



**S.S. PAPADOPULOS & ASSOCIATES, INC.**  
ENVIRONMENTAL & WATER-RESOURCE CONSULTANTS



September 15, 2010

Charles Hendrickson, Sparton Project Coordinator  
U.S. Environmental Protection Agency  
Region VI – Federal Facility Section (6PD-F)  
1445 Ross Avenue  
Dallas, TX 75202-2733  
(3 copies)

John Kieling, Sparton Project Coordinator  
New Mexico Environment Department  
Hazardous Waste Bureau  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6313

Director, Water & Waste Management Division  
New Mexico Environment Department  
1190 St. Francis Drive, 4<sup>th</sup> Floor  
Santa Fe, NM 87505

Chief, Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6313

Chief, Groundwater Quality Bureau  
New Mexico Environment Department  
1190 St. Francis Drive, 4<sup>th</sup> Floor  
Santa Fe, NM 87505

Mr. Baird Swanson  
New Mexico Environment Department  
NMED-District 1  
5500 San Antonio, NE  
Albuquerque, NM 87109

Subject: Sparton Technology, Inc. Former Coors Road Plant Remedial Program  
Sampling Results for Monitoring Well MW-80

Gentlemen:

In accordance with the revised Work Plan for the Installation of Monitoring Well MW-80 (Work Plan) submitted to the agencies by S. S. Papadopoulos & Associates, Inc. (SSP&A), on behalf of Sparton Technology, Inc., on May 25, 2010, well MW-80 was sampled by Metric Corporation (Metric) on August 18, 2010, after its installation and development. A split sample was also obtained by Mr. Baird Swanson of NMED who was present during the sampling event.

The results of this sampling event indicate that the well is free of any contaminants related to the Sparton site (TCE, DCE, or TCA). The only contaminant detected in the sample collected by Metric was toluene at a concentration of 18 µg/L. A copy of the laboratory report for this analysis, including the Chain-of-Custody Record is attached. The results of the analysis of the split sample obtained by Mr. Swanson, and which were kindly provided to us, also indicate the presence of toluene at 17.9 µg/L, and of another compound, 2-Butanone (MEK), at 1.4 µg/L.

United States Environmental Protection Agency  
New Mexico Environment department  
September 15, 2010  
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Based on these results, and in accordance with the approved revised Work Plan, the well will be equipped with a permanent submersible sampling pump, and included into the Site's quarterly sampling schedule for water levels and water quality.

I certify under penalty of law that the information presented in this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of either the person or persons who manage the system and/or the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify, to the best of my knowledge and belief, that this document is consistent with the applicable requirements of the Consent Decree entered among the New Mexico Environment Department, the U.S. Environmental Protection Agency, Sparton Technology, Inc., and others in connection with Civil Action No. CIV 97 0206 LH/JHG, United States District Court for the District of New Mexico. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

S.S. PAPANOPULOS & ASSOCIATES, INC.



Stavros S. Papadopoulos, PhD, PE, NAE  
Founder & Senior Principal

cc: Secretary, Sparton Technology, Inc., c/o Mr. Joseph S. Lerczak  
Mr. Gregory A. Slome, Senior Vice President and Chief  
Financial Officer of Sparton Corporation  
Mr. Joseph S. Lerczak, Director of Treasury and Forecasting  
and Secretary of Sparton Corporation (3 copies)  
Mr. James B. Harris, Thompson & Knight LLP  
Mr. Tony Hurst, Hurst Engineering Services (2 copies)  
Mr. Gary L. Richardson, Metric Corporation

Enclosure

COVER LETTER

Monday, August 23, 2010

Gary Richardson  
Metric Corporation  
P. O. Box 1591  
Los Lunas, NM 87031  
TEL: (505) 866-1602  
FAX

RE: Sparton

Order No.: 1008727

Dear Gary Richardson:


Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 8/18/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

  
Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901  
AZ license # AZ0682  
ORELAP Lab # NM100001  
Texas Lab# T104704424-08-TX

Gary Richardson



# Hall Environmental Analysis Laboratory, Inc.

Date: 23-Aug-10

CLIENT: Metric Corporation  
 Lab Order: 1008727  
 Project: Sparton  
 Lab ID: 1008727-01

Client Sample ID: MW-80  
 Collection Date: 8/18/2010 12:10:00 PM  
 Date Received: 8/18/2010  
 Matrix: AQUEOUS

