/24/07	KEQML1AA	
		Dilution Fac					

General Chemistry

Client Lot #...: A7L210375

Matrix..... SOLID

		REPORTING	=		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids		Work Order	#: KER2W1AA	MB Lot-Sample #:	A7L260000-262	
	ND	10.0	olo	MCAWW 160.3 MOD	12/26-12/27/07	7360262
		Dilution Fact	or: 1			

NOTE(S):

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7L210375 Matrix.....: SOLID

PERCENT RECOVERY PREPARATION-

PARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A7L240000-028 Prep Batch #...: 7358028

Arsenic 90 (80 - 120) SW846 6010B 12/24/07 KEQMH1AV

Dilution Factor: 1

NOTE(S):

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7L210375 Matrix....: WATER

PERCENT RECOVERY PREPARATION-

PARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A7L240000-031 Prep Batch #...: 7358031

Arsenic 91 (80 - 120) SW846 6010B 12/24/07 KEQML1A3

Dilution Factor: 1

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7L210375 Matrix....: SOLID Date Sampled...: 12/20/07 11:00 Date Received..: 12/21/07 PERCENT RECOVERY RPD PREPARATION-WORK PARAMETER RECOVERY LIMITS RPD LIMITS METHOD ANALYSIS DATE ORDER # MS Lot-Sample #: A7L210281-001 Prep Batch #...: 7358028 % Moisture....: 0.88 89 Arsenic (75 - 125)SW846 6010B 12/24/07 KENN01A8 92 (75 - 125) 2.7 (0-20) SW846 6010B 12/24/07 KENN01A9 Dilution Factor: 5

Calculations are performed before rounding to avoid round-off errors in calculated results.

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A7L210375 Matrix....: WATER

Date Sampled...: 12/20/07 10:10 Date Received..: 12/21/07

PERCENT RECOVERY RPD PREPARATION-WORK PARAMETER RECOVERY LIMITS RPD LIMITS METHOD ANALYSIS DATE ORDER # MS Lot-Sample #: A7L210202-001 Prep Batch #...: 7358031 Arsenic 90 (75 - 125)SW846 6010B 12/24/07 KEMX61A4 92 (75 - 125) 1.4 (0-20) SW846 6010B 12/24/07 KEMX61A5

Dilution Factor: 1

NOTE(S):

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L210375 Work Order #...: KEGJN-SMP Matrix.....: SOLID

KEGJN-DUP

Date Sampled...: 12/19/07 13:35 Date Received..: 12/19/07

% Moisture....: 19

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Percent Solids					SD Lot-Sample #:	A7L190290-011	
81.2	82.3	%	1.3	(0-20)	MCAWW 160.3 MOD	12/26-12/27/07	7360262

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L210375 Work Order #...: KEPC2-SMP Matrix.....: SOLID

KEPC2-DUP

Date Sampled...: 12/20/07 12:14 Date Received..: 12/21/07

% Moisture....: 23

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Percent Solids					SD Lot-Sample #:	A7L210369-003	
77.0	77.2	olo O	0.25	(0-20)	MCAWW 160.3 MOD	12/26-12/27/07	7360262

Dilution Factor: 1

TestAmerica

Chain of

THE LEADER IN ENVIRONMENTAL TESTING

Special Instructions/ Conditions of Receipt (e) *CENEL 2* (A fee may be assessed if samples are retained longer than 1 month) Time ő Chain of Custody Number 3 7 9 7 5 7 AWALYZE BUALUZE ANALY ZE ANALYZE 12.22.07 HOLD HOLD HOLD 12/20/07 Lab Number Analysis (Attach list if more space is needed) Months 401 01 4M - S-04,643, 045,047 Date פיים בעונות ב Disposal By Lab Archive For QC. Requirements (Specify) 1612-336-4538 YaOrV HOsV Containers & Preservatives HOPN 1 Received By Dewise Parc Received By Received By IDH Telephone Number (Area Code)/Fax Number EONE Lab Contact \$0SZ} səxdur からす 12/20/07 Time 14:15 Return To Client K DICASG ANALYAE' ACM - S-040 042,044 DAG X DISTRIBUTION: WHITE RELUMBED to Client with Report: CANARY . SIBYS With the Sample; PINK . Field Copy Sample Disposal 1876-188-219 Omer LIDEMAL X Ŋ 'n 7,000 Carrier/Waybill Number Matrix BC478 X Project Manager Site Contact 40 K Unknown Date 12/20/07/08/40 Time 0830 2460 Folos/51 12/20107 Falassa 2/20/07/09/55 12/20/07/1000 12/20/07 10935 524 21 Days 12 20 07 Bunk -TB-002(20041220) 12/20/07 FAKE TUSIN CITIES! PHASE B ST. PAUL, MN. Contract/Purchase Order/Quote No. FRED - TCAD - 03 / ENDVIS F. 2005 75 - WAY 2/20/07 12/20/07# ☐ Poison B Date 55401 Suite 720 ☐ 14 Days (Containers for each sample may be combined on one line) ALM-55-042-0-0,5 (20071210) Skin trritant 375 A6M-SS-0-13_0-0.5 (2007-1220) 4641-55-044-0-0.5 (2007-1220) 4cm-55-049-0-05 (20071720) 100015001/20-0-040-82-MOA Nan-8-045-0-0.5 (20071220) AUM-SS-640-046 (2007 (200) Sample I.D. No. and Description ALAM-55-041-0-05 (20071720) 7 Days Aplianis U.S. INC. EB-002 (2007 1220) ☐ Flammable 430 FIRST AVE A Mi MMGACOLIS
Project Name and Location (State) **Custody Record** 48 Hours Possible Hazard Identification Turn Around Time Required 3. Relinquished By Non-Hazard TAL-4142 (0907) 24 Hours

