SFUND RECORDS CTR
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MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Task Order Manager (TOM) RF
Quality Assurance (QA) Program, MTS-3

FROM: Doug Lindelof, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041
Technical Direction Form No.: 00105083

DATE: October 1, 2007

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Omega Chem OU2
Site Account No.:	09 BC LA02
CERCLIS ID No.:	CAD042245001
Case No.:	Not Provided
SDG No.:	IQG0879
Laboratory:	Test America Analytical Testing Corp.
Analysis:	1,2,3-Trichloropropane (1,2,3-TCP) and n-Nitrosodimethylamine (NDMA)
Samples:	4 Water Samples (see Case Summary)
Collection Date:	July 11, 2007
Reviewer:	Calvin Tanaka, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report – Tier 3

Case No.: Not Provided
SDG No.: IQG0879
Site: Omega Chem OU2
Laboratory: Test America Analytical Testing Corp.
Reviewer: Calvin Tanaka, ESAT/LDC
Date: October 1, 2007

I. CASE SUMMARY

Sample Information

Samples:	OC2-MW26D-W-5-586, OC2-MW26C-W-0-587, OC2-MW26B-W-0-588, and OC2-MW26A-W-0-589
Concentration and Matrix:	Low Concentration Water
Analysis:	1,2,3-TCP (GC/MS) and NDMA (GC/MS/MS CI)
Methods:	EPA Methods 524.2 and 1625 Modified
Collection Date:	July 11, 2007
Sample Receipt Date:	July 11, 2007
Extraction Date:	July 16 through 18, 2006
Analysis Date:	July 16 through 18, 2006

Field QC

Field Blanks (FB):	Not Provided
Trip Blanks (TB):	Not Provided
Equipment Blanks (EB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Not Provided

Laboratory QC

Method Blanks & Associated Samples:

7G16057-BLK1:	(NDMA) All samples
C7G1605-BLK1:	(1,2,3-TCP) OC2-MW26C-W-0-587 and OC2-MW26B-W-0-588
C7G1703-BLK1:	(1,2,3-TCP) OC2-MW26A-W-0-589
C7G1807-BLK1:	(1,2,3-TCP) OC2-MW26D-W-5-586

Tables

1B:	Data Qualifier Definitions for Organic Data Review

Sampling Issues

None.

Additional Comments

For the NDMA analysis, decafluorotriphenylphosphine (DFTPP) was not analyzed. Since NDMA is analyzed by the chemical ionization (CI) technique, no adverse effect is expected.

For the 1,2,3-TCP analysis, 4-bromofluorobenzene (BFB) was not analyzed. Since 1,2,3-TCP is analyzed by the selected ion monitoring (SIM) technique, no adverse effect is expected.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- EPA Method 524.2, *Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry*, Revision 4.1, 1995;
- EPA Method 1625C, *Semivolatile Organic Compounds by Isotope dilution GC/MS*, June 1989; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Holding Time/Preservation	Yes	
2.	GC/MS and GC Performance	Yes	
3.	Initial Calibration	Yes	
4.	Continuing Calibration	Yes	
5.	Laboratory Blanks	Yes	
6.	Field Blanks	N/A	
7.	Surrogate (Method 524.2)	No	A
8.	Labeled Compound (Method 1625)	No	B
9.	Matrix Spike/Matrix Spike Duplicates	Yes	
10.	Laboratory Control Samples/Duplicates	Yes	
11.	Internal Standard	Yes	
12.	Compound Identification	Yes	
13.	Compound Quantitation	Yes	
14.	System Performance	Yes	
15.	Field Duplicate Sample Analysis	N/A	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. For the 1,2,3-TCP analysis, the laboratory did not spike the samples, QC samples, and method blanks with a surrogate (see Method 524.2 Sections 3.2, 7.5, 11.1.2, and 12.1.1 and Table 1). Consequently, the extraction efficiency (surrogate recovery) cannot be evaluated. The 1,2,3-trichloropropane-d5 spiked by the laboratory was used as an internal standard.

B. For the NDMA analysis, the laboratory did not spike the samples, QC samples, and method blank with a labeled compound (i.e., surrogate; see Method 1625C Sections 6.8, 10.2.1.3, and 10.2.3.2 and Figure 4). Consequently, the extraction efficiency (surrogate recovery) cannot be evaluated. The NDMA-d6 spiked by the laboratory was used as an internal standard.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

U The analyte was analyzed for but was not detected above the reported sample quantitation limit.

L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.