Analyses	Result	Qual	MDL	PQL Units	DF	Date Analyzed
<b>CAS # EPA METHOD 8260B: VOLATILES</b>						<b>Analyst: HL</b>
71-43-2 Benzene	ND		0.35	1.0 µg/L	1	8/19/2010 9:34:44 PM
108-88-3 Toluene	18		0.42	1.0 µg/L	1	8/19/2010 9:34:44 PM
100-41-4 Ethylbenzene	ND		0.40	1.0 µg/L	1	8/19/2010 9:34:44 PM
1834-04-4 Methyl tert-butyl ether (MTBE)	ND		0.32	1.0 µg/L	1	8/19/2010 9:34:44 PM
95-63-6 1,2,4-Trimethylbenzene	ND		0.70	1.0 µg/L	1	8/19/2010 9:34:44 PM
108-87-8 1,3,5-Trimethylbenzene	ND		0.44	1.0 µg/L	1	8/19/2010 9:34:44 PM
107-06-2 1,2-Dichloroethane (EDC)	ND		0.34	1.0 µg/L	1	8/19/2010 9:34:44 PM
108-93-4 1,2-Dibromoethane (EDB)	ND		0.50	1.0 µg/L	1	8/19/2010 9:34:44 PM
91-20-3 Naphthalene	ND		0.37	2.0 µg/L	1	8/19/2010 9:34:44 PM
90-12-0 1-Methylnaphthalene	ND		1.0	4.0 µg/L	1	8/19/2010 9:34:44 PM
91-57-6 2-Methylnaphthalene	ND		1.0	4.0 µg/L	1	8/19/2010 9:34:44 PM
67-64-1 Acetone	ND		1.6	10 µg/L	1	8/19/2010 9:34:44 PM
108-86-1 Bromobenzene	ND		0.44	1.0 µg/L	1	8/19/2010 9:34:44 PM
75-27-4 Bromodichloromethane	ND		0.35	1.0 µg/L	1	8/19/2010 9:34:44 PM
75-25-2 Bromoform	ND		0.25	1.0 µg/L	1	8/19/2010 9:34:44 PM
74-83-9 Bromomethane	ND		0.42	1.0 µg/L	1	8/19/2010 9:34:44 PM
78-93-3 2-Butanone	ND		0.89	10 µg/L	1	8/19/2010 9:34:44 PM
75-15-0 Carbon disulfide	ND		1.5	10 µg/L	1	8/19/2010 9:34:44 PM
56-23-5 Carbon Tetrachloride	ND		0.42	1.0 µg/L	1	8/19/2010 9:34:44 PM
108-90-7 Chlorobenzene	ND		0.40	1.0 µg/L	1	8/19/2010 9:34:44 PM
75-00-3 Chloroethane	ND		0.46	2.0 µg/L	1	8/19/2010 9:34:44 PM
67-66-3 Chloroform	ND		0.40	1.0 µg/L	1	8/19/2010 9:34:44 PM
74-87-3 Chloromethane	ND		0.43	1.0 µg/L	1	8/19/2010 9:34:44 PM
95-49-8 2-Chlorotoluene	ND		0.49	1.0 µg/L	1	8/19/2010 9:34:44 PM
106-43-4 4-Chlorotoluene	ND		0.35	1.0 µg/L	1	8/19/2010 9:34:44 PM
156-59-2 cis-1,2-DCE	ND		0.41	1.0 µg/L	1	8/19/2010 9:34:44 PM
10061-01-5 cis-1,3-Dichloropropene	ND		0.39	1.0 µg/L	1	8/19/2010 9:34:44 PM
96-12-8 1,2-Dibromo-3-chloropropane	ND		0.65	2.0 µg/L	1	8/19/2010 9:34:44 PM
124-48-1 Dibromochloromethane	ND		0.36	1.0 µg/L	1	8/19/2010 9:34:44 PM
74-95-3 Dibromomethane	ND		0.35	1.0 µg/L	1	8/19/2010 9:34:44 PM
95-50-1 1,2-Dichlorobenzene	ND		0.40	1.0 µg/L	1	8/19/2010 9:34:44 PM
541-73-1 1,3-Dichlorobenzene	ND		0.43	1.0 µg/L	1	8/19/2010 9:34:44 PM
106-46-7 1,4-Dichlorobenzene	ND		0.35	1.0 µg/L	1	8/19/2010 9:34:44 PM
75-71-8 Dichlorodifluoromethane	ND		0.86	1.0 µg/L	1	8/19/2010 9:34:44 PM
75-34-3 1,1-Dichloroethane	ND		0.41	1.0 µg/L	1	8/19/2010 9:34:44 PM
75-35-4 1,1-Dichloroethene	ND		0.35	1.0 µg/L	1	8/19/2010 9:34:44 PM
78-87-5 1,2-Dichloropropane	ND		0.43	1.0 µg/L	1	8/19/2010 9:34:44 PM
142-28-9 1,3-Dichloropropane	ND		0.40	1.0 µg/L	1	8/19/2010 9:34:44 PM
594-20-7 2,2-Dichloropropane	ND		0.31	2.0 µg/L	1	8/19/2010 9:34:44 PM
563-58-6 1,1-Dichloropropene	ND		0.39	1.0 µg/L	1	8/19/2010 9:34:44 PM
87-68-3 Hexachlorobutadiene	ND		0.59	1.0 µg/L	1	8/19/2010 9:34:44 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory, Inc.