estAmerica Coo	oler Receipt Form/Narrative Lo	of Number: A 1501	
orth Canton Fa	cility	NEON	9
lient <u>ARCADIS</u>	Project	Quote #	<u> </u>
		By A	
Client Drop I	Off UPS DHL FAS TestAmerica	a Courier∐ (Sign	ature)
tetson US Cargo	T Olliel	. ""	
	D/ I Fram Box Client	Cooler Other	ALA ETE
estAmerica Cooler #_	on the outside of the cooler? Yes \(\square\) No	Intact? Yes 🗌 No 🗌	NA 🔄
Wore custody seals	on the outside of cooler signed and dated?	Yes No NA	÷
Were custody seals	on the bottles?	Yes 🗌 No 🗗	
If VES, are there at	v exceptions	Yes ☑ No □	
المستمدالية المستمال	in attached to this form?		es P No 🗍
Pid ouglody namers	accompany the sallible(s): Les Krisso m	Yes No D	
b. Did you sign the cus	tody papers in the appropriate prace:	Other	
Packing material us	ed: Bubble Wrap Foam None None	ultiple coolers/temps)	
Cooler temperature	upon receipt (See back or form for in	imple of the second of the sec	
	Other Dry Ice Water	□ None □	
COOLANT: Wet Ice	1/ Dide 100 L	Yes ☑ No 🛄	
7. Did all bottles arrive	in good condition (Unbroken)? els and/or tags be reconciled with the COC?	Yes 🛮 No 🔲	
3. Could all pottle labe	e correct pH upon receipt?	Yes 🔲 No 🛄 NA	Ш
9. Were samples at ill	s used for the tests indicated?	Yes No U	r===1
44 Mars air bubbles Si	s mm in anv VOA vials?	Yes No NA	<u>.</u>
12 Sufficient quantity	received to perform indicated analyses?	Yes No L	[]
		No an the COCZ Yes to 1 No	
13 Was a Trip Blank	resent in the cooler? Yes No Were VC	As of the Soot Not Work	of Dother
13. Was a Trip Blank Contacted PM	received to perform indicated analyses? oresent in the cooler? Yes No Were VO Date by	via Voice Mail 🗌 Verb	al 🔲 Other 🗌
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13. Was a Trip Blank Contacted PM Concerning 14. CHAIN OF CUSTO The following discommoder and the following di	Dateby	or the recommended holding tin	me had expired
13. Was a Trip Blank p Contacted PM Concerning 14. CHAIN OF CUSTO The following disc 15. SAMPLE CONDIT Sample(s)	Dateby		me had expired
13. Was a Trip Blank Contacted PM Concerning 14. CHAIN OF CUSTO The following discommoder 15. SAMPLE CONDITION Sample(s) Sample(s)	Date	or the recommended holding tin were received in a br	me had expired oken container
13. Was a Trip Blank p Contacted PM Concerning 14. CHAIN OF CUSTO The following disc 15. SAMPLE CONDIT Sample(s) Sample(s) 16. SAMPLE PRESE	Date	or the recommended holding tir were received in a br	me had expired oken container
13. Was a Trip Blank p Contacted PM Concerning 14. CHAIN OF CUSTO The following disc 15. SAMPLE CONDIT Sample(s) Sample(s) Sample(s) Sample(s)	Date	r the recommended holding the were received in a brother preserved in sample received to # 1022016-H2SO4: Sodium	me had expired oken container siving to meet Hydroxide Lot #
13. Was a Trip Blank p Contacted PM Concerning 14. CHAIN OF CUSTO The following disc Sample(s) Sample(s) Sample(s) Fecommended pl 122805 -NaOH: Hi	Dateby	r the recommended holding the were received in a brother preserved in sample received to # 1022016-H2SO4: Sodium	me had expired oken container siving to meet Hydroxide Lot #
13. Was a Trip Blank p Contacted PM Concerning 14. CHAIN OF CUSTO The following disc Sample(s) Sample(s) Sample(s) Fecommended pl 122805 -NaOH: Hi	Dateby	or the recommended holding ting were received in a brother preserved in sample received to t # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-CH	me had expired oken container siving to meet Hydroxide Lot # 13COO2ZN/NaO
13. Was a Trip Blank Contacted PM	Date	or the recommended holding tir were received in a br orther preserved in sample rece cid Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-Ch	me had expired oken container. Siving to meet Hydroxide Lot # 13COO2ZN/NaO
13. Was a Trip Blank Contacted PM	Dateby	or the recommended holding ting were received in a brother preserved in sample received Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-CH2sd with bubble > 6 mm in diam Date	me had expired oken container. iving to meet Hydroxide Lot # //3COO2ZN/NaO eter (Notify PM
13. Was a Trip Blank Contacted PM	Date	or the recommended holding tir were received in a br orther preserved in sample rece cid Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-Ch	me had expired oken container. Siving to meet Hydroxide Lot # 13COO2ZN/NaO
13. Was a Trip Blank p Contacted PM Concerning 14. CHAIN OF CUSTO The following disc Sample(s) Sample(s) Sample(s) recommended pl 122805 -NaOH; H) What time was p Sample(s) Client ID 1500	Date	or the recommended holding ting were received in a brother preserved in sample received Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-CH2sd with bubble > 6 mm in diam Date	me had expired oken container. iving to meet Hydroxide Lot # //3COO2ZN/NaO eter (Notify PM Initials
13. Was a Trip Blank Contacted PM	Date	or the recommended holding ting were received in a brother preserved in sample received Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-CH2sd with bubble > 6 mm in diam Date	me had expired oken container. iving to meet Hydroxide Lot # //3COO2ZN/NaO eter (Notify PM
13. Was a Trip Blank Contacted PM	TION were received after RVATION Were fur H level(s). Nitric Acid Lot #071707-HNO3 - Sulfuric Acid acid cochloric Acid Lot #092006-HCl; Sodium Hydroxide acid reservative added to sample(s)? were received after were fur Were received acid Lot #092006-HCl; Sodium Hydroxide acid cochloric Aci	or the recommended holding ting were received in a brother preserved in sample received Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-CH2sd with bubble > 6 mm in diam Date	me had expired oken container. iving to meet Hydroxide Lot # //3COO2ZN/NaO eter (Notify PM Initials
13. Was a Trip Blank Contacted PM	Date	or the recommended holding ting were received in a brother preserved in sample received Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-CH2sd with bubble > 6 mm in diam Date	me had expired oken container. iving to meet Hydroxide Lot # //3COO2ZN/NaO eter (Notify PM Initials
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13. Was a Trip Blank Contacted PM	Date	or the recommended holding ting were received in a brother preserved in sample received Lot # 092006-H2SO4; Sodium and Zinc Acetate Lot # 050205-CH2sd with bubble > 6 mm in diam Date	me had expired oken container. iving to meet Hydroxide Lot # //3COO2ZN/NaO eter (Notify PM Initials

