

SDG CASE NARRATIVE

TechLaw
KNM

SDG Executive Summary

This case narrative applies to samples received on July 06, 2012 through August 09, 2012. All samples were scheduled for analysis in accordance with parameters outlined on the field chain of custody record, the TriMatrix bid form, and/or oral and written correspondence between TechLaw and TriMatrix Laboratories, Inc.

Each sample receipt event was assigned a unique TriMatrix work order number. Sample receipt documentation is included in section A of this data package.

Project Technical Issues/Problems

Project-related data qualification designations and reporting conventions are included in Attachment 1 - *Project Technical Narrative*.

QA/QC Data Qualifications/Narrations

Quality assurance issues and/or quality control data qualifications and narrations related to the analysis and reporting of this SDG are presented in Attachment 2 - *Statement of Data Qualifications*. The absence of a statement page for a particular analyte group (e.g. Percent Solids) implies that no qualifying statements were generated for that analyte.

Data Review and Approval

All data was peer-reviewed by a second analyst, and then by appropriate data management staff against laboratory quality control requirements and project specifications. It was then reviewed and approved by the group supervisor/manager prior to further review by the project chemist.

Data Deliverables

This report relates only to the sample(s) as received. Estimates of analytical uncertainties for the test results contained within the report are available upon request. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC), and one or more of the following certification programs:

ACLASS DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#11-054-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#002841); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#03068); Michigan DPH (#0034); Minnesota DPH (#367345); New York ELAP (#46503); North Carolina DNRE (#659); Texas CEQ (#T104704495-12-2); Virginia DCLS (#1622); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-09-00163).

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The data deliverables, both hardcopy and/or electronic (EDD), that comprise this data package are intended to comply with the documents referenced in the introductory section of this narrative. The EDD, if requested, will be issued separately from this hardcopy report. Hold time reports for each test procedure are presented following the CLP-like forms section of this report.



Gary L. Wood, Project Chemist

Date

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207057

TriMatrix Laboratories received the cooler(s) for this work order on July 06, 2012, at 08:40am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
KAFB015	1207057-01	Water	7/5/2012
KAFB016	1207057-02	Water	7/5/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207122

TriMatrix Laboratories received the cooler(s) for this work order on July 11, 2012, at 08:45am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106042	1207122-01	Water	7/10/2012
106043	1207122-02	Water	7/10/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207213

TriMatrix Laboratories received the cooler(s) for this work order on July 17, 2012, at 08:35am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106058	1207213-01	Water	7/16/2012
106057	1207213-02	Water	7/16/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207239

TriMatrix Laboratories received the cooler(s) for this work order on July 18, 2012, at 09:00am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106107	1207239-01	Water	7/17/2012
106106	1207239-02	Water	7/17/2012
106105	1207239-03	Water	7/17/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207258

TriMatrix Laboratories received the cooler(s) for this work order on July 19, 2012, at 08:20am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106102	1207258-01	Water	7/18/2012
106031	1207258-02	Water	7/18/2012
106101	1207258-03	Water	7/18/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207292

TriMatrix Laboratories received the cooler(s) for this work order on July 20, 2012, at 08:50am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106098	1207292-01	Water	7/19/2012
106013	1207292-02	Water	7/19/2012
106026	1207292-03	Water	7/19/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207368

TriMatrix Laboratories received the cooler(s) for this work order on July 25, 2012, at 08:15am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106038	1207368-01	Water	7/24/2012
106040	1207368-02	Water	7/24/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207370

TriMatrix Laboratories received the cooler(s) for this work order on July 25, 2012, at 08:15am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106104	1207370-01	Water	7/21/2012
10623	1207370-02	Water	7/24/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1207404

TriMatrix Laboratories received the cooler(s) for this work order on July 26, 2012, at 08:00am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106063	1207404-01	Water	7/25/2012
106055	1207404-02	Water	7/25/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1208015

TriMatrix Laboratories received the cooler(s) for this work order on August 01, 2012, at 08:15am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106051	1208015-01	Water	7/31/2012
106035	1208015-02	Water	7/31/2012
106036	1208015-03	Water	7/31/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1208057

TriMatrix Laboratories received the cooler(s) for this work order on August 02, 2012, at 08:40am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106037	1208057-01	Water	8/1/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1208169

TriMatrix Laboratories received the cooler(s) for this work order on August 08, 2012, at 08:50am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106076	1208169-01	Water	8/7/2012
1064	1208169-02	Water	8/7/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1208170

TriMatrix Laboratories received the cooler(s) for this work order on August 08, 2012, at 08:50am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106100	1208170-01	Water	8/7/2012
106099	1208170-02	Water	8/7/2012

No administrative issues were encountered during the receipt and analysis of this work order.

SDG CASE NARRATIVE

Sample Receipt and Login -- Work Order: 1208192

TriMatrix Laboratories received the cooler(s) for this work order on August 09, 2012, at 08:45am. Receiving documents include field chain-of-custody (COC) record(s), sample receipt form(s), and FedEx shipping document(s). The condition of the custody seals, the type and location of the coolant, and the temperatures recorded for each cooler are presented on the TriMatrix *Sample Receiving / Log-In Checklist* provided in section A of this package. The receipt temperature of the samples was determined by using an infrared thermometer to record the temperature of three random samples of varying container types and the accompanying temperature blank, if present.

Samples were scheduled for the analyses listed on the corresponding COC form. Field IDs and assigned laboratory identifiers are presented in the table below.