Date: 23-Aug-10

CLIENT: Metric Corporation  
 Lab Order: 1008727  
 Project: Sparton  
 Lab ID: 1008727-01

Client Sample ID: MW-80  
 Collection Date: 8/18/2010 12:10:00 PM  
 Date Received: 8/18/2010  
 Matrix: AQUEOUS

Analyses	Result	Qual	MDL	PQL Units	DF	Date Analyzed
<b>CAS # EPA METHOD 8260B: VOLATILES</b>						<b>Analyst: HL</b>
591-78-6	2-Hexanone	ND	1.4	10 µg/L	1	8/19/2010 9:34:44 PM
98-82-8	Isopropylbenzene	ND	0.40	1.0 µg/L	1	8/19/2010 9:34:44 PM
99-87-6	4-Isopropyltoluene	ND	0.38	1.0 µg/L	1	8/19/2010 9:34:44 PM
108-10-1	4-Methyl-2-pentanone	ND	1.8	10 µg/L	1	8/19/2010 9:34:44 PM
75-09-2	Methylene Chloride	ND	0.49	3.0 µg/L	1	8/19/2010 9:34:44 PM
104-51-8	n-Butylbenzene	ND	0.42	1.0 µg/L	1	8/19/2010 9:34:44 PM
103-65-1	n-Propylbenzene	ND	0.43	1.0 µg/L	1	8/19/2010 9:34:44 PM
135-98-8	sec-Butylbenzene	ND	0.41	1.0 µg/L	1	8/19/2010 9:34:44 PM
100-42-5	Styrene	ND	0.34	1.0 µg/L	1	8/19/2010 9:34:44 PM
98-06-8	tert-Butylbenzene	ND	0.45	1.0 µg/L	1	8/19/2010 9:34:44 PM
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.40	1.0 µg/L	1	8/19/2010 9:34:44 PM
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.47	2.0 µg/L	1	8/19/2010 9:34:44 PM
127-18-4	Tetrachloroethene (PCE)	ND	0.36	1.0 µg/L	1	8/19/2010 9:34:44 PM
156-60-5	trans-1,2-DCE	ND	0.43	1.0 µg/L	1	8/19/2010 9:34:44 PM
10061-02-6	trans-1,3-Dichloropropene	ND	0.44	1.0 µg/L	1	8/19/2010 9:34:44 PM
87-61-6	1,2,3-Trichlorobenzene	ND	0.55	1.0 µg/L	1	8/19/2010 9:34:44 PM
120-82-1	1,2,4-Trichlorobenzene	ND	0.45	1.0 µg/L	1	8/19/2010 9:34:44 PM
71-55-6	1,1,1-Trichloroethane	ND	0.41	1.0 µg/L	1	8/19/2010 9:34:44 PM
79-00-5	1,1,2-Trichloroethane	ND	0.34	1.0 µg/L	1	8/19/2010 9:34:44 PM
79-01-6	Trichloroethene (TCE)	ND	0.46	1.0 µg/L	1	8/19/2010 9:34:44 PM
75-69-4	Trichlorofluoromethane	ND	0.48	1.0 µg/L	1	8/19/2010 9:34:44 PM
96-18-4	1,2,3-Trichloropropane	ND	0.46	2.0 µg/L	1	8/19/2010 9:34:44 PM
75-01-4	Vinyl chloride	ND	0.33	1.0 µg/L	1	8/19/2010 9:34:44 PM
1330-20-7	Xylenes, Total	ND	1.6	1.5 µg/L	1	8/19/2010 9:34:44 PM
17060-07-0	Surr: 1,2-Dichloroethane-d4	99.3	0	54.6-141 %REC	1	8/19/2010 9:34:44 PM
460-00-4	Surr: 4-Bromofluorobenzene	110	0	60.1-133 %REC	1	8/19/2010 9:34:44 PM
1868-53-7	Surr: Dibromofluoromethane	99.4	0	78.5-130 %REC	1	8/19/2010 9:34:44 PM
2037-26-5	Surr: Toluene-d8	102	0	79.5-126 %REC	1	8/19/2010 9:34:44 PM