	TestAmerica Cooler Receipt Form North Canton Facility	n/Narrative	
Client ID	рН	Date	Initials
Cooler	Temp °C	Method	Coolant
DHUH	2.0	IR	ice
X742 L572	2.7		
K 653	2.3		

crepancies Cont'd		· ·	
crepancies cont u			
		/	
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	•		



END OF REPORT



December 31, 2007

Rebecca Forbort ARCADIS 430 First Avenue North, Ste 720 Minneapolis, MN US 55401

Enovis project ID: E200572

Project: FORD-Twin Cities Assembly Plant Project number: MN000591,0001.0001 Laboratory: TestAmerica - North Canton Laboratory submittal: A7L210375

Sample date: 2007-12-20

Report received by Enovis: 2007-12-31

Initial Data Verification completed by Enovis: 2007-12-31

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the Enovis Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

There were no significant QC anomalies or exceptions to report.

The definitions of the qualifiers used for this data package are defined in the analytical report. Enovis valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory's analytical report access the Enovis CLMS at http://d3.106.80.11/enovis53/index.cfm.

Please contact me if you have any questions.

Sincerely,

Tim Abston

Project Scientist

Enovis Valid Qualifiers

Valid Qualifiers	Description
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
JB	The analyte / compound was detected in the associated blank between the MDL and the laboratory's reporting detection limit. For Inorganic methods the sample concentration was < 10x the blank concentration and is considered estimated. For Organic methods the sample concentration was < 5x or 10x for common laboratory contaminates, the blank concentration and is considered estimated.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
υJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.



ANALYTICAL REPORT

PROJECT NO. MN000593

FORD TCAP E200572

Lot #: A8A300208

Rebecca Forbort

ARCADIS U.S., Inc. 430 1st. Ave. North Suite 720 Minneapolis, MN 55401

TESTAMERICA LABORATORIES, INC.

Denise Pohl Project Manager

February 6, 2008

CASE NARRATIVE

A8A300208

The following report contains the analytical results for two solid samples submitted to TestAmerica North Canton by ARCADIS Geraghty & Miller, Inc from the Ford TCAP E200572 Site, project number MN000593. The samples were received January 30, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 23.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 17.1°C.

See TestAmerica's Cooler Receipt Form for additional information.

METALS

The matrix spike/matrix spike duplicate(s) for batch(es) 8031021 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	and the state of t
		Magnesium, Potassium,	}
	1	Sodium, Barium,	
		Chromium, Manganese	

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), OhioVAP (#CL0024), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit,

N:\OAQC\Customer Service\Narrative - Combined RCRA CWA 061807.doc

$\label{eq:executive summary - Detection Highlights} \textbf{EXECUTIVE SUMMARY - Detection Highlights}$

A8A300208

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
A_E01_CS-001(20080122) 01/22/08 12:45	5 001			
Arsenic Percent Solids	11.3 89.9	1.1 10.0	mg/kg %	SW846 6010B MCAWW 160.3 MOD
A_E01_CS-002(20080122) 01/22/08 14:45	5 002			
Arsenic Percent Solids	11.4 81.3	6.1 10.0	mg/kg %	SW846 6010B MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8A300208

PARAMETI	ER	ANALYTICAL METHOD
	esidue as Percent Solids nductively Coupled Plasma (ICP) Metals	MCAWW 160.3 MOD SW846 6010B
Referen	ces:	
MCAWW	"Methods for Chemical Analysis of Wate EPA-600/4-79-020, March 1983 and subse	
SW846	"Test Methods for Evaluating Solid Was Methods", Third Edition, November 1986	