Field Sample Name	Laboratory Sample ID	Matrix	Date Sampled
106066	1208192-01	Water	8/8/2012

No administrative issues were encountered during the receipt and analysis of this work order.

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Attachment 1 Project Technical Narrative

Sample Result Reporting Convention

Sample results are reported as RL "U" (e.g. 0.001 U) if the target analyte was not detected above the MDL.

If a sample for an organic analyte is reanalyzed and also reported, the second analysis includes the suffix "RE n " where n = the first, second, etc. reanalysis.

Data Qualifier Designation

If applicable, sample results are qualified with:

- a "J" flag if the analyte was detected, but the concentration is greater than the MDL and less than the RL;
- a "B" flag if the analyte was also detected at or above the RL in the associated method blank, and the sample concentration was less than five times the method blank result;
- a "E" flag if the analyte exceeded the instrument calibration range;
- an asterisk (*) if a report-generated statement of qualification applies; qualifying statements, if any, will be found in Attachment 2 to this narrative.

QC Batch and Analytical Batch Designation

A Quality Control (QC) Batch is a seven-digit number that associates all samples that have been prepared together (or analyzed together if there is no preparation). Quality Control batches are limited to no more than twenty samples, excluding batch QC (method blanks, control spikes, etc.). Some batches may contain multiple sets of method blanks (BLK) and laboratory control samples (BS), where a set of method quality control analyses were prepared in concert with each set of samples on a given day.

An Analytical Batch (or Sequence) is a seven-digit number that associates all samples analyzed as a set under one analytical run.

SDG CASE NARRATIVE

Attachment 2 Statement of Data Qualifications

EDB and DBCP by EPA Method 8011

Qualification: The quality control batch(s), associated with the following samples and analyses, do not contain an MS/MSD or MS/DUP because client specific matrix QC was not requested. An LCS and LCSD were analyzed as the measure of batch precision and accuracy.

Analysis: USEPA-8011

Sample/Analyte: 1207057-01 KAFB015
1207057-02 KAFB016
1207122-01 106042
1207122-02 106043
1207213-01 106058
1207213-02 106057
1207239-01 106107
1207239-02 106106
1207239-03 106105
1207258-01 106102
1207258-02 106031
1207258-03 106101
1207292-01 106098
1207292-02 106013
1207292-03 106026
1207368-01 106038
1207368-02 106040
1207370-01 106104
1207370-02 10623
1207404-01 106063
1207404-02 106055
1208015-01 106051
1208015-02 106035
1208015-03 106036
1208057-01 106037
1208169-01 106076
1208169-02 1064
1208170-01 106100
1208170-02 106099
1208192-01 106066

SDG CASE NARRATIVE

Attachment 2 Statement of Data Qualifications

Volatile Organic Compounds by EPA Method 8260B

Qualification: The corresponding CCV for this analytical batch had a recovery exceeding the upper control limit of the method. A positive result for this analyte in any associated samples are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

Sample/Analyte: 1207258-01 106102	Bromomethane
1207258-02 106031	Bromomethane
1207258-03 106101	Bromomethane
1207292-01 106098	Bromomethane
1207292-02 106013	Bromomethane
1207292-03 106026	Bromomethane
1207368-01 106038	Bromomethane
1207368-02 106040	Bromomethane
1207370-01 106104	Bromomethane
1207370-02 10623	Bromomethane
1207404-01 106063	Bromomethane
1207404-02 106055	Bromomethane
1208015-01 106051	Carbon Disulfide
1208015-02 106035	Carbon Disulfide
1208015-03 106036	Carbon Disulfide
1208057-01 106037	Carbon Disulfide
1208169-01 106076	Carbon Disulfide
1208169-02 1064	Carbon Disulfide
1208170-01 106100	Carbon Disulfide
1208170-02 106099	Carbon Disulfide
1208192-01 106066	Carbon Disulfide

Qualification: The corresponding CCV for this analytical batch had a recovery below the lower control limit of the method. Positive results for this analyte in any associated samples are considered estimated; non-detectable results are considered approximate.

Analysis: USEPA-8260B

Sample/Analyte: 1208169-01 106076	1,2-Dibromo-3-chloropropane
1208169-02 1064	1,2-Dibromo-3-chloropropane
1208170-01 106100	1,2-Dibromo-3-chloropropane
1208170-02 106099	1,2-Dibromo-3-chloropropane
1208192-01 106066	1,2-Dibromo-3-chloropropane

SDG CASE NARRATIVE

Attachment 2 Statement of Data Qualifications

Volatile Organic Compounds by EPA Method 8260B

Qualification: The analyte concentration in the associated MB was greater than or equal to the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:	1208015-01 106051	Acetone
	1208015-02 106035	Acetone
	1208015-03 106036	Acetone

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:	1207057-01 KAFB015	Methyl Acetate
	1207057-02 KAFB016	Methyl Acetate
	1207122-01 106042	Methyl Acetate
	1207122-02 106043	Methyl Acetate
	1207213-01 106058	Methyl Acetate
	1207213-02 106057	Methyl Acetate
	1207239-01 106107	Methyl Acetate
	1207239-02 106106	Methyl Acetate
	1207239-03 106105	Methyl Acetate
	1208015-01 106051	Methyl Acetate
	1208015-02 106035	Methyl Acetate
	1208015-03 106036	Methyl Acetate
	1208057-01 106037	Methyl Acetate
	1208169-01 106076	Methylene Chloride