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

**Hall Environmental Analysis Laboratory, Inc.**

Date: 23-Aug-10

**CLIENT:** Metric Corporation  
**Lab Order:** 1008727  
**Project:** Sparton  
**Lab ID:** 1008727-02

**Client Sample ID:** Trip Blank  
**Collection Date:**  
**Date Received:** 8/18/2010  
**Matrix:** AQUEOUS

Analyses	Result	Qual	MDL	PQL Units	DF	Date Analyzed
<b>CAS # EPA METHOD 8260B: VOLATILES</b>						<b>Analyst: HL</b>
71-43-2 Benzene	ND		0.35	1.0 µg/L	1	8/19/2010 10:02:16 PM
108-88-3 Toluene	ND		0.42	1.0 µg/L	1	8/19/2010 10:02:16 PM
100-41-4 Ethylbenzene	ND		0.40	1.0 µg/L	1	8/19/2010 10:02:16 PM
1634-04-4 Methyl tert-butyl ether (MTBE)	ND		0.32	1.0 µg/L	1	8/19/2010 10:02:16 PM
95-63-6 1,2,4-Trimethylbenzene	ND		0.70	1.0 µg/L	1	8/19/2010 10:02:16 PM
108-67-8 1,3,5-Trimethylbenzene	ND		0.44	1.0 µg/L	1	8/19/2010 10:02:16 PM
107-06-2 1,2-Dichloroethane (EDC)	ND		0.34	1.0 µg/L	1	8/19/2010 10:02:16 PM
106-93-4 1,2-Dibromoethane (EDB)	ND		0.50	1.0 µg/L	1	8/19/2010 10:02:16 PM
91-20-3 Naphthalene	ND		0.37	2.0 µg/L	1	8/19/2010 10:02:16 PM
90-12-0 1-Methylnaphthalene	ND		1.0	4.0 µg/L	1	8/19/2010 10:02:16 PM
91-57-6 2-Methylnaphthalene	ND		1.0	4.0 µg/L	1	8/19/2010 10:02:16 PM
67-64-1 Acetone	ND		1.6	10 µg/L	1	8/19/2010 10:02:16 PM
108-86-1 Bromobenzene	ND		0.44	1.0 µg/L	1	8/19/2010 10:02:16 PM
75-27-4 Bromodichloromethane	ND		0.35	1.0 µg/L	1	8/19/2010 10:02:16 PM
75-25-2 Bromoform	ND		0.25	1.0 µg/L	1	8/19/2010 10:02:16 PM
74-83-9 Bromomethane	ND		0.42	1.0 µg/L	1	8/19/2010 10:02:16 PM
78-93-3 2-Butanone	ND		0.89	10 µg/L	1	8/19/2010 10:02:16 PM
75-15-0 Carbon disulfide	ND		1.5	10 µg/L	1	8/19/2010 10:02:16 PM
56-23-5 Carbon Tetrachloride	ND		0.42	1.0 µg/L	1	8/19/2010 10:02:16 PM
108-90-7 Chlorobenzene	ND		0.40	1.0 µg/L	1	8/19/2010 10:02:16 PM
75-00-3 Chloroethane	ND		0.46	2.0 µg/L	1	8/19/2010 10:02:16 PM
67-66-3 Chloroform	ND		0.40	1.0 µg/L	1	8/19/2010 10:02:16 PM
74-87-3 Chloromethane	ND		0.43	1.0 µg/L	1	8/19/2010 10:02:16 PM
95-49-8 2-Chlorotoluene	ND		0.49	1.0 µg/L	1	8/19/2010 10:02:16 PM
106-43-4 4-Chlorotoluene	ND		0.35	1.0 µg/L	1	8/19/2010 10:02:16 PM
156-59-2 cis-1,2-DCE	ND		0.41	1.0 µg/L	1	8/19/2010 10:02:16 PM
10081-01-5 cis-1,3-Dichloropropene	ND		0.39	1.0 µg/L	1	8/19/2010 10:02:16 PM
96-12-8 1,2-Dibromo-3-chloropropane	ND		0.65	2.0 µg/L	1	8/19/2010 10:02:16 PM
124-48-1 Dibromochloromethane	ND		0.36	1.0 µg/L	1	8/19/2010 10:02:16 PM
74-95-3 Dibromomethane	ND		0.35	1.0 µg/L	1	8/19/2010 10:02:16 PM
95-50-1 1,2-Dichlorobenzene	ND		0.40	1.0 µg/L	1	8/19/2010 10:02:16 PM
541-73-1 1,3-Dichlorobenzene	ND		0.43	1.0 µg/L	1	8/19/2010 10:02:16 PM
106-46-7 1,4-Dichlorobenzene	ND		0.35	1.0 µg/L	1	8/19/2010 10:02:16 PM
75-71-8 Dichlorodifluoromethane	ND		0.86	1.0 µg/L	1	8/19/2010 10:02:16 PM
75-34-3 1,1-Dichloroethane	ND		0.41	1.0 µg/L	1	8/19/2010 10:02:16 PM
75-35-4 1,1-Dichloroethene	ND		0.35	1.0 µg/L	1	8/19/2010 10:02:16 PM
78-87-5 1,2-Dichloropropane	ND		0.43	1.0 µg/L	1	8/19/2010 10:02:16 PM
142-28-9 1,3-Dichloropropane	ND		0.40	1.0 µg/L	1	8/19/2010 10:02:16 PM
594-20-7 2,2-Dichloropropane	ND		0.31	2.0 µg/L	1	8/19/2010 10:02:16 PM
563-58-6 1,1-Dichloropropene	ND		0.39	1.0 µg/L	1	8/19/2010 10:02:16 PM
87-68-3 Hexachlorobutadiene	ND		0.59	1.0 µg/L	1	8/19/2010 10:02:16 PM