SAMPLE SUMMARY

A8A300208

<u>WO # S</u>	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KGAMJ KGAM1		A_E01_CS-001(20080122) A_E01_CS-002(20080122)	01/22/08 01/22/08	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: A E01 CS-001(20080122)

TOTAL Metals

Lot-Sample #...: A8A300208-001 Matrix.....: S0

Date Sampled...: 01/22/08 12:45 Date Received..: 01/30/08

% Moisture....: 10

PARAMETER RESULT REPORTING PREPARATION— WORK
LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 8031021

Arsenic 11.3 1.1 mg/kg SW846 6010B 01/31/08 KGAMJ1AC

Dilution Factor: 1 MDL..... 0.33

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: A E01_CS-001(20080122)

General Chemistry

Lot-Sample #...: A8A300208-001 Work Order #...: KGAMJ Matrix.....: SO

Date Sampled...: 01/22/08 12:45 Date Received..: 01/30/08

% Moisture....: 10

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Percent Solids
 89.9
 10.0
 %
 MCAWW 160.3 MOD
 01/30-01/31/08
 8030296

Client Sample ID: A E01 CS-002(20080122)

TOTAL Metals

Lot-Sample #...: A8A300208-002 Matrix.....: S0

Date Sampled...: 01/22/08 14:45 Date Received..: 01/30/08

% Moisture....: 19

PARAMETER RESULT REPORTING PREPARATION— WORK
LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 8031021

Arsenic 11.4 6.1 mg/kg SW846 6010B 01/31/08 KGAM11AC

Dilution Factor: 5 MDL..... 1.8

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: A E01 CS-002(20080122)

General Chemistry

Lot-Sample #...: A8A300208-002 Work Order #...: KGAM1 Matrix.....: S0

Date Sampled...: 01/22/08 14:45 Date Received..: 01/30/08

% Moisture....: 19

					PREPARATION-	PREP
PARAMETER	RESULT	RL	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids	81.3	10.0	8	MCAWW 160.3 MOD	01/30-01/31/08	8030296
	Dil	ution Facto	r: 1	MDL 10.0		



QUALITY CONTROL SECTION

TOTAL Metals

Client Lot #: A8A300208					Matrix SOLID		
PARAMETER	RESULT	REPORTII	NG UNITS	METHOD	PREPARATION~ ANALYSIS DATE	WORK ORDER #	
MB Lot-Sample	e #: A8A310000	0-021 Prep 1	Batch #:	8031021			
Amaania		1 ^	/1	0110 4 0 004 00	01/01/00		
Arsenic	ND	1.0	mg/kg	SW846 6010B	01/31/08	KGCJA1CV	

General Chemistry

Matrix..... SOLID Client Lot #...: A8A300208

		REPORTING	G		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH #
Percent Solids		Work Order	#: KGAV31AA	MB Lot-Sample #:	A8A300000-296	
	ND	10.0	양	MCAWW 160.3 MOD	01/30-01/31/08	8030296
		Dilution Fact	or: 1			

NOTE(S):

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8A300208 Matrix.....: SOLID

PERCENT RECOVERY PREPARATION-

PARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A8A310000-021 Prep Batch #...: 8031021

Arsenic 82 (80 - 120) SW846 6010B 01/31/08 KGCJA1C1

Dilution Factor: 1

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #: A8A300208 Date Sampled: 01/29/08 09:35 Date Received: 01/30/08						
PARAMETER	PERCENT RECOVERY	RECOVERY RPI LIMITS RPD LIM	D MITS METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #	
MS Lot-Sampl	e #: A8A30	0151-001 Prep Batch	h #: 8031021	% Moisture	± 17	
Arsenic	80 74 N	(75 - 125) (75 - 125) 8.0 (0- Dilution Factor:	•	01/31/08 01/31/08	KF9621D6 KF9621D7	

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8A300208 Work Order #...: KF935-SMP Matrix.....: SOLID

KF935-DUP

Date Sampled...: 01/29/08 13:52 Date Received..: 01/30/08

% Moisture....: 26

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Percent Solids			•		SD Lot-Sample #:	A8A300139-001	
74.0	73.6	olo (0.47	(0-20)	MCAWW 160.3 MOD	01/30-01/31/08	8030296

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8A300208 Work Order #...: KF98P-SMP Matrix.....: SOLID

KF98P-DUP

Date Sampled...: 01/29/08 15:00 Date Received..: 01/30/08

% Moisture....: 6.5

	DUPLICATE			RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Percent Solids					SD Lot-Sample #:	A8A300151-021	
93.5	95.5	og	2.2	(0-20)	MCAWW 160.3 MOD	01/30-01/31/08	8030296
			_				