**Qualifiers:** ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range  
 \* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory, Inc.

Date: 23-Aug-10

CLIENT: Metric Corporation  
 Lab Order: 1008727  
 Project: Sparton  
 Lab ID: 1008727-02

Client Sample ID: Trip Blank  
 Collection Date:  
 Date Received: 8/18/2010  
 Matrix: AQUEOUS

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: HL
591-78-6	2-Hexanone	ND	1.4	10	µg/L	1	8/19/2010 10:02:16 PM
98-82-8	Isopropylbenzene	ND	0.40	1.0	µg/L	1	8/19/2010 10:02:16 PM
99-87-6	4-Isopropyltoluene	ND	0.38	1.0	µg/L	1	8/19/2010 10:02:16 PM
108-10-1	4-Methyl-2-pentanone	ND	1.8	10	µg/L	1	8/19/2010 10:02:16 PM
75-09-2	Methylene Chloride	ND	0.49	3.0	µg/L	1	8/19/2010 10:02:16 PM
104-51-8	n-Butylbenzene	ND	0.42	1.0	µg/L	1	8/19/2010 10:02:16 PM
103-65-1	n-Propylbenzene	ND	0.43	1.0	µg/L	1	8/19/2010 10:02:16 PM
135-98-8	sec-Butylbenzene	ND	0.41	1.0	µg/L	1	8/19/2010 10:02:16 PM
100-42-5	Styrene	ND	0.34	1.0	µg/L	1	8/19/2010 10:02:16 PM
98-06-6	tert-Butylbenzene	ND	0.45	1.0	µg/L	1	8/19/2010 10:02:16 PM
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.40	1.0	µg/L	1	8/19/2010 10:02:16 PM
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.47	2.0	µg/L	1	8/19/2010 10:02:16 PM
127-18-4	Tetrachloroethene (PCE)	ND	0.35	1.0	µg/L	1	8/19/2010 10:02:16 PM
156-60-5	trans-1,2-DCE	ND	0.43	1.0	µg/L	1	8/19/2010 10:02:16 PM
10061-02-6	trans-1,3-Dichloropropene	ND	0.44	1.0	µg/L	1	8/19/2010 10:02:16 PM
87-81-6	1,2,3-Trichlorobenzene	ND	0.55	1.0	µg/L	1	8/19/2010 10:02:16 PM
120-82-1	1,2,4-Trichlorobenzene	ND	0.45	1.0	µg/L	1	8/19/2010 10:02:16 PM
71-55-6	1,1,1-Trichloroethane	ND	0.41	1.0	µg/L	1	8/19/2010 10:02:16 PM
79-00-5	1,1,2-Trichloroethane	ND	0.34	1.0	µg/L	1	8/19/2010 10:02:16 PM
79-01-6	Trichloroethene (TCE)	ND	0.46	1.0	µg/L	1	8/19/2010 10:02:16 PM
75-89-4	Trichlorofluoromethane	ND	0.48	1.0	µg/L	1	8/19/2010 10:02:16 PM
98-18-4	1,2,3-Trichloropropane	ND	0.46	2.0	µg/L	1	8/19/2010 10:02:16 PM
75-01-4	Vinyl chloride	ND	0.33	1.0	µg/L	1	8/19/2010 10:02:16 PM
1330-20-7	Xylenes, Total	ND	1.6	1.5	µg/L	1	8/19/2010 10:02:16 PM
17060-07-0	Surr: 1,2-Dichloroethane-d4	98.2	0	54.8-141	%REC	1	8/19/2010 10:02:16 PM
460-00-4	Surr: 4-Bromofluorobenzene	111	0	60.1-133	%REC	1	8/19/2010 10:02:16 PM
1868-53-7	Surr: Dibromofluoromethane	99.2	0	78.5-130	%REC	1	8/19/2010 10:02:16 PM
2037-28-5	Surr: Toluene-d8	103	0	79.5-126	%REC	1	8/19/2010 10:02:16 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 \* - Value exceeds Maximum Contaminant Level  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

## QA/QC SUMMARY REPORT

Client: Metric Corporation  
Project: Spartan

Work Order: 1008727

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R40458 Analysis Date: 8/18/2010 8:42:57 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	1.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	1.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0

## Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits



QA/QC SUMMARY REPORT

Client: Metric Corporation  
 Project: Sparton

Work Order: 1008727

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb MBLK Batch ID: R40458 Analysis Date: 8/18/2010 8:42:57 AM

4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Batch ID: R40458 Analysis Date: 8/18/2010 8:42:40 PM

Sample ID: b6 MBLK

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	1.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Metric Corporation  
 Project: Sparton

Work Order: 1008727

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b6		MBLK		Batch ID: R40458	Analysis Date: 8/18/2010 8:42:40 PM						
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	3.205	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b13		MBLK		Batch ID: R40458	Analysis Date: 8/19/2010 10:00:52 AM						

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Metric Corporation  
 Project: Sparton

Work Order: 1008727

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<b>Method: EPA Method 8260B: VOLATILES</b>											
Sample ID: b13		MBLK		Batch ID: R40458	Analysis Date: 8/19/2010 10:00:52 AM						
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

## QA/QC SUMMARY REPORT

Client: Metric Corporation  
Project: Sparton

Work Order: 1008727

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b13

MBLK

Batch ID: R40458 Analysis Date: 8/19/2010 10:00:52 AM

4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	3.105	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								

Sample ID: b18

MBLK

Batch ID: R40458 Analysis Date: 8/19/2010 9:07:10 PM

Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								

## Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Metric Corporation  
 Project: Sparton

Work Order: 1008727

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b18

MBLK

Batch ID: R40458 Analysis Date: 8/19/2010 9:07:10 PM

Chloromethane	ND	µg/L	1.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	3.334	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng Ics

LCS

Batch ID: R40458 Analysis Date: 8/18/2010 10:05:43 AM

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name METRIC

Date Received:

8/18/2010

Work Order Number 1008727

Received by: AT

Checklist completed by

Ashley M. Gallagher 8/18/10

Sample ID labels checked by:

AT  
Initials

Matrix:

Carrier name: Client drop-off

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present  Not Shipped
- Custody seals intact on sample bottles? Yes  No  N/A
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Preservation labels on bottle and cap match? Yes  No  N/A
- Water - pH acceptable upon receipt? Yes  No  N/A
- Container/Temp Blank temperature? 6.2° <6° C Acceptable  
If given sufficient time to cool.

Number of preserved bottles checked for pH: \_\_\_\_\_  
<2 >12 unless noted below.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