Dilution Factor: 1

Test/America ANALYTICAL TESTING CORPORATION

(2) PH 07/3
To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

			State: MN			PO#		QC Deliverables	/ / Level 2	(Betch QC)	Level 4	Other	AND ORFACE REMARKS	10-76-08	REBOLLE FORBITH	CALLOL REGUES	FORWING Strola	to Now the Cantu	ATTW DENGEL PUR	July 1	sed in Peres		20 C Se	7)
	Project Name: FORD - TCAP	Project #: 141/ 200593	ST. PAUL	Report To: BRYAN ZININA	Invoice To: BENEN FINDA	,	For		_							-						1/4 LABORATORY COMMENTS:	Mit Lab Temps	
	Project Name:	Project #:	(5. Site/Location ID:	Report To:	Invoice To: Z	Quote #:	Analyze For			Tr	To the second	70	一 室									BAG IS EXTUR STUPLY	つ多 1	1-15 1-15
Client #:	700		BRUAN. ZINCA Q ALCADIS - 415. SHENLOCATION ID:)			Preservation & # of Containera					Speci	Methan None Other (- 1		Cod (CR.	_	120c
	N. Suite	10/25/WI	_	Fax	MEEWSEN	1	Matrix Preservation &	pilos	King V	S	May et	gunoi	N®OH HCI HNO ²	>	>		השנשה					426	111 Bedunped,"	160 Received By:
AKOADIS	Address: 430 FIRST AVE	MM-ABLIS 11	eyan Zunok	2.339-9434		No.) 		əjiso	duio	yeq	dms2	6 = G 1 bleid	- S) Sh:2180/72/1	12208 W.45 G		108-1-					Elissa.	. Baga	1/23/08 1400
Client Name A	Address: 4	City/State/Zip Code: MININER (DLIS.	Project Manager: Bayan	Telephone Number: 612-339-9434	Sampler Name: (Print Name) Meuss	Sampler Signature	•	IAT K. Standard	Rush (surcharges may apply)	ate Needed:			AMPLE ID	-E01-CS-001(2080122) 1/22	- E01-CS-002 (20000 22) 1122		ing Black 12/08	,				pecial instructions: TOARREM CA		elinquished By All Ann

20 Time 12 Section of Sispment: Dock

Custody Souls

Received By:

Date:

Relinquished By: Relinquished By:

Relinquished B

Time: Time:

TestAmerica Cooler Receipt Form/Narrative Lot N	umber: <u>AM. X</u>	0208
North Canton Facility		
Client Accadi S Project	Quote #/	200
Cooler Received on 1/30/08 Opened on 1/30/08	By	ed d
FedEx 🔯 Client Drop Off 🗀 UPS 📋 DHL 📋 FAS 🔝 TestAmerica Coi	ırier∐ ′/ (Si	gnature)
Stetson US Cargo Other	er Other RC	\checkmark
TestAmerica Cooler # Foam Box ☐ Client Cool 1. Were custody seals on the outside of the cooler? Yes ☐ No ☒ In	er □ Other <u>♪</u> ○ tact? Yes □ No [1 NA KI
	ract tes [] No [
If YES, Quantity Were custody seals on the outside of cooler signed and dated?	es 🗌 No 🗀 NA 🖸	*
Were custody seals on the bottles?	es 🗍 No 🔼 🍈	
If YES, are there any exceptions	()	
	es 🖾 No 🗌	Voc Ital No I
3. Did custody papers accompany the sample(s)? Yes No R	elinquished by client?	Tes 180
	ther	
6. Cooler temperature upon receipt 17. °C (see back of form for multiple		
METHOD: IR 🔃 🔐 Other 🗌		
COOLANT: Wet Ice Blue Ice Dry Ice Water	None 🔼	
7. Did all bottles arrive in good condition (Unbroken)?	Yes No U	
8. Could all bottle labels and/or tags be reconciled with the COC?	Yes ☑ No ☐ NA	1 2 21.
9. Were samples at the correct pH upon receipt? 10. Were correct bottles used for the tests indicated?	Yes No 🗆	
11. Were air bubbles >6 mm in any VOA vials?	1 = ==	Æ
12. Sufficient quantity received to perform indicated analyses?	Yes ∰ No 🔲	
13. Was a Trip Blank present in the cooler? Yes \(\text{No No No Were VOAs on} \)	the COC? Yes N	
	via Voice Mail 💆 Vei	bai 🔲 Other 🔲
Concerning 中口 14. CHAIN OF CUSTODY		
The following discrepancies occurred:		
High Tono - No tre		
		<u></u>
15. SAMPLE CONDITION		
Sample(s) were received after the re		
Sample(s)	were received in a b	roken container.
16. SAMPLE PRESERVATION	acar ad in assenta	nivina ta maat
Sample(s) were further pure recommended pH level(s). Nitric Acid Lot #071707-HNO3 - Sulfuric Acid Lot #	eserved in sample rec	
122805 -NaOH; Hydrochloric Acid Lot # 092006-HCl; Sodium Hydroxide and Zind	Acetate Lot # 050205-C	H3COO2ZN/NaOH
What time was preservative added to sample(s)?		
Sample(s) were received with	bubble > 6 mm in dian	······································
Client ID PH	Date	Initials
		_

21

	TestAmerica Cooler Receipt Form/Narra	five	
	TestAmerica Cooler Receipt Form/Narra North Canton Facility		
Client ID	На	Date	Initials
	;		
•			
Cooler	Temp °C	Method	Coolant
Discrepancies Cont'd			<u> </u>
W with the second of the second was	and the state of t		



END OF REPORT



February 07, 2008

Rebecca Forbort ARCADIS 430 First Avenue North, Ste 720 Minneapolis, MN US 55401

Enovis project ID: E200572

Project: FORD-Twin Cities Assembly Plant Project number: MN000591.0001.0001 Laboratory: TestAmerica - North Canton Laboratory submittal: A8A300208

Sample date: 2008-01-22

Report received by Enovis: 2008-02-06

Initial Data Verification completed by Enovis: 2008-02-07

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the Enovis Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

There were no significant QC anomalies or exceptions to report.

The definitions of the qualifiers used for this data package are defined in the analytical report. Enovis valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory's analytical report access the Enovis CLMS at http://enovis-inc.com/enovis53/index.cfm.

Please contact me if you have any questions.

Sincerely,

Tim Abston

Project Scientist

Enovis Valid Qualifiers

Valid Qualifiers	Description
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
ЈВ	The analyte / compound was detected in the associated blank between the MDL and the laboratory's reporting detection limit. For Inorganic methods the sample concentration was < 10x the blank concentration and is considered estimated. For Organic methods the sample concentration was < 5x or 10x for common laboratory contaminates, the blank concentration and is considered estimated.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

ARCADIS

Appendix C

Non-Hazardous Waste Manifests



MM/IA Lanofills - Spruce Ridge RMF 12755 1277H ST BLEWLOC, May 00236

Original Ticketh 211472

Volume

Customer Make WM-BLAINE Ticket Data - 0:/24/2008

Payment Type Credit Account

Manual Trobert Hauling Ticket#

Route

State Waste Code Manifest 29478

Destination

6 PARSE

PO

Profile

SRIVOITSMAE (FORD MOTOR COPANY/SOIL BORINGS)

Contenue of

148-FURDMOTOPO FURD MOTOR COMPRAY

Phys (380) 884-8503

1 1 16 6

\$1724 CBBS 11:52:89 Oni - 51/24/2008 12:25:46

80319 Somia: Scale

Operator fave

Carrier

Container

Billing #

Gen EPA ID

Driver

Check#

Linense

Vehicle# 646

DAN

99999941

YTA247375X

faye

Gross Tare

MALETAL MALETALINE

71840 16 43480 15 28350 Ib

Meti Tons

14,18

GSM-9-30

Cosments

- Ferst real borings

Pred	KC %	LDY	My	DOM	Pake	Tex	Amount	Origin
	eren eren i in der eren eren eren eren eren eren eren		ee oo aasaa ka saa aa aa					
1	Special hase fonse	ÞØ i	14.45	Your				KAMSM

lotal Tax Total Ticket

Driver's Simmature

BALL FIET

403WM

SECTION 6 ASBE	CONTRACTOR OF THE PROPERTY OF	
Operator" is defined as the company which owns, leases, operates, enovation operation or both.	controls, or supervises the facility ba	ing demolished or renovated, or the demolition or
Operator's Name:	c) Telephone Number: ()	
Operator's Address:	City, State, Zip	
Recommended special handling instructions and additional information:		
Operator's Certification: I hereby warrant and declare that the conter and are classified, marked, and labeled, and are in all respects in pr law, regulations, ordinances, orders, rules and/or standards.	nts of this consignment are fully and ac roper condition for transport by highway	curately described above by proper shipping name according to applicable international and domestic

Signature of Operator's Authorized Agent

f) Responsible Agency Minnesota Pollution Control Agency, 520 Lafayette Road N., St. Paul, MN 55155

Name and Address: Metro 651-296-6300 Out of State 1-800-657-3864

Operator's Name (print/type)

111-005/SPRUCE

IN 1 // GENERATOR INFORMATI	ION (generator to complete)
erator's Name: FORD WITTOR (or)MAN) Gener	rating Location (Name):
WILLIAMS WANAGEMENT 2,	
	ess:
ST. AUC W/W 55/16	
	hone Number: ()
Telephone Number: (4/3) 1655 - 7738	
WASTE MANAGEMENT APPROVAL CODE SR 7025	taarde g gaar a
SR 7101215 A 17	ROLLITAMINE
	estos ONLY - Friable; Both; % friable % non-friable
Description of Waste: STIL (BALL VARK)	Non-triable; N/A
	of Containers: Type OF CONTAINERS TR - TRUCK
Tons X Cubic YardsOther o) Total	DM - METAL DRUM DP - PLASTIC DRUM
Number of Containers:	How Many BA - BAG
) I haraby warrant that the above named material is the same material as represented of	n the Special Waste Disposal Application BB - 6 MIL. PLASTIC BAG
identified by the above Waste Management Code and such material was delivered to t	the transporter on the shipment date referenced below.
TOD GRUNES ISX	
CONTRACTOR OF THE PROPERTY OF	ator's Authorized Agent Shipment Date SECTION 3 TRANSFER FACILITY - (Complete if applicable)
	a) Transfer Facility's Name:
	b) Transfer Facility's Address:
) Telephone Number: ())) // , , , , , , , , , , , , , , ,	c) Telephone Number: ()
) Vehicle License No./State:	d) Vehicle License No./State:
) Trailer or Container No.:	e) Trailer or Container No.:
Name of Driver (print/type)	Authorized Agent (print/type)
I hereby warrant that the above named and described material was received from the generator on the date of receipt referenced below.	g) I hereby warrant that the above named and described material was received from the transporter on the date of receipt referenced below.
Signature of Driver Date of Receipt	
Signature of Driver Date of Receipt	Signature of Transfer Facility's Authorized Agent Date of Receipt h) I hereby warrant that the above named and described material was delivered
I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.	to the transporter without incident or contamination on the date of delivery
	referenced below.
Signature of Driver Date of Delivery SECTION 4 TRANSPORTER 2 - (Complete if applicable)	Signature of Transfer Facility's Authorized Agent Date of Delivery SECTION 5 DESTINATION (Disposal Facility)
SECTION 4 TRANSPORTER 2 - (Complete if applicable)	
a) Transporter's Name:	a) Disposal Facility's Name: SPRUCE RIDGE LANDFILL Permit No. SW-
o) Transporter's Address:	b) Physical Address: 12755 137th ST. GLENCOE, MN 55336 Petrill No. 3VV
c) Telephone Number: ()	c) Telephone Number: (320) <u>864-5503</u>
	0.335
•	Ly Mailing Address: SAME.
t) Vehicle License No/State:	d) Mailing Address: SAME, e) Name of Disposal Facility's SAME, Authorized Apost (print/hypo) (C) (A) (C) (C) (C) (C) (C)
i) Vehicle License No/State: ii) Trailer or Container No.: iii) Name of Driver (print/type)	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) f) The material delivered by the Transporter has been received at the Disposal Facility.
i) Vehicle License No/State: ii) Trailer or Container No.: iii) Name of Driver (print/type) iii) I haveby warrant that the above named and described material was received	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility.
a) Vehicle License No./State:	d) Mailing Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) 7) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at
(i) Vehicle License No./State: (ii) Trailer or Container No.: (iii) Name of Driver (print/type) (iii) I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Date of Receipt	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 7. The material delivered by the Transporter has been received at the Disposal Facility. Sidnature of Disposal Facility's Authorized Agent Date of Receipt
(i) Vehicle License No./State: (ii) Trailer or Container No.: (iii) Name of Driver (print/type) (iii) I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Date of Receipt	d) Mailing Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) 7) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at
Trailer or Container No.: Name of Driver (print/type)	d) Mailing Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection
Yehicle License No/State: Trailer or Container No: Name of Driver (print/type) I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Date of Receipt I hereby warrant that the above named and described material was delivered on the delivery date referenced below. Signature of Driver Date of Delivery	d) Mailing Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) 7. The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection
Trailer or Container No.: Name of Driver (print/type). I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Date of Receipt hit i hereby warrant that the above named and described material was delivered on the delivery date referenced below. Signature of Driver Date of Delivery Date of Delivery SECTION 6 ASBESTOS (op	d) Mailing Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) Authorized Agent (print/type) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Date of Rejection
Trailer or Container No.: Name of Driver (print/type) I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Date of Receipt on the delivery date referenced below. Signature of Driver Date of Driver Date of Delivery Date of Driver Date of Drivery SECTION 6 "Operator" is defined as the company which owns, leases, operates, controls,	d) Mailing Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) Authorized Agent (print/type) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Date of Rejection
Vehicle License No./State: Trailer or Container No.: Name of Driver (print/type) I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Date of Receipt not the delivery date referenced below. Signature of Driver Date of Driver Date of Delivery Section 6 ASBESTOS (op	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection perator to complete) or supervises the facility being demolished or renovated, or the demolition of
Vehicle License No./State:	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Detail of Rejection Date
Vehicle License No./State:	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Derator to complete) or supervises the facility being demolished or renovated, or the demolition of phone Number: (
Trailer or Container No.: Name of Driver (print/type)	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt (print) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Perator to complete) or supervises the facility being demolished or renovated, or the demolition of phone Number: () State, Zip
d) Vehicle License No/State: e) Trailer or Container No.: f) Name of Driver (print/type) g) I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Date of Receipt h) I hereby warrant that the above named and described material was delivered on the delivery date referenced below. Signature of Driver Date of Delivery SECTION 6 ASBESTOS (op "Operator" is defined as the company which owns, leases, operates, controls, renovation operation or both. a) Operator's Name: c) Teleptory d) Recommended special handling instructions and additional information: e) Operator's Certification: I hereby warrant and declare that the contents of this and are classified marked and labeled and are in all respects in proper condi-	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt (print) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Perator to complete) or supervises the facility being demolished or renovated, or the demolition of phone Number: () State, Zip
Vehicle License No./State:	d) Mailing Address: SAME. e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt (print) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Perator to complete) or supervises the facility being demolished or renovated, or the demolition of phone Number: () State, Zip
Name of Driver (print/type) 3) I hereby warrant that the above named and described material was received on the date of receipt referenced below. Signature of Driver Signature of Driver Date of Receipt 1) I hereby warrant that the above named and described material was delivered on the delivery date referenced below. Signature of Driver Date of Delivery SECTION 6 ASBESTOS (op "Operator" is defined as the company which owns, leases, operates, controls, renovation operation or both. a) Operator's Name: c) Teleptor of Delivery City, d) Recommended special handling instructions and additional information: e) Operator's Certification: I hereby warrant and declare that the contents of this and are in all respects in proper condi-	d) Mailing Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) f) The material delivered by the Transporter has been received at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at the Disposal Facility. Signature of Disposal Facility's Authorized Agent Date of Rejection Signature of Driver Date of Rejection Perator to complete) or supervises the facility being demolished or renovated, or the demolition of the consignment are fully and accurately described above by proper shipping name authorized Agent Date Consignment are fully and accurately described above by proper shipping name authorized Agent Date Outhorized Agent Date

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Container

Billing #

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OFTHERE Ticketh 21(834

Volume



Cushomer Name	MA-BLAINE
Ticket Date	01/30/2008
Payment Type	Credit Mocount

Manual Ticketh Hauling Ticketh

Route

State Waste Code

Time

Manifest

28479

6 PHOSE Destination J.17 ---

Profile

SRIDGITSMME (FORD MOTOR COPANY/SUIL BORINGS)

Generator

Product

148-FORDMOTORC CORD MOTOR COMPANY

30.016

Scale 01/30/2008 11:25:31 Tv887 01/30/2006 11:43:15 Dut Scale Comments

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Origin

Total Tax Total Ticket

Amount

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403WM

71 Signature of Driver Date of Rejection SECTION 6 ASBESTOS (operator to complete) "Operator" is defined as the company which owns, leases, operates, controls, or supervises the facility being demollahed or renovated, or the demolition or renovation operation or both. a) Operator's Name:... c) Telephone Number: (Operator's Address: City, State, Zip . i) Recommended special handling instructions and additional information: i) Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)

Signature of Operator's Authorized Agent

1 Responsible Agency Minnesota Pollution Control Agency, 520 Lafayette Road N., St. Paul, MN 55155 Name and Address: Metro 651-296-6300 Out of State 1-800-657-3864

WHITE ... DECTINATION . VELLOW

11-005/SPRUCE

GSM-9-30

9

NON-HAZARDOUS WASTE MANIFEST

If waste is asbestos waste, complete all Sections.

////// - 28479

If waste is NOT asbestos waste, com	
	ATION (generator to complete)
LOU'S NAME: FORD WINDLE OM MANY DEGET	nerating Location (Name):
a) Generator's Address: 106 5. WISSISS 1. DITIVEL DEAD	iress:
SI. VAUC / 1/M 55/16	
	ephone Number: ()
d) Telephone Number: $(010)685-0078$	1 / 3 1
e) WASTE MANAGEMENT APPROVAL CODE SR 7025	DDI ATAMA
f) Common Name of Waste: 7/4 m) Ast g) Description of Waste: 5/4 BALL VARK	bestos ONLY - Friable; Both; % friable % non-friable
	Non-friable; N/A TYPE OF CONTAINERS
11/1/9	De of Containers: How Many TR - TRUCK DM - METAL DRUM
TonsCubic YardsOther o) Tot	tal Yards How Many DP - PLASTIC DRUM DC - CARDBOARD DRUM
i) Number of Containers:	How Many BA - BAG
p) I hereby warrant that the above named material is the same material as represented identified by the above Waste Management Code and such material was delivered to	the transporter on the shipment date referenced below.
- 1000 (BUNDUC /X	1313
Generator's Authorized Agent Name (printitype) Signature of Gene SECTION 2 TRANSPORTER 1	Fator's Authorized-Agent Shipment Date
The second secon	SECTION 3 TRANSFER FACILITY - (Complete if applicable)
a) Transporter's Name: 1900 17 17 17 1	a) Transfer Facility's Name:
b) Transporter's Address: 100 (100 100 100 100 100 100 100 100 10	b) Transfer Facility's Address:
c) Telephone Number: (************************************	c) Telephone Number: ()
	d) Vehicle License No./State:
e) Trailer or Container No.:	e) Trailer or Container No.: f) Name of Transfer Facility's
g) 4 hereby warrant that the above named and described material was received	Authorized Agent (print/fype)
from the generator on the date of receipt referenced below.	g) I hereby warrant that the above named and described material was received from the transporter on the date of receipt referenced below.
Signature of Driver Date of Receipt h) I hereby warrant that the above named and described material was delivered without incident or contamination on the date of delivery referenced below.	Signature of Transfer Facility's Authorized Agent Date of Receipt h) I hereby warrant that the above named and described material was delivered to the transporter without incident or contamination on the date of delivery referenced below.
Signature of Driver Date of Delivery SECTION 4 TRANSPORTER 2 - (Complete if applicable)	Signature of Transfer Facility's Authorized Agent Date of Delivery SECTION 5 DESTINATION (Disposal Facility)
OF A 11014 4	
a) Transporter's Name:	a) Disposal Facility's Name: SPRUCE RIDGE LANDFILL Permit No. SW-
b) Transporter's Address:	b) Physical Address: 12755 137th ST. GLENCOE, MN 55336
c) Telephone Number: ()	c) Telephone Number: (320) 864-5503
d) Vehicle License No/State:	e) Name of Disposal Facility's / / / /
e) Trailer or Container No.:	d) Maiting Address: SAME e) Name of Disposal Facility's Authorized Agent (print/type) 1) The material delivered by the Transporter has been received at the Disposal Facility
f) Name of Driver (print/type)	Facility.
on the date of receipt referenced below.	Signature of Disposal Facility's Authorized Agent Date of Receipt g) The material delivered by the Transporter has been rejected for disposal at
Signature of Driver Date of Receipt h) I hereby warrant that the above named and described material was delivered	the Disposal Facility.
on the delivery date referenced below.	Signature of Disposal Facility's Authorized Agent Date of Rejection
Signature of Driver Date of Delivery	Signature of Driver Date of Rejection
SECTION 6 ASBESTOS (op	erator to complete)
"Operator" is defined as the company which owns, leases, operates, controls, renovation operation or both.	or supervises the facility being demolished or renovated, or the demolition or
	About Montage I
	phone Number: ()
	State, Zip
d) Recommended special handling instructions and additional information:	
e) Operator's Certification: I hereby warrant and declare that the contents of this and are classified, marked, and labeled, and are in all respects in proper condi- law, regulations, ordinances, orders, rules and/or standards.	consignment are fully and accurately described above by proper shipping name lition for transport by highway according to applicable international and domestic
Operator's Name (print/type) Signature of Operator's A	•
Name and Address: Metro 651-296-6300 Out of State 1-800-657-3	tte Road N., St. Paul, MN 55155 